• SPILLS • EXPOSURES • POISONINGS • SPILLS • EXPOSURES SHIII OS O EXTOSURES O POLSONINGS O SPILISO EXPOSURES O POLSONINGS

SAFETY DATA SHEETS

# or 760-602-8708

INFO YOU SHOULD HAVE WHEN CALLING: Product Name
 Product Number
 Manufacturer Name Manufacturer Phone Number UPC Code



A Verisk Analytics Company

3207 Grey Hawk Court, Suite 200, Carlsbad, CA 92010 T: 760-602-8700 F: 760-602-8888

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#### SAFETY DATA SHEET

#### 1. Identification

**Product identifier UNLEADED GASOLINE** 

Other means of identification

SDS number 002-GHS

**Synonyms** Regular/Premium/Midgrade - Unleaded Gasoline, RFG - Reformulated Unleaded Gasoline,

Conventional Unleaded Gasoline, Oxygenated Unleaded Gasoline, Non-Oxygenated Unleaded Gasoline, CARB (California Air Resource Board) Unleaded Gasoline, RBOB - Reformulated Blendstock for Oxygenate Blending, CBOB - Conventional Blendstock for Oxygenate Blending,

Petrol, Motor Fuel.

See section 16 for complete information.

Recommended use Motor Fuel Motor fuels.

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Valero Marketing & Supply Company and Affiliates

One Valero Way

San Antonio, TX 78269-6000

**General Assistance** 210-345-4593

E-Mail CorpHSE@valero.com Industrial Hygienist **Contact Person** 

24 Hour Emergency 866-565-5220 **Emergency Telephone** 1-800-424-9300 (CHEMTREC USA)

#### 2. Hazard(s) identification

Physical hazards Flammable liquids Category 1 **Health hazards** Skin corrosion/irritation Category 2

Germ cell mutagenicity Category 1B Carcinogenicity Category 1B Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated

exposure

Aspiration hazard Category 1

Hazardous to the aquatic environment, **Environmental hazards** 

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Extremely flammable liquid and vapor. Causes skin irritation. May cause genetic defects. May

cause cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs (blood, liver, kidney) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting

Category 2

Category 2

effects.

**UNLEADED GASOLINE** 

#### **Precautionary statement**

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting// equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only

outdoors or in a well-ventilated area. Avoid release to the environment.

**Response** If exposed or concerned: Get medical advice/attention. If inhaled: Remove person to fresh air and

keep comfortable for breathing. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water fog for extinction. Collect spillage.

**Storage** Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise None known.

classified (HNOC)

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Gasoline	86290-81-5	80-100
Toluene	108-88-3	0-30
Hexane (Other Isomers)	96-14-0	5-25
Xylene (o, m, p isomers)	1330-20-7	0-25
Octane (All isomers)	111-65-9	0-18.5
Ethanol	64-17-5	0-10
1,2,4, Trimethylbenzene	95-63-6	0-6
n-Heptane	142-82-5	1-5
Pentane	109-66-0	1-5
Cumene	98-82-8	0-5
Ethylbenzene	100-41-4	0-5
Benzene	71-43-2	0-4.9
n-Hexane	110-54-3	0-3
Cyclohexane	110-82-7	0-3

#### 4. First-aid measures

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get

medical attention.

**Skin contact** Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water.

Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs,

always seek medical attention.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention.

Ingestion Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Do not

give mouth-to-mouth resuscitation. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Never give anything by mouth to a victim who is unconscious or is

having convulsions. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

ortant Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation.

s/effects, acute and Unconsciousness. Corneal damage. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or

Unconsciousness. Corneal damage. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin). Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice.

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Conjunctivitis. Proteinuria. Defatting of the skin. Rash.

Indication of immediate medical attention and special treatment needed

General information

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

#### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

media
Specific hazards arising from

Special protective equipment and precautions for firefighters

Fire-fighting equipment/instructions

the chemical

Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use a solid water stream as it may scatter and spread fire.

Vapor may cause flash fire. Vapors can flow along surfaces to distant ignition source and flash back. Sensitive to static discharge.

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Vapors may form explosive air mixtures even at room temperature. Prevent buildup of vapors or gases to explosive concentrations. Some of these materials, if spilled, may evaporate leaving a flammable residue. Water runoff can cause environmental damage. Use compatible foam to minimize vapor generation as needed.

Specific methods
General fire hazards

Use water spray to cool unopened containers.

Extremely flammable liquid and vapor. Containers may explode when heated.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Local authorities should be advised if significant spills cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Use non-sparking tools and explosion-proof equipment.

Small Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system. Should not be released into the environment.

#### **Environmental precautions**

Gasoline may contain oxygenated blend products (Ethanol, etc.) that are soluble in water and therefore precautions should be taken to protect surface and groundwater sources from contamination. If facility or operation has an "oil or hazardous substance contingency plan", activate its procedures. Stay upwind and away from spill. Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Isolate hazard area and restrict entry to emergency crew. Extremely flammable. Review Firefighting Measures, Section 5, before proceeding with clean up. Keep all sources of ignition (flames, smoking, flares, etc.) and hot surfaces away from release. Contain spill in smallest possible area. Recover as much product as possible (e.g. by vacuuming). Stop leak if it can be done without risk. Use water spray to disperse vapors. Use compatible foam to minimize vapor generation as needed. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment or drainage systems and natural waterways. Contact fire authorities and appropriate federal, state and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, contact the National Response Center at 1-800-424-8802.

#### 7. Handling and storage

#### Precautions for safe handling

Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.

Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. The product is extremely flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. When using, do not eat, drink or smoke. Avoid release to the environment.

#### Conditions for safe storage, including any incompatibilities

Flammable liquid storage. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. The pressure in sealed containers can increase under the influence of heat. Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Туре	Value	
Benzene (CAS 71-43-2)	STEL	5 ppm	
	TWA	1 ppm	
US. OSHA Table Z-1 Limits for Air	Contaminants (29 CFR 1910.1	000)	
Components	Туре	Value	
Cumene (CAS 98-82-8)	PEL	245 mg/m3	
		50 ppm	
Cyclohexane (CAS 110-82-7)	PEL	1050 mg/m3	
		300 ppm	
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3	
		100 ppm	
n-Heptane (CAS 142-82-5)	PEL	2000 mg/m3	
		500 ppm	
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3	
		500 ppm	
Octane (All isomers) (CAS 111-65-9)	PEL	2350 mg/m3	
		500 ppm	
Pentane (CAS 109-66-0)	PEL	2950 mg/m3	
		1000 ppm	
Xylene (o, m, p isomers) (CAS 1330-20-7)	PEL	435 mg/m3	
,		100 ppm	
US. OSHA Table Z-2 (29 CFR 1910	.1000)		
Components	Туре	Value	
Benzene (CAS 71-43-2)	Ceiling	25 ppm	
	TWA	10 ppm	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
US. ACGIH Threshold Limit Value	S		
Components	Туре	Value	
1,2,4, Trimethylbenzene (CAS 95-63-6)	TWA	25 ppm	
Benzene (CAS 71-43-2)	STEL	2.5 ppm	

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Components	Туре	Value	
	TWA	0.5 ppm	
Cumene (CAS 98-82-8)	TWA	50 ppm	
Cyclohexane (CAS 110-82-7)	TWA	100 ppm	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Gasoline (CAS 86290-81-5)	STEL	500 ppm	
	TWA	300 ppm	
Hexane (Other Isomers) (CAS 96-14-0)	STEL	1000 ppm	
	TWA	500 ppm	
n-Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
Octane (All isomers) (CAS 111-65-9)	TWA	300 ppm	
Pentane (CAS 109-66-0)	TWA	600 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
Xylene (o, m, p isomers) (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
1,2,4, Trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3	
		25 ppm	
Benzene (CAS 71-43-2)	STEL	1 ppm	
	TWA	0.1 ppm	
Cumene (CAS 98-82-8)	TWA	245 mg/m3	
		50 ppm	
Cyclohexane (CAS 110-82-7)	TWA	1050 mg/m3	
Fil. 1 (0.00 0.4.47.5)	T)0/0	300 ppm	

Components	Туре	Value	
1,2,4, Trimethylbenzene (CAS 95-63-6)	TWA	125 mg/m3	
		25 ppm	
Benzene (CAS 71-43-2)	STEL	1 ppm	
	TWA	0.1 ppm	
Cumene (CAS 98-82-8)	TWA	245 mg/m3	
		50 ppm	
Cyclohexane (CAS 110-82-7)	TWA	1050 mg/m3	
		300 ppm	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
Hexane (Other Isomers) (CAS 96-14-0)	Ceiling	1800 mg/m3	
		510 ppm	
	TWA	350 mg/m3	
		100 ppm	
n-Heptane (CAS 142-82-5)	Ceiling	1800 mg/m3	
		440 ppm	
	TWA	350 mg/m3	
		85 ppm	
n-Hexane (CAS 110-54-3)	TWA	180 mg/m3	
		50 ppm	
Octane (All isomers) (CAS 111-65-9)	Ceiling	1800 mg/m3	
•		385 ppm	
	TWA	350 mg/m3	
		75 ppm	
Pentane (CAS 109-66-0)	Ceiling	1800 mg/m3	

Components	Туре	Value	
		610 ppm	
	TWA	350 mg/m3	
		120 ppm	
Toluene (CAS 108-88-3)	STEL	560 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	
Xylene (o, m, p isomers) (CAS 1330-20-7)	STEL	655 mg/m3	
,		150 ppm	
	TWA	435 mg/m3	
		100 ppm	

#### **Biological limit values**

#### **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Benzene (CAS 71-43-2)	25 μg/g	S-Phenylmerca	Creatinine	*
		pturic acid	in urine	
Ethylbenzene (CAS	0.7 g/g	Sum of	Creatinine	*
100-41-4)		mandelic acid	in urine	
		and phenylglyoxylic		
		acid		
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedi -		*
,	0	on, without		
		hydrolysis		
	0.4 mg/l	2,5-Hexanedio	Urine	*
		n, without		
		hydrolysis		
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with	Creatinine	*
		hydrolysis	in urine	
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*
Xylene (o, m, p isomers)	1.5 g/g	Methylhippuric	Creatinine	*
(CAS 1330-20-7)		acids	in urine	

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

#### US - California OELs: Skin designation

Benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

n-Hexane (CAS 110-54-3)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Cumene (CAS 98-82-8) Skin designation applies. Toluene (CAS 108-88-3) Skin designation applies.

**US - Tennesse OELs: Skin designation** 

Cumene (CAS 98-82-8) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

Benzene (CAS 71-43-2)

Can be absorbed through the skin.

Can be absorbed through the skin.

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment.

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#### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses. If splash potential exists, wear full face shield or chemical goggles.

Skin protection

Hand protection Avoid exposure - obtain special instructions before use. Wear protective gloves. Be aware that the

liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be

recommended by the glove supplier.

Other Wear chemical-resistant, impervious gloves. Full body suit and boots are recommended when

handling large volumes or in emergency situations. Flame retardant protective clothing is

recommended.

Respiratory protection Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a

> risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workplace exposure limits for product or components are exceeded, NIOSH approved equipment should be worn. Proper respirator selection should be determined by adequately trained personnel, based on the contaminants, the degree of potential exposure and published respiratory protection factors. This equipment should be available for nonroutine and emergency

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Consult supervisor for special handling instructions. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Wash hands before breaks and immediately after handling the product. Provide eyewash station and safety shower. Handle in accordance with good

industrial hygiene and safety practice.

#### 9. Physical and chemical properties

Light straw to red clear liquid with characteristic strong odor of gasoline. **Appearance** 

Liquid. Physical state **Form** Liquid.

Color Light straw to red clear.

Odor Characteristic Gasoline Odor (Strong).

**Odor threshold** Not available. Not available. pН

44.01 °F (6.67 °C) May start to solidify at this temperature. This is based on data for the following Melting point/freezing point

ingredient: Cyclohexane. Weighted average: -91.9 deg C (-133.4 deg F)

Initial boiling point and boiling

range

80.06 - 440.06 °F (26.7 - 226.7 °C)

Flash point -40.0 °F (-40.0 °C) (closed cup)

10 - 11 BuAc **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

1.3 %

Flammability limit - upper 7.1 %

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

60.8 - 101.3 kPa (20°C) Vapor pressure

3 - 4 (Air=1) Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Very slightly soluble.

Not available. Partition coefficient

(n-octanol/water)

> 500 °F (> 260 °C) **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity** 

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**UNLEADED GASOLINE** 

Other information

Flash point class Flammable IA

**VOC (Weight %)** 100 %

#### 10. Stability and reactivity

Reactivity None known.

**Chemical stability** Stable under normal temperature conditions and recommended use.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Heat, flames and sparks. Ignition sources. Contact with incompatible materials. Do not pressurize,

cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static

electricity, or other sources of ignition; they may explode and cause injury or death.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on likely routes of exposure

**Ingestion** Swallowing or vomiting of the liquid may result in aspiration into the lungs.

In high concentrations, mists/vapors may irritate throat and respiratory system and cause

coughing. May cause drowsiness or dizziness.

**Skin contact** Causes skin irritation. Prolonged contact may cause dryness of the skin.

**Eye contact** May cause eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation.

Unconsciousness. Corneal damage. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin). Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice.

Conjunctivitis. Proteinuria. Defatting of the skin. Rash.

#### Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Components	Species	Test Results

1.2.4.	Trimethy	ylbenzene (	(CAS	95-63-6)

Acute

Dermal

LD50 Rabbit > 3160 mg/kg

Inhalation

LC50 Rat > 2000 mg/l, 48 Hours

Oral

LD50 Rat 6 g/kg

Benzene (CAS 71-43-2)

Acute

Oral

LD50 Rat 3306 mg/kg

Cumene (CAS 98-82-8)

Acute

Inhalation

LC50 Mouse 2000 mg/l, 7 Hours

Rat 8000 mg/l, 4 Hours

Oral LD50

Rat 1400 mg/kg

Cyclohexane (CAS 110-82-7)

Acute

Oral

LD50 Rat 12705 mg/kg

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Components **Species Test Results** Ethanol (CAS 64-17-5) Acute Inhalation LC50 Rat 30000 mg/m3 Ethylbenzene (CAS 100-41-4) Acute Dermal LD50 Rabbit > 5000 mg/kg Oral LD50 Rat 5.46 g/kg n-Heptane (CAS 142-82-5) Acute Inhalation LC50 Rat 103 mg/l, 4 Hours n-Hexane (CAS 110-54-3) Acute Oral LD50 Rat 28710 mg/kg Octane (All isomers) (CAS 111-65-9) Acute Inhalation LC50 Rat 118 mg/l, 4 Hours Pentane (CAS 109-66-0) **Acute** Inhalation LC50 Rat 364 mg/l, 4 Hours Toluene (CAS 108-88-3) Acute Dermal LD50 Rabbit 14.1 ml/kg Inhalation LC50 Rat 8000 mg/l, 4 Hours Oral LD50 Rat 2.6 g/kg Xylene (o, m, p isomers) (CAS 1330-20-7) Acute Oral LD50 Rat 4300 mg/kg Causes skin irritation. Skin corrosion/irritation Serious eye damage/eye Based on available data, the classification criteria are not met. irritation Respiratory or skin sensitization Respiratory sensitization Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Skin sensitization This substance may have a potential for sensitization which may provoke an allergic reaction among sensitive individuals. May cause genetic defects. Germ cell mutagenicity In in-vitro experiments, neither benzene, toluene nor xylene changed the number of sister-chromatid exchanges (SCEs) or the number of chromosomal aberrations in human lymphocytes. However, toluene and xylene caused a significant cell growth inhibition which was not observed with benzene in the same concentrations. In in-vivo experiments, toluene changed the number of sister-chromatid exchanges (SCEs) in human lymphocytes. Toluene may cause heritable genetic damage.

**Carcinogenicity** May cause cancer.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Benzene (CAS 71-43-2) 1 Carcinogenic to humans.

Cumene (CAS 98-82-8)

Ethylbenzene (CAS 100-41-4)

Gasoline (CAS 86290-81-5)

2B Possibly carcinogenic to humans.
2B Possibly carcinogenic to humans.
2B Possibly carcinogenic to humans.

Toluene (CAS 108-88-3)

Xylene (o, m, p isomers) (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.
3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Benzene (CAS 71-43-2) Known To Be Human Carcinogen.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Benzene (CAS 71-43-2) Cancer

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

Benzene, xylene and toluene have demonstrated animal effects of reproductive toxicity. Animal studies of benzene have shown testicular effects, alterations in reproductive cycles, chromosomal aberrations and embryo/fetotoxicity. Ethanol has demonstrated human effects of reproductive toxicity. Can cause adverse reproductive effects - such as birth defects, miscarriages, or infertility. Avoid exposure to women during early pregnancy. Avoid contact during pregnancy/while nursing.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

May cause damage to the following organs through prolonged or repeated exposure: Blood. Kidneys. Liver.

Aspiration hazard

May be fatal if swallowed and enters airways.

**Chronic effects** 

Repeated exposure of laboratory animals to high concentrations of gasoline vapors has caused kidney damage and cancer in rats and cancer in mice. Gasoline was evaluated for genetic activity in assays using microbial cells, cultured mammalian cells and rat bone marrow cells. The results were all negative so gasoline was considered nonmutagenic under these conditions. Overexposure to this product or its components has been suggested as a cause of liver abnormalities in laboratory animals and humans. Lifetime studies by the American Petroleum Institute have shown that kidney damage and kidney cancer can occur in male rats after prolonged inhalation exposures at elevated concentrations of total gasoline. Kidneys of mice and female rats were unaffected. The U.S. EPA Risk Assessment Forum has concluded that the male rat kidney tumor results are not relevant for humans. Total gasoline exposure also produced liver tumors in female mice only. The implication of these data for humans has not been determined.

**Further information** Symptoms may be delayed.

#### 12. Ecological information

**Ecotoxicity**Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Components		Species	Test Results
1,2,4, Trimethylbenzen	ne (CAS 95-63-6)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	7.19 - 8.28 mg/l, 96 hours
Benzene (CAS 71-43-2	2)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	8.76 - 15.6 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	7.2 - 11.7 mg/l, 96 hours
Cumene (CAS 98-82-8	3)		
Aquatic			
Crustacea	EC50	Brine shrimp (Artemia sp.)	3.55 - 11.29 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	2.7 mg/l, 96 hours
Cyclohexane (CAS 110	0-82-7)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	3.961 - 5.181 mg/l, 96 hours
		Striped bass (Morone saxatilis)	8.3 mg/l, 96 hours

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Components		Species	Test Results
Ethanol (CAS 64-17-5)			
Aquatic			
Algae	EC50	Freshwater algae	275 mg/l, 72 Hours
		Marine water algae	1970 mg/l
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
		Freshwater fish	11200 mg/l, 96 Hours
Invertebrate	EC50	Freshwater invertebrate	5012 mg/l, 48 Hours
		Marine water invertebrate	857 mg/l, 48 Hours
Ethylbenzene (CAS 100-41-	4)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1 - 4 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4 mg/l, 96 hours
n-Heptane (CAS 142-82-5)			
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	4924 mg/l, 96 hours
n-Hexane (CAS 110-54-3)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	2.101 - 2.981 mg/l, 96 hours
Toluene (CAS 108-88-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Pink salmon (Oncorhynchus gorbuscha)	6.86 - 8.48 mg/l, 96 hours
Xylene (o, m, p isomers) (CA	AS 1330-20-7)		
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8 mg/l, 96 Hours
sistence and degradability	Not available.		

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

Benzene (CAS 71-43-2)	2.13
Cumene (CAS 98-82-8)	3.66
Cyclohexane (CAS 110-82-7)	3.44
Ethanol (CAS 64-17-5)	-0.31
Ethylbenzene (CAS 100-41-4)	3.15
Hexane (Other Isomers) (CAS 96-14-0)	3.6
Octane (All isomers) (CAS 111-65-9)	5.18
Pentane (CAS 109-66-0)	3.39
Toluene (CAS 108-88-3)	2.73
Xylene (o, m, p isomers) (CAS 1330-20-7)	3.2
n-Heptane (CAS 142-82-5)	4.66
n-Hexane (CAS 110-54-3)	3.9

Mobility in soilNot available.Other adverse effectsNot available.

#### 13. Disposal considerations

**Disposal instructions**Dispose in accordance with all applicable regulations. This material and its container must be

disposed of as hazardous waste. Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate

ponds, waterways or ditches with chemical or used container.

Hazardous waste code D001: Waste Flammable material with a flash point <140 °F

D018: Waste Benzene

#### **US RCRA Hazardous Waste U List: Reference**

Benzene (CAS 71-43-2) U019 U055 Cumene (CAS 98-82-8) Cyclohexane (CAS 110-82-7) U056 Toluene (CAS 108-88-3) U220 Xylene (o, m, p isomers) (CAS 1330-20-7) U239

Waste from residues / unused

Dispose of in accordance with local regulations.

Offer rinsed packaging material to local recycling facilities. Contaminated packaging

#### 14. Transport information

DOT

products

**UN** number UN1203 Gasoline **UN** proper shipping name

Transport hazard class(es)

**Class** 3 Subsidiary risk П Packing group **Environmental hazards** 

> Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

139, B33, B101, T8 Special provisions

150 Packaging exceptions 202 Packaging non bulk Packaging bulk 242

IATA

**UN** number UN1203 **UN proper shipping name** Gasoline

Transport hazard class(es)

**Class** 3 Subsidiary risk 3 Label(s) Packing group Ш **Environmental hazards** Yes 3H **ERG Code** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

UN1203 **UN** number **UN** proper shipping name Gasoline

Transport hazard class(es)

Class 3 Subsidiary risk 3 Label(s) Packing group Ш **Environmental hazards** 

Marine pollutant Yes F-E. S-E **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Not applicable. However, this product is a liquid and if transported in bulk covered under

MARPOL 73/78, Annex I. Annex II of MARPOL 73/78 and

the IBC Code

#### 15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US** federal regulations

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

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TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Benzene (CAS 71-43-2) Cancer

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Blood Aspiration Skin Eye

Respiratory tract irritation

Flammability

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Benzene (CAS 71-43-2)	LISTED
Cumene (CAS 98-82-8)	LISTED
Cyclohexane (CAS 110-82-7)	LISTED
Ethanol (CAS 64-17-5)	LISTED
Ethylbenzene (CAS 100-41-4)	LISTED
Gasoline (CAS 86290-81-5)	LISTED
Hexane (Other Isomers) (CAS 96-14-0)	LISTED
n-Heptane (CAS 142-82-5)	LISTED
n-Hexane (CAS 110-54-3)	LISTED
Octane (All isomers) (CAS 111-65-9)	LISTED
Pentane (CAS 109-66-0)	LISTED
Toluene (CAS 108-88-3)	LISTED
Xylene (o, m, p isomers) (CAS 1330-20-7)	LISTED

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Toluene	108-88-3	0-30	
Xylene (o, m, p isomers)	1330-20-7	0-25	
1,2,4, Trimethylbenzene	95-63-6	0-6	
Cumene	98-82-8	0-5	
Ethylbenzene	100-41-4	0-5	
Benzene	71-43-2	0-4.9	
n-Hexane	110-54-3	0-3	
Cyclohexane	110-82-7	0-3	

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Benzene (CAS 71-43-2) Cumene (CAS 98-82-8) Ethylbenzene (CAS 100-41-4) n-Hexane (CAS 110-54-3) Toluene (CAS 108-88-3)

Xylene (o, m, p isomers) (CAS 1330-20-7)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Pentane (CAS 109-66-0)

Safe Drinking Water Act Not regulated.

(SDWA)

#### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Toluene (CAS 108-88-3) 6594

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Toluene (CAS 108-88-3) 35 % weight/volumn

**DEA Exempt Chemical Mixtures Code Number** 

Toluene (CAS 108-88-3) 594

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#### **US. Massachusetts RTK - Substance List**

1,2,4, Trimethylbenzene (CAS 95-63-6)

Benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

Cyclohexane (CAS 110-82-7)

Ethanol (CAS 64-17-5)

Ethylbenzene (CAS 100-41-4)

Hexane (Other Isomers) (CAS 96-14-0)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

Octane (All isomers) (CAS 111-65-9)

Pentane (CAS 109-66-0)

Toluene (CAS 108-88-3)

Xylene (o, m, p isomers) (CAS 1330-20-7)

#### US. New Jersey Worker and Community Right-to-Know Act

1,2,4, Trimethylbenzene (CAS 95-63-6)

Benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

Cyclohexane (CAS 110-82-7)

Ethanol (CAS 64-17-5)

Ethylbenzene (CAS 100-41-4)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

Octane (All isomers) (CAS 111-65-9)

Pentane (CAS 109-66-0)

Toluene (CAS 108-88-3)

Xylene (o, m, p isomers) (CAS 1330-20-7)

#### US. Pennsylvania Worker and Community Right-to-Know Law

1,2,4, Trimethylbenzene (CAS 95-63-6)

Benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

Cyclohexane (CAS 110-82-7)

Ethanol (CAS 64-17-5)

Ethylbenzene (CAS 100-41-4)

Gasoline (CAS 86290-81-5)

Hexane (Other Isomers) (CAS 96-14-0)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

Octane (All isomers) (CAS 111-65-9)

Pentane (CAS 109-66-0)

Toluene (CAS 108-88-3)

Xylene (o, m, p isomers) (CAS 1330-20-7)

#### **US. Rhode Island RTK**

1,2,4, Trimethylbenzene (CAS 95-63-6)

Benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

Cyclohexane (CAS 110-82-7)

Ethylbenzene (CAS 100-41-4)

n-Hexane (CAS 110-54-3)

Pentane (CAS 109-66-0)

Toluene (CAS 108-88-3)

Xylene (o, m, p isomers) (CAS 1330-20-7)

#### **US. California Proposition 65**

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Benzene (CAS 71-43-2)

Cumene (CAS 98-82-8)

Ethylbenzene (CAS 100-41-4)

Toluene (CAS 108-88-3)

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

Yes

Yes

Philippine Inventory of Chemicals and Chemical Substances

country(s).

**Philippines** 

#### 16. Other information, including date of preparation or last revision

Issue date13-May-2013Revision date23-May-2014

Version # 03

Further information HMIS® is a registered trade and service mark of the NPCA.

**NFPA Ratings** 



References ACGIH

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

**Disclaimer** This material Safety Data Sheet (SDS) was prepared in accordance with 29 CFR 1910.1200 by

Valero Marketing & Supply Co., ("VALERO"). VALERO does not assume any liability arising out of product use by others. The information, recommendations, and suggestions presented in this SDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use, the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of

use, or because of applicable laws or government regulations.

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### Safety Data Sheet



#### **SECTION 1 PRODUCT AND COMPANY IDENTIFICATION**

#### Delo 100 Motor Oil SAE 40

Product Use: Heavy Duty Motor Oil Product Number(s): 219932, 222404

**Company Identification** Chevron Products Company a division of Chevron U.S.A. Inc. 6001 Bollinger Canyon Rd. San Ramon, CA 94583 United States of America www.chevronlubricants.com

#### **Transportation Emergency Response**

CHEMTREC: (800) 424-9300 or (703) 527-3887

**Health Emergency** 

Chevron Emergency & Information Center: Located in the USA. International collect calls accepted. (800)

231-0623 or (510) 231-0623

**Product Information** 

email: lubemsds@chevron.com

Product Information: 1 (800) 582-3835, LUBETEK@chevron.com

#### **SECTION 2 HAZARDS IDENTIFICATION**

#### **CLASSIFICATION:**

Not classified as hazardous according to 29 CFR 1910.1200 (2012).

#### HAZARDS NOT OTHERWISE CLASSIFIED: Not Applicable

#### SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Distillates, hydrotreated heavy paraffinic	64742-54-7	70 - 99 %weight

#### SECTION 4 FIRST AID MEASURES

#### **Description of first aid measures**

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

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**Inhalation:** No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

#### Most important symptoms and effects, both acute and delayed IMMEDIATE HEALTH EFFECTS

**Eye:** Not expected to cause prolonged or significant eye irritation.

**Skin:** Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

**Ingestion:** Not expected to be harmful if swallowed.

**Inhalation:** Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

#### **DELAYED OR OTHER HEALTH EFFECTS:** Not classified

Indication of any immediate medical attention and special treatment needed Not Applicable

#### **SECTION 5 FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

#### PROTECTION OF FIRE FIGHTERS:

**Fire Fighting Instructions:** This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

**Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Boron, Nitrogen.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

**Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

**Reporting:** Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

#### **SECTION 7 HANDLING AND STORAGE**

**General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

**Precautionary Measures:** Keep out of the reach of children.

**Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating

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an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

#### **SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment (PPE). If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, refer to PPE information below.

Factors that affect PPE include, but are not limited to: properties of the chemical, other chemicals which may contact the same PPE, physical requirements (fit & sizing, cut/puncture protection, dexterity, thermal protection, etc.), and potential allergic reactions to the PPE material. It is the responsibility of the user to read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate CEN standards.

#### **ENGINEERING CONTROLS:**

Use in a well-ventilated area.

#### PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

**Skin Protection:** Wear chemical personal protective equipment (PPE) to prevent skin contact. Selection of chemical protective clothing should be performed by an Occupational Hygienist or Safety Professional and be based upon applicable standards (ASTM F739 or EN 374). Using chemical PPE depends upon operations conducted and may include chemical gloves, boots, chemical apron, chemical suit, and complete facial protection. Refer to PPE manufacturers to obtain breakthrough time information to determine how long PPE can be used before it needs to be replaced. Unless specific glove manufacturer data indicates otherwise, the below table is based upon available industry data to assist in the glove selection process and is intended to be used as reference only.

Chemical Glove Material	Thickness (mm)	Typical Breakthrough Time (minutes)
Butyl	0.7	120
Nitrile	0.8	240
Viton Butyl	0.3	240

**Respiratory Protection:** No respiratory protection is normally required.

If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

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#### **Occupational Exposure Limits:**

Component	Agency	Form	TWA	STEL	Ceiling	Notation
Distillates, hydrotreated	ACGIH	Inhalable	5 mg/m3			
heavy paraffinic		fraction				
Distillates, hydrotreated	ACGIH		5 mg/m3	10 mg/m3		
heavy paraffinic						
Distillates, hydrotreated	OSHA Z-1		5 mg/m3		-	-
heavy paraffinic						

Consult local authorities for appropriate values.

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Attention: the data below are typical values and do not constitute a specification.

Color: Brown to yellow Physical State: Liquid Odor: Petroleum odor

Odor Threshold: No data available

pH: Not Applicable

Vapor Pressure: No data available Vapor Density (Air = 1): No data available

Initial Boiling Point: No data available

**Solubility:** Soluble in hydrocarbons; insoluble in water

Freezing Point: No data available Melting Point: No data available

**Density:** 0.8883 kg/l - 0.8892 kg/l @ 15°C (59°F) (Typical)

**Viscosity:** 131 mm2/s @ 40°C (104°F) (Typical)

**Evaporation Rate:** No data available

Decomposition temperature: No data available
Octanol/Water Partition Coefficient: No data available

**FLAMMABLE PROPERTIES:** 

Flammability (solid, gas): Not Applicable

**Flashpoint:** (Cleveland Open Cup) 180 °C (356 °F) (Minimum)

Autoignition: No data available

Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not

Applicable

#### SECTION 10 STABILITY AND REACTIVITY

**Reactivity:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates,

peroxides, etc.

Chemical Stability: This material is considered stable under normal ambient and anticipated storage

and handling conditions of temperature and pressure.

Incompatibility With Other Materials: Not applicable

**Hazardous Decomposition Products:** None known (None expected) **Hazardous Polymerization:** Hazardous polymerization will not occur.

#### SECTION 11 TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

**Serious Eye Damage/Irritation:** The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

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Skin Corrosion/Irritation: The material is not considered a skin irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Skin Sensitization:** The material is not considered a skin sensitizer. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Dermal Toxicity: The material is not considered a dermal toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The material is not considered an oral toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: The material is not considered an inhalation toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components. Acute Toxicity Estimate: Not Determined

Germ Cell Mutagenicity: The material is not considered a mutagen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Carcinogenicity: The material is not considered a carcinogen. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Reproductive Toxicity: The material is not considered a reproductive toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Single Exposure: The material is not considered a target organ toxicant (single exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

Specific Target Organ Toxicity - Repeated Exposure: The material is not considered a target organ toxicant (repeated exposure). The product has not been tested. The statement is based on evaluation of data for similar materials or product components.

**Aspiration Hazard:** The material is not considered an aspiration hazard.

#### ADDITIONAL TOXICOLOGY INFORMATION:

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

#### **SECTION 12 ECOLOGICAL INFORMATION**

#### **ECOTOXICITY**

This material is not expected to be harmful to aquatic organisms.

The product has not been tested. The statement has been derived from the properties of the individual components.

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#### **MOBILITY**

No data available.

#### PERSISTENCE AND DEGRADABILITY

This material is not expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

#### POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.

Octanol/Water Partition Coefficient: No data available

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

#### **SECTION 14 TRANSPORT INFORMATION**

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: NOT REGULATED AS HAZARDOUS MATERIAL UNDER 49 CFR

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

#### **SECTION 15 REGULATORY INFORMATION**

EPCRA 311/312 CATEGORIES: Not applicable

#### **REGULATORY LISTS SEARCHED:**

 01-1=IARC Group 1
 05=MA RTK

 01-2A=IARC Group 2A
 06=NJ RTK

 01-2B=IARC Group 2B
 07=PA RTK

 02=NTP Carcinogen
 08-1=TSCA 5(e)

 03=EPCRA 313
 08-2=TSCA 12(b)

04=CA Proposition 65

The following components of this material are found on the regulatory lists indicated. Distillates, hydrotreated heavy paraffinic 05, 07

#### **CHEMICAL INVENTORIES:**

 Revision Number: 10
 6 of 7
 Delo 100 Motor Oil SAE 40

 Revision Date: May 02, 2023
 SDS: 7329

All components comply with the following chemical inventory requirements: AIIC (Australia), DSL (Canada), ENCS (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States).

#### **NEW JERSEY RTK CLASSIFICATION:**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Motor oil)

#### **SECTION 16 OTHER INFORMATION**

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0

**HMIS RATINGS:** Health: 0 Flammability: 1 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

**REVISION STATEMENT:** SECTION 03 - Composition information was modified.

SECTION 08 - Eye/Face Protection information was modified.

SECTION 08 - General Considerations information was modified.

SECTION 08 - Occupational Exposure Limit Table information was modified.

SECTION 08 - Personal Protective Equipment List information was deleted.

SECTION 08 - Personal Protective Equipment information was added.

SECTION 08 - Skin Protection information was modified.

SECTION 15 - Regulatory Information information was added.

Revision Date: May 02, 2023

#### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental	IMO/IMDG - International Maritime Dangerous Goods
Industrial Hygienists	Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on	OSHA - Occupational Safety and Health Administration
Cancer	
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron Technical Center, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

 Revision Number:
 10
 7 of 7
 Delo 100 Motor Oil SAE 40

 Revision Date:
 May 02, 2023
 SDS: 7329

## VALERO

#### SAFETY DATA SHEET

#### 1. Identification

Product identifier DIESEL FUELS

Other means of identification

SDS number 102-GHS

Synonyms Diesel Fuels All Grades, Diesel Fuel No.2, Fuel Oil No.2, High Sulfur Diesel Fuel, Low Sulfur

Diesel Fuel, Ultra Low Sulfur Diesel Fuel, CARB (California Air Resource Board) Diesel Fuel, Off-Road Diesel Fuel, Dyed Diesel Fuel, X Grade Diesel Fuel, X-1 Diesel Fuel, R5 ULSD, B5 ULS

D See section 16 for complete information.

Recommended use Motor Fuel

Refinery feedstock.

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Valero Marketing & Supply Company and Affiliates

One Valero Way

San Antonio, TX 78269-6000

General Assistance 210-345-4593

E-Mail CorpHSE@valero.com
Contact Person Industrial Hygienist

**Emergency Telephone** 24 Hour Emergency 866-565-5220

1-800-424-9300 (CHEMTREC USA)

#### 2. Hazard(s) identification

 Physical hazards
 Flammable liquids
 Category 3

 Health hazards
 Acute toxicity, inhalation
 Category 4

 Skin corrosion/irritation
 Category 2

 Consists a principle.
 Contagony 3

Carcinogenicity Category 2
Reproductive toxicity Category 2
Specific target organ toxicity, repeated Category 2

exposure

Aspiration hazard Category 1

**Environmental hazards** Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. Suspected of causing

cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs (blood, thymus, liver) through prolonged or repeated exposure. May be fatal if swallowed and enters

Category 2

airways.

**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Do not breathe mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use only

outdoors or in a well-ventilated area.

Response

If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If exposed or concerned: Get medical advice/attention. If swallowed: Immediately call a poison center/doctor. Take off contaminated clothing and wash before reuse. In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.

Storage

Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal** 

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%	
Fuels, diesel, no. 2	68476-34-6	85 - 100	
Biodiesel - Fatty acid methyl esters	67762-38-3	0 - 10	
Fuels, diesel, C9-18-alkane branched and linear	1159170-26-9	0 - 5	
n-Nonane	111-84-2	1 - 3	
Octane (All isomers)	111-65-9	1 - 2	
Hexane (Other isomers)	96-14-0	0 - 1	
Naphthalene	91-20-3	0 - 1	
n-Heptane	142-82-5	0 - 1	
n-Hexane	110-54-3	0 - 1	

#### 4. First-aid measures

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get

medical attention.

Skin contact

Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs, always seek medical attention.

Eve contact

Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

Ingestion

Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Do not give mouth-to-mouth resuscitation. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. Unconsciousness. Corneal damage. Narcosis. Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice. Conjunctivitis. Proteinuria. Defatting of the skin. Rash. The toxicological properties of this product have not been thoroughly investigated. Use appropriate precautions.

Hydrogen sulfide, a highly toxic gas, may be present. Signs and symptoms of overexposure to hydrogen sulfide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain in the nose, and loss of consciousness. Odor does not provide a reliable indicator of the presence of hazardous levels in the atmosphere.

Indication of immediate medical attention and special treatment needed **General information** 

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed. The toxicological properties of this material have not been fully investigated.

If exposed or concerned: get medical attention/advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

#### 5. Fire-fighting measures

Suitable extinguishing media

Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire-fighting equipment/instructions

Do not use a solid water stream as it may scatter and spread fire.

The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Thermal decomposition or combustion may liberate toxic gases or fumes.

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Water runoff can cause environmental damage. Use compatible foam to minimize vapor generation as needed.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Local authorities should be advised if significant spills cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Local authorities should be advised if significant spillages cannot be contained. Stop leak if you can do so without risk. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Use non-sparking tools and explosion-proof equipment.

Small Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system. Should not be released into the environment.

Clean up in accordance with all applicable regulations.

#### **Environmental precautions**

If facility or operation has an "oil or hazardous substance contingency plan", activate its procedures. Stay upwind and away from spill. Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Isolate hazard area and restrict entry to emergency crew. Flammable. Review Firefighting Measures, Section 5, before proceeding with clean up. Keep all sources of ignition (flames, smoking, flares, etc.) and hot surfaces away from release. Contain spill in smallest possible area. Recover as much product as possible (e.g. by vacuuming). Stop leak if it can be done without risk. Use water spray to disperse vapors. Use compatible foam to minimize vapor generation as needed. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment or drainage systems and natural waterways. Contact fire authorities and appropriate federal, state and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, contact the National Response Center at 1-800-424-8802. For highway or railways spills, contact Chemtrec at 1-800-424-9300.

#### 7. Handling and storage

Precautions for safe handling

Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.

Wear personal protective equipment. Avoid breathing mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Avoid prolonged exposure. Use only with adequate ventilation. Wash thoroughly after handling. The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. When using, do not eat, drink or smoke. Avoid release to the environment.

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Flammable liquid storage. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. The pressure in sealed containers can increase under the influence of heat. Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3	
		10 ppm	
n-Heptane (CAS 142-82-5)	PEL	2000 mg/m3	
		500 ppm	
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3	
		500 ppm	
Octane (All isomers) (CAS 111-65-9)	PEL	2350 mg/m3	
•		500 ppm	

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Fuels, diesel, no. 2 (CAS 68476-34-6)	TWA	100 mg/m3	Inhalable fraction and vapor.
Hexane (Other isomers) (CAS 96-14-0)	STEL	1000 ppm	
·	TWA	500 ppm	
Naphthalene (CAS 91-20-3)	STEL	15 ppm	
	TWA	10 ppm	
n-Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
n-Nonane (CAS 111-84-2)	TWA	200 ppm	
Octane (All isomers) (CAS 111-65-9)	TWA	300 ppm	

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Туре	Value	
Hexane (Other isomers) (CAS 96-14-0)	Ceiling	1800 mg/m3	
		510 ppm	
	TWA	350 mg/m3	
		100 ppm	
Naphthalene (CAS 91-20-3)	STEL	75 mg/m3	
		15 ppm	
	TWA	50 mg/m3	
		10 ppm	
n-Heptane (CAS 142-82-5)	Ceiling	1800 mg/m3	
		440 ppm	
	TWA	350 mg/m3	
		85 ppm	
n-Hexane (CAS 110-54-3)	TWA	180 mg/m3	
		50 ppm	
n-Nonane (CAS 111-84-2)	TWA	1050 mg/m3	
		200 ppm	
Octane (All isomers) (CAS 111-65-9)	Ceiling	1800 mg/m3	
		385 ppm	
	TWA	350 mg/m3	
		75 ppm	

#### **Biological limit values**

#### **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time	
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedio n, without hydrolysis	Urine	*	
	0.4 mg/l	2,5-Hexanedi - on, without hydrolysis		*	

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

US - California OELs: Skin designation

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

Fuels, diesel, no. 2 (CAS 68476-34-6)

Naphthalene (CAS 91-20-3)

n-Hexane (CAS 110-54-3)

Can be absorbed through the skin.

Can be absorbed through the skin.

Can be absorbed through the skin.

Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure

limits. Use explosion-proof equipment.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses. If splash potential exists, wear full face shield or chemical goggles.

Skin protection

**Hand protection** Wear chemical-resistant, impervious gloves. Suitable gloves can be recommended by the glove

supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Other Full body suit and boots are recommended when handling large volumes or in emergency

situations. Flame retardant protective clothing is recommended.

risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workplace exposure limits for product or components are exceeded, NIOSH approved equipment should be worn. Proper respirator selection should be determined by adequately trained personnel, based on the contaminants, the degree of potential exposure and published respiratory protection factors. This equipment should be available for nonroutine and emergency

use.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Consult supervisor for special handling instructions. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Wash hands before breaks and immediately after handling the product. Provide eyewash station and safety shower. Handle in accordance with good

industrial hygiene and safety practice.

#### 9. Physical and chemical properties

**Appearance** Liquid (may be dyed red).

Physical state
Form
Color
Clear. Straw.

Odor
Kerosene (strong).

Odor threshold
Not available.

PH
Not available.

Melting point/freezing point -60.07 °F (-51.15 °C) Estimated Initial boiling point and boiling 325 - 700 °F (162.78 - 371.11 °C)

range Flash point

> 100.0 °F (> 37.8 °C) Closed Cup

**Evaporation rate** 0.02

Flammability (solid, gas) Not available.

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Upper/lower flammability or explosive limits

Flammability limit - lower 0.4 %

(%)

Flammability limit - upper

(%)

8 %

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure < 1 mm Hg (20°C)

Vapor density 3 (Air = 1) Relative density 0.82 - 0.87 Relative density temperature 60 °F (15.56 °C)

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 494.96 °F (257.2 °C)

**Decomposition temperature** Not available. **Viscosity** 2 - 4.5 mm<sup>2</sup>/s

10. Stability and reactivity

**Reactivity** Stable at normal conditions.

Chemical stability Stable under normal temperature conditions and recommended use.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Heat, flames and sparks. Ignition sources. Contact with incompatible materials. Do not pressurize,

cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static

electricity, or other sources of ignition; they may explode and cause injury or death.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

#### 11. Toxicological information

Information on likely routes of exposure

**Ingestion** May be fatal if swallowed and enters airways.

Inhalation Harmful if inhaled. In high concentrations, vapors and spray mists are narcotic and may cause

headache, fatigue, dizziness and nausea.

Skin contact Causes skin irritation.

Eye contact May cause eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation.

Unconsciousness. Corneal damage. Narcosis. Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice. Conjunctivitis. Proteinuria. Defatting of the skin. Rash. The toxicological properties of this product have not been thoroughly investigated. Use appropriate

precautions.

Information on toxicological effects

Acute toxicity Harmful if inhaled. Harmful: may cause lung damage if swallowed. The toxicological properties of

this material have not been fully investigated.

Components Species Test Results

Fuels, diesel, no. 2 (CAS 68476-34-6)

Acute Inhalation

LC50 Rat 4.1 mg/l, 4 hours

DIESEL FUELS

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**Species Test Results** Components Naphthalene (CAS 91-20-3) Acute Dermal LD50 Rabbit > 2 g/kgOral LD50 Rat 490 mg/kg n-Heptane (CAS 142-82-5) Acute Inhalation LC50 Rat 103 mg/l, 4 Hours n-Hexane (CAS 110-54-3) Acute Oral LD50 Rat 28710 mg/kg n-Nonane (CAS 111-84-2) Acute Inhalation LC50 Rat 3200 mg/l, 4 Hours Octane (All isomers) (CAS 111-65-9) Acute

Inhalation

LC50 Rat 118 mg/l, 4 Hours

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Respiratory sensitization Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Skin sensitization Germ cell mutagenicity Based on available data, the classification criteria are not met.

Suspected of causing cancer. Carcinogenicity

International Agency for Research on Cancer (IARC): Whole diesel engine exhaust - IARC Group 1. Exposure may cause lung cancer and also noted a positive association with an increased risk of bladder cancer.

Diesel exhaust has been reported to be an occupational hazard due to NIOSH-reported potential carcinogenic properties.

IARC Monographs. Overall Evaluation of Carcinogenicity

Fuels, diesel, no. 2 (CAS 68476-34-6) 3 Not classifiable as to carcinogenicity to humans.

Naphthalene (CAS 91-20-3) 2B Possibly carcinogenic to humans.

**NTP Report on Carcinogens** 

Naphthalene (CAS 91-20-3) Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Napthalene interferes with embryo development in experimental animals at dose levels that cause maternal toxicity. In humans, excessive exposure to this agent may cause hemolytic anemia in the

mother and fetus.

Specific target organ toxicity single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity repeated exposure

May cause damage to the following organs through prolonged or repeated exposure: Blood. Liver. Thymus.

Aspiration hazard May be fatal if swallowed and enters airways.

Contains organic solvents which in case of overexposure may depress the central nervous system **Chronic effects** 

causing dizziness and intoxication. Repeated exposure to naphthalene may cause cataracts, allergic skin rashes, destruction of red blood cells, and anemia, jaundice, kidney and liver damage. Danger of serious damage to health by prolonged exposure. Prolonged or repeated overexposure

may cause central nervous system, kidney, liver, and lung damage.

#### **Further information**

Symptoms may be delayed. Hydrogen sulfide, a highly toxic gas, may be present. Signs and symptoms of overexposure to hydrogen sulfide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain in the nose, and loss of consciousness. Odor does not provide a reliable indicator of the presence of hazardous levels in the atmosphere. Toxicological properties of this material have not been fully investigated.

#### 12. Ecological information

**Ecotoxicity**Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Components		Species	Test Results
Fuels, diesel, no. 2 (CAS 6	8476-34-6)		
Aquatic			
Acute			
Crustacea	EL50	Daphnia magna	68 mg/l, 48 hours
Fish	LL50	Oncorhynchus mykiss	65 mg/l, 96 hours
Naphthalene (CAS 91-20-3	3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.09 - 3.4 mg/l, 48 hours
Fish	LC50	Pink salmon (Oncorhynchus gorbuscha)	0.95 - 1.62 mg/l, 96 hours
n-Heptane (CAS 142-82-5)	1		
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	4924 mg/l, 96 hours
n-Hexane (CAS 110-54-3)			
Aquatic			

Persistence and degradability

Bioaccumulative potential

Not available.

Not available.

Partition coefficient n-octanol / water (log Kow)

 Hexane (Other isomers) (CAS 96-14-0)
 3.6

 Octane (All isomers) (CAS 111-65-9)
 5.18

 n-Heptane (CAS 142-82-5)
 4.66

 n-Hexane (CAS 110-54-3)
 3.9

 n-Nonane (CAS 111-84-2)
 5.46

LC50

Mobility in soilNot available.Other adverse effectsNot available.

#### 13. Disposal considerations

Fish

**Disposal instructions** Dispose in accordance with all applicable regulations. This material and its container must be

disposed of as hazardous waste. Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate

Fathead minnow (Pimephales promelas) 2.101 - 2.981 mg/l, 96 hours

ponds, waterways or ditches with chemical or used container.

Hazardous waste code D001: Waste Flammable material with a flash point <140 °F

US RCRA Hazardous Waste U List: Reference

Naphthalene (CAS 91-20-3) U165

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Offer rinsed packaging material to local recycling facilities.

14. Transport information

DOT

UN number UN1202 UN proper shipping name Diesel fuel

Transport hazard class(es)

Class Combustible Liquid

Subsidiary risk - Packing group |||

DIESEL FUELS

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**Environmental hazards** 

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 144, B1, IB3, T2, TP1

Packaging exceptions150Packaging non bulk203Packaging bulk242

**IATA** 

UN number UN1202 UN proper shipping name Diesel fuel

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group III
Environmental hazards Yes
ERG Code 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

UN number UN1202 UN proper shipping name DIESEL FUEL

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group III
Environmental hazards

Marine pollutant Yes
EmS F-E, S-E

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Not applicable. However, MARPOL 73/78 and MARPOL 73/78, Annex I.

the IBC Code

Not applicable. However, this product is a liquid and if transported in bulk covered under

#### 15. Regulatory information

**US** federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

n-Nonane (CAS 111-84-2) 1.0 % One-Time Export Notification only.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Hexane (Other isomers) (CAS 96-14-0)

Naphthalene (CAS 91-20-3)

n-Heptane (CAS 142-82-5)

n-Hexane (CAS 110-54-3)

LISTED

n-Nonane (CAS 111-84-2)

Octane (All isomers) (CAS 111-65-9)

LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

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Chemical nameCAS number% by wt.Naphthalene91-20-30 - 1

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Naphthalene (CAS 91-20-3) n-Hexane (CAS 110-54-3)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations WARNING: This product contains chemicals known to the State of California to cause cancer and

birth defects or other reproductive harm.

#### **US. Massachusetts RTK - Substance List**

Hexane (Other isomers) (CAS 96-14-0)

Naphthalene (CAS 91-20-3) n-Heptane (CAS 142-82-5) n-Hexane (CAS 110-54-3) n-Nonane (CAS 111-84-2)

Octane (All isomers) (CAS 111-65-9)

#### US. New Jersey Worker and Community Right-to-Know Act

Fuels, diesel, no. 2 (CAS 68476-34-6)

Naphthalene (CAS 91-20-3) n-Heptane (CAS 142-82-5) n-Hexane (CAS 110-54-3) n-Nonane (CAS 111-84-2)

Octane (All isomers) (CAS 111-65-9)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Fuels, diesel, no. 2 (CAS 68476-34-6) Hexane (Other isomers) (CAS 96-14-0) Naphthalene (CAS 91-20-3)

n-Heptane (CAS 142-82-5) n-Hexane (CAS 110-54-3) n-Nonane (CAS 111-84-2)

Octane (All isomers) (CAS 111-65-9)

#### **US. Rhode Island RTK**

Naphthalene (CAS 91-20-3) n-Hexane (CAS 110-54-3)

#### **US. California Proposition 65**

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Benzene (CAS 71-43-2) Toluene (CAS 108-88-3)

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

DIESEL FUELS

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United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

#### 16. Other information, including date of preparation or last revision

Issue date 13-May-2013 Revision date 23-May-2014

Version # 04

Further information HMIS® is a registered trade and service mark of the NPCA.

**NFPA Ratings** 

country(s).



**Disclaimer** 

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Prepared by 3E Company



# **Know Your Rights: Workplace Discrimination is Illegal**

The U.S. Equal Employment Opportunity Commission (EEOC) enforces Federal laws that protect you from discrimination in employment. If you believe you've been discriminated against at work or in applying for a job, the EEOC may be able to help.

#### Who is Protected?

- Employees (current and former), including managers and temporary employees
- Job applicants
- Union members and applicants for membership in a union

#### What Organizations are Covered?

- Most private employers
- State and local governments (as employers)
- Educational institutions (as employers)
- Unions
- Staffing agencies

## What Types of Employment Discrimination are Illegal?

Under the EEOC's laws, an employer may not discriminate against you, regardless of your immigration status, on the bases of:

- Race
- Color
- Religion
- National origin
- Sex (including pregnancy, childbirth, and related medical conditions, sexual orientation, or gender identity)
- Age (40 and older)
- Disability
- Genetic information (including employer requests for, or purchase, use, or

- disclosure of genetic tests, genetic services, or family medical history)
- Retaliation for filing a charge, reasonably opposing discrimination, or participating in a discrimination lawsuit, investigation, or proceeding
- Interference, coercion, or threats related to exercising rights regarding disability discrimination or pregnancy accommodation

## What Employment Practices can be Challenged as Discriminatory?

All aspects of employment, including:

- Discharge, firing, or lay-off
- Harassment (including unwelcome verbal or physical conduct)
- Hiring or promotion
- Assignment
- Pay (unequal wages or compensation)
- Failure to provide reasonable accommodation for a disability; pregnancy, childbirth, or related medical condition; or a sincerely-held religious belief, observance or practice
- Benefits
- Job training
- Classification
- Referral

- Obtaining or disclosing genetic information of employees
- Requesting or disclosing medical information of employees
- Conduct that might reasonably discourage someone from opposing discrimination, filing a charge, or participating in an investigation or proceeding
- Conduct that coerces, intimidates, threatens, or interferes with someone exercising their rights, or someone assisting or encouraging someone else to exercise rights, regarding disability discrimination (including accommodation) or pregnancy accommodation

#### What can You Do if You Believe Discrimination has Occurred?

Contact the EEOC promptly if you suspect discrimination. Do not delay, because there are strict time limits for filing a charge of discrimination (180 or 300 days, depending on where you live/work). You can reach the EEOC in any of the following ways:

**Submit** an inquiry through the EEOC's public portal: https://publicportal.eeoc.gov/Portal/Login.aspx

Call 1-800-669-4000 (toll free)

1-800-669-6820 (TTY)

1-844-234-5122 (ASL video phone)

**Visit** an EEOC field office (information at www.eeoc.gov/field-office)

E-Mail info@eeoc.gov

Additional information about the EEOC, including information about filing a charge of discrimination, is available at www.eeoc.gov.



#### **EMPLOYERS HOLDING FEDERAL CONTRACTS OR SUBCONTRACTS**

The Department of Labor's Office of Federal Contract Compliance Programs (OFCCP) enforces the nondiscrimination and affirmative action commitments of companies doing business with the Federal Government. If you are applying for a job with, or are an employee of, a company with a Federal contract or subcontract, you are protected under Federal law from discrimination on the following bases:

## Race, Color, Religion, Sex, Sexual Orientation, Gender Identity, National Origin

Executive Order 11246, as amended, prohibits employment discrimination by Federal contractors based on race, color, religion, sex, sexual orientation, gender identity, or national origin, and requires affirmative action to ensure equality of opportunity in all aspects of employment.

#### **Asking About, Disclosing, or Discussing Pay**

Executive Order 11246, as amended, protects applicants and employees of Federal contractors from discrimination based on inquiring about, disclosing, or discussing their compensation or the compensation of other applicants or employees.

#### **Disability**

Section 503 of the Rehabilitation Act of 1973, as amended, protects qualified individuals with disabilities from discrimination in hiring, promotion, discharge, pay, fringe benefits, job training, classification, referral, and other aspects of employment by Federal contractors. Disability discrimination includes not making reasonable accommodation to the known physical or mental limitations of an otherwise qualified individual with a disability who is an applicant or employee, barring undue hardship to the employer. Section 503 also requires that Federal contractors take affirmative action to employ and advance in employment qualified individuals with disabilities at all levels of employment, including the executive level.

#### **Protected Veteran Status**

The Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended, 38 U.S.C. 4212, prohibits employment discrimination against, and requires affirmative action to recruit, employ, and advance in employment, disabled veterans, recently separated veterans (i.e., within three years of discharge or release from active duty), active duty wartime or campaign badge veterans, or Armed Forces service medal veterans.

#### Retaliation

Retaliation is prohibited against a person who files a complaint of discrimination, participates in an OFCCP proceeding, or otherwise opposes discrimination by Federal contractors under these Federal laws.

Any person who believes a contractor has violated its nondiscrimination or affirmative action obligations under OFCCP's authorities should contact immediately:

The Office of Federal Contract Compliance Programs (OFCCP) U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, D.C. 20210 1–800–397–6251 (toll-free)

If you are deaf, hard of hearing, or have a speech disability, please dial 7–1–1 to access telecommunications relay services. OFCCP may also be contacted by submitting a question online to OFCCP's Help Desk at <a href="https://ofccphelpdesk.dol.gov/s/">https://ofccphelpdesk.dol.gov/s/</a>, or by calling an OFCCP regional or district office, listed in most telephone directories under U.S. Government, Department of Labor and on OFCCP's "Contact Us" webpage at <a href="https://www.dol.gov/agencies/ofccp/contact">https://www.dol.gov/agencies/ofccp/contact</a>.

#### PROGRAMS OR ACTIVITIES RECEIVING FEDERAL FINANCIAL ASSISTANCE

#### Race, Color, National Origin, Sex

In addition to the protections of Title VII of the Civil Rights Act of 1964, as amended, Title VI of the Civil Rights Act of 1964, as amended, prohibits discrimination on the basis of race, color or national origin in programs or activities receiving Federal financial assistance. Employment discrimination is covered by Title VI if the primary objective of the financial assistance is provision of employment, or where employment discrimination causes or may cause discrimination in providing services under such programs. Title IX of the Education Amendments of 1972 prohibits employment discrimination on the basis of sex in educational programs or activities which receive Federal financial assistance.

#### **Individuals with Disabilities**

Section 504 of the Rehabilitation Act of 1973, as amended, prohibits employment discrimination on the basis of disability in any program or activity which receives Federal financial assistance. Discrimination is prohibited in all aspects of employment against persons with disabilities who, with or without reasonable accommodation, can perform the essential functions of the job.

If you believe you have been discriminated against in a program of any institution which receives Federal financial assistance, you should immediately contact the Federal agency providing such assistance.

## **EMPLOYEE RIGHTS**

## **UNDER THE FAIR LABOR STANDARDS ACT**

## FEDERAL MINIMUM WAGE

**BEGINNING JULY 24, 2009** 

The law requires employers to display this poster where employees can readily see it.

**OVERTIME PAY** 

At least 11/2 times the regular rate of pay for all hours worked over 40 in a workweek.

CHILD LABOR

An employee must be at least 16 years old to work in most non-farm jobs and at least 18 to work in non-farm jobs declared hazardous by the Secretary of Labor. Youths 14 and 15 years old may work outside school hours in various non-manufacturing, non-mining, non-hazardous jobs with certain work hours restrictions. Different rules apply in agricultural employment.

**TIP CREDIT** 

Employers of "tipped employees" who meet certain conditions may claim a partial wage credit based on tips received by their employees. Employers must pay tipped employees a cash wage of at least \$2.13 per hour if they claim a tip credit against their minimum wage obligation. If an employee's tips combined with the employer's cash wage of at least \$2.13 per hour do not equal the minimum hourly wage, the employer must make up the difference.

**PUMP AT WORK** 

The FLSA requires employers to provide reasonable break time for a nursing employee to express breast milk for their nursing child for one year after the child's birth each time the employee needs to express breast milk. Employers must provide a place, other than a bathroom, that is shielded from view and free from intrusion from coworkers and the public, which may be used by the employee to express breast milk.

#### **ENFORCEMENT**

The Department has authority to recover back wages and an equal amount in liquidated damages in instances of minimum wage, overtime, and other violations. The Department may litigate and/or recommend criminal prosecution. Employers may be assessed civil money penalties for each willful or repeated violation of the minimum wage or overtime pay provisions of the law. Civil money penalties may also be assessed for violations of the FLSA's child labor provisions. Heightened civil money penalties may be assessed for each child labor violation that results in the death or serious injury of any minor employee, and such assessments may be doubled when the violations are determined to be willful or repeated. The law also prohibits retaliating against or discharging workers who file a complaint or participate in any proceeding under the FLSA.

#### **ADDITIONAL INFORMATION**

- Certain occupations and establishments are exempt from the minimum wage, and/or overtime
- Special provisions apply to workers in American Samoa, the Commonwealth of the Northern Mariana Islands, and the Commonwealth of Puerto Rico.
- Some state laws provide greater employee protections; employers must comply with both.
- Some employers incorrectly classify workers as "independent contractors" when they are actually employees under the FLSA. It is important to know the difference between the two because employees (unless exempt) are entitled to the FLSA's minimum wage and overtime pay protections and correctly classified independent contractors are not.
- · Certain full-time students, student learners, apprentices, and workers with disabilities may be paid less than the minimum wage under special certificates issued by the Department of Labor.







## Job Safety and Health IT'S THE LAW!

#### All workers have the right to:

- A safe workplace.
- Raise a safety or health concern with your employer or OSHA, or report a workrelated injury or illness, without being retaliated against.
- Receive information and training on job hazards, including all hazardous substances in your workplace.
- Request a confidential OSHA inspection of your workplace if you believe there are unsafe or unhealthy conditions. You have the right to have a representative contact OSHA on your behalf.
- Participate (or have your representative participate) in an OSHA inspection and speak in private to the inspector.
- File a complaint with OSHA within 30 days (by phone, online or by mail) if you have been retaliated against for using your rights.
- See any OSHA citations issued to your employer.
- Request copies of your medical records, tests that measure hazards in the workplace, and the workplace injury and illness log.

This poster is available free from OSHA.

Contact OSHA. We can help.

#### **Employers must:**

- Provide employees a workplace free from recognized hazards. It is illegal to retaliate against an employee for using any of their rights under the law, including raising a health and safety concern with you or with OSHA, or reporting a work-related injury or illness.
- Comply with all applicable OSHA standards.
- Notify OSHA within 8 hours of a workplace fatality or within 24 hours of any work-related inpatient hospitalization, amputation, or loss of an eye.
- Provide required training to all workers in a language and vocabulary they can understand.
- Prominently display this poster in the workplace.
- Post OSHA citations at or near the place of the alleged violations.

On-Site Consultation services are available to small and medium-sized employers, without citation or penalty, through OSHA-supported consultation programs in every state.



## **EMPLOYEE RIGHTS**

## **EMPLOYEE POLYGRAPH PROTECTION ACT**

The Employee Polygraph Protection Act prohibits most private employers from using lie detector tests either for pre-employment screening or during the course of employment.

#### **PROHIBITIONS**

Employers are generally prohibited from requiring or requesting any employee or job applicant to take a lie detector test, and from discharging, disciplining, or discriminating against an employee or prospective employee for refusing to take a test or for exercising other rights under the Act.

#### **EXEMPTIONS**

Federal, State and local governments are not affected by the law. Also, the law does not apply to tests given by the Federal Government to certain private individuals engaged in national security-related activities.

The Act permits polygraph (a kind of lie detector) tests to be administered in the private sector, subject to restrictions, to certain prospective employees of security service firms (armored car, alarm, and guard), and of pharmaceutical manufacturers, distributors and dispensers.

The Act also permits polygraph testing, subject to restrictions, of certain employees of private firms who are reasonably suspected of involvement in a workplace incident (theft, embezzlement, etc.) that resulted in economic loss to the employer.

The law does not preempt any provision of any State or local law or any collective bargaining agreement which is more restrictive with respect to lie detector tests.

## EXAMINEE RIGHTS

Where polygraph tests are permitted, they are subject to numerous strict standards concerning the conduct and length of the test. Examinees have a number of specific rights, including the right to a written notice before testing, the right to refuse or discontinue a test, and the right not to have test results disclosed to unauthorized persons.

#### **ENFORCEMENT**

The Secretary of Labor may bring court actions to restrain violations and assess civil penalties against violators. Employees or job applicants may also bring their own court actions.

THE LAW REQUIRES EMPLOYERS TO DISPLAY THIS POSTER WHERE EMPLOYEES AND JOB APPLICANTS CAN READILY SEE IT.

UNITED STATES DEPARTMENT OF LABOR





# Your Employee Rights Under the Family and Medical Leave Act

#### What is FMLA leave?

The Family and Medical Leave Act (FMLA) is a federal law that provides eligible employees with job-protected leave for qualifying family and medical reasons. The U.S. Department of Labor's Wage and Hour Division (WHD) enforces the FMLA for most employees.

Eligible employees can take **up to 12 workweeks** of FMLA leave in a 12-month period for:

- The birth, adoption or foster placement of a child with you,
- Your serious mental or physical health condition that makes you unable to work.
- To care for your spouse, child or parent with a serious mental or physical health condition, and
- Certain qualifying reasons related to the foreign deployment of your spouse, child or parent who is a military servicemember.

An eligible employee who is the spouse, child, parent or next of kin of a covered servicemember with a serious injury or illness <u>may</u> take up to 26 workweeks of FMLA leave in a single 12-month period to care for the servicemember.

You have the right to use FMLA leave in **one block of time**. When it is medically necessary or otherwise permitted, you may take FMLA leave **intermittently in separate blocks of time**, **or on a reduced schedule** by working less hours each day or week. Read Fact Sheet #28M(c) for more information.

FMLA leave is <u>not</u> paid leave, but you may choose, or be required by your employer, to use any employer-provided paid leave if your employer's paid leave policy covers the reason for which you need FMLA leave.

## Am I eligible to take FMLA leave?

You are an **eligible employee** if <u>all</u> of the following apply:

- You work for a covered employer,
- You have worked for your employer at least 12 months,
- You have at least 1,250 hours of service for your employer during the 12 months before your leave, and
- Your employer has at least 50 employees within 75 miles of your work location.

Airline flight crew employees have different "hours of service" requirements.

You work for a **covered employer** if <u>one</u> of the following applies:

- You work for a private employer that had at least 50 employees during at least 20 workweeks in the current or previous calendar year,
- · You work for an elementary or public or private secondary school, or
- You work for a public agency, such as a local, state or federal government agency. Most federal employees are covered by Title II of the FMLA, administered by the Office of Personnel Management.

## How do I request FMLA leave?

Generally, to request FMLA leave you must:

- Follow your employer's normal policies for requesting leave,
- Give notice at least 30 days before your need for FMLA leave, or
- If advance notice is not possible, give notice as soon as possible.

You do <u>not</u> have to share a medical diagnosis but must provide enough information to your employer so they can determine whether the leave qualifies for FMLA protection. You <u>must</u> also <u>inform your employer if FMLA leave was previously taken</u> or approved for the same reason when requesting additional leave.

Your **employer** <u>may</u> **request certification** from a health care provider to verify medical leave and may request certification of a qualifying exigency.

The FMLA does not affect any federal or state law prohibiting discrimination or supersede any state or local law or collective bargaining agreement that provides greater family or medical leave rights.

State employees may be subject to certain limitations in pursuit of direct lawsuits regarding leave for their own serious health conditions. Most federal and certain congressional employees are also covered by the law but are subject to the jurisdiction of the U.S. Office of Personnel Management or Congress.

## What does my employer need to do?

If you are eligible for FMLA leave, your **employer** <u>must</u>:

- · Allow you to take job-protected time off work for a qualifying reason,
- Continue your group health plan coverage while you are on leave on the same basis as if you had not taken leave, and
- Allow you to return to the same job, or a virtually identical job with the same pay, benefits and other working conditions, including shift and location, at the end of your leave.

Your **employer** <u>cannot</u> interfere with your FMLA rights or threaten or punish you for exercising your rights under the law. For example, your employer cannot retaliate against you for requesting FMLA leave or cooperating with a WHD investigation.

After becoming aware that your need for leave is for a reason that may qualify under the FMLA, your **employer** <u>must</u> **confirm whether you are eligible** or not eligible for FMLA leave. If your employer determines that you are eligible, your **employer** <u>must</u> **notify you** in **writing**:

- About your FMLA rights and responsibilities, and
- How much of your requested leave, if any, will be FMLA-protected leave.

## Where can I find more information?

Call 1-866-487-9243 or visit dol.gov/fmla to learn more.

If you believe your rights under the FMLA have been violated, you may file a complaint with WHD or file a private lawsuit against your employer in court. Scan the QR code to learn about our WHD complaint process.



WAGE AND HOUR DIVISION
UNITED STATES DEPARTMENT OF LABOR

















## **YOUR RIGHTS UNDER USERRA** THE UNIFORMED SERVICES EMPLOYMENT AND REEMPLOYMENT RIGHTS ACT

USERRA protects the job rights of individuals who voluntarily or involuntarily leave employment positions to undertake military service or certain types of service in the National Disaster Medical System, USERRA also prohibits employers from discriminating against past and present members of the uniformed services, and applicants to the uniformed services.

#### REEMPLOYMENT RIGHTS

You have the right to be reemployed in your civilian job if you leave that job to perform service in the uniformed service and:

- you ensure that your employer receives advance written or verbal notice of your service;
- you have five years or less of cumulative service in the uniformed services while with that particular employer;
- you return to work or apply for reemployment in a timely manner after conclusion of service; and
- you have not been separated from service with a disqualifying discharge or under other than honorable conditions.

If you are eligible to be reemployed, you must be restored to the job and benefits you would have attained if you had not been absent due to military service or, in some cases, a comparable job.

#### RIGHT TO BE FREE FROM DISCRIMINATION AND RETALIATION

#### If you:

- ₩ are a past or present member of the uniformed service;
- have applied for membership in the uniformed service; or
- are obligated to serve in the uniformed service;

then an employer may not deny you:

- initial employment:
- ☆ reemployment;
- ☆ retention in employment;
- promotion; or
- any benefit of employment

because of this status.

In addition, an employer may not retaliate against anyone assisting in the enforcement of USERRA rights, including testifying or making a statement in connection with a proceeding under USERRA, even if that person has no service connection.

#### **HEALTH INSURANCE PROTECTION**

- If you leave your job to perform military service, you have the right to elect to continue your existing employer-based health plan coverage for you and your dependents for up to 24 months while in the military.
- Even if you don't elect to continue coverage during your military service, you have the right to be reinstated in your employer's health plan when you are reemployed, generally without any waiting periods or exclusions (e.g., pre-existing condition exclusions) except for service-connected illnesses or injuries.

#### **ENFORCEMENT**

- The U.S. Department of Labor, Veterans Employment and Training Service (VETS) is authorized to investigate and resolve complaints of USERRA violations.
- For assistance in filing a complaint, or for any other information on USERRA, contact VETS at 1-866-4-USA-DOL or visit its website at https://www.dol.gov/agencies/vets/. An interactive online USERRA Advisor can be viewed at https://webapps.dol.gov/elaws/vets/userra
- If you file a complaint with VETS and VETS is unable to resolve it, you may request that your case be referred to the Department of Justice or the Office of Special Counsel, as applicable, for representation.
- You may also bypass the VETS process and bring a civil action against an employer for violations of USERRA.

The rights listed here may vary depending on the circumstances. The text of this notice was prepared by VETS, and may be viewed on the internet at this address: https://www.dol.gov/agencies/vets/programs/userra/poster Federal law requires employers to notify employees of their rights under USERRA, and employers may meet this requirement by displaying the text of this notice where they customarily place notices for employees.













## **Know Your Rights**



#### EQUAL EMPLOYMENT OPPORTUNITY IS THE LAW

The Ohio Civil Rights Act protects applicants and employees of private employers, state, county and local governments, educational institutions, labor organizations, employment agencies and personnel placement services from unlawful discriminatory employment practices.

#### Race and Color

Ohio law prohibits discrimination on the basis of *race or color* in hiring, promotion, tenure, discharge, pay, fringe benefits, job training, classification, referral, terms, conditions and privileges of employment, or any other matter directly or indirectly related to employment.

In addition, any facially neutral employment policy or practice that results in a discriminatory impact on the basis of race or color is a prohibited form of discrimination unless such policy or practice is job-related and based upon business necessity.

#### **National Origin and Ancestry**

Ohio law prohibits discrimination on the basis of *national origin or ancestry* in hiring, promotion, tenure, discharge, pay, fringe benefits, job training, classification, referral, terms, conditions and privileges of employment, or any other matter directly or indirectly related to employment.

In addition, any policy or practice limiting or prohibiting the use of any language in the workplace is a prohibited form of discrimination unless such limitation or prohibition is jobrelated and based upon business necessity.

## Sex, Including Pregnancy, Sexual Orientation, and Gender Identity

Ohio law prohibits discrimination on the basis of **sex or pregnancy** in hiring, promotion, tenure, discharge, pay, fringe benefits, job training, classification, referral, terms, conditions and privileges of employment, or any other matter directly or indirectly related to employment.

Women affected by pregnancy, childbirth or related medical condition must be afforded leave for a reasonable period of time and may not be discharged under a policy providing insufficient or no leave.

The U.S. Supreme Court, in the case of *Bostock v. Clayton Cty., Georgia. U.S. 140 S. Ct. 1731 (2020)*, as well as other federal court cases have extended sex discrimination to include prohibition of employment discrimination on the basis of sexual orientation and gender identity.

#### Religion

Ohio law prohibits discrimination on the basis of *religion* in hiring, promotion, tenure, discharge, pay, fringe benefits, job training, classification, referral, terms, conditions and privileges of employment, or any other matter directly or indirectly related to employment.

In addition, applicants and employees must be provided with a reasonable accommodation for religious beliefs and practices, except when the accommodation imposes an undue hardship.

#### **Military Status**

Ohio law prohibits discrimination on the basis of *military status* in hiring, promotion, tenure, discharge, pay, fringe benefits, job training, classification, referral, terms, conditions and privileges of employment, or any other matter directly or indirectly related to employment.

In addition, employees who leave employment to perform military service, which includes the performance of duty, on a voluntary or involuntary basis, in a uniformed service, under competent authority, must be reemployed upon conclusion of such service.

#### **Disability**

Ohio law prohibits discrimination on the basis of *disability* in hiring, promotion, tenure, discharge, pay, fringe benefits, job training, classification, referral, terms, conditions and privileges of employment, or any other matter directly or indirectly related to employment.

In addition, applicants and employees must be provided with a reasonable accommodation for their disabilities, except when the accommodation imposes an undue hardship.

#### Age

Ohio law prohibits discrimination against persons 40 years of age or older on the basis of age in hiring, promotion, tenure, discharge, pay, fringe benefits, job training, classification, referral, terms, conditions and privileges of employment, or any other matter directly or indirectly related to employment.

#### Harassment

Ohio law prohibits harassment in the workplace on any basis set forth herein, which includes the creation of a racially or sexually hostile work environment, verbally or physically abusive treatment, and requiring submission to sexual advances as a condition of employment, continued employment or promotion.

In addition, all reasonable steps should be taken to prevent and promptly correct harassment in the workplace, which includes the establishment of a policy against harassment and a procedure for receiving, investigating and remedying complaints of workplace harassment.

#### Retaliation

Ohio law prohibits retaliation against any person because that person has opposed any unlawful discriminatory practice, or because that person has made a charge, testified, assisted or participated in any manner in any investigation, proceeding or hearing.

#### **ENFORCEMENT**

The Ohio Civil Rights Commission (OCRC) investigates complaints of discrimination and harassment in employment.

Complaints must be filed with the OCRC within two years of the last act of discrimination or harassment.

For more information or assistance in filing a complaint, please call toll free: 1-888-278-7101, TTY (614) 752-2391 or visit our website at: www.civ.ohio.gov

Publication Date 08-22



#### STATE OF OHIO

#### 2024 MINIMUM WAGE

www.com.ohio.gov

Mike DeWine Governor

Jon Husted

Lt. Governor

Sherry Maxfield Director

#### NON-TIPPED EMPLOYEES

#### A Minimum Wage of

**\$10.45** per hour

"Non-Tipped Employees" includes any employee who does not engage in an occupation in which he/she customarily and regularly receives more than thirty dollars (\$30.00) per month in tips.

"Employers" who gross less than \$385,000 shall pay their employees no less than the current federal minimum wage rate.

"Employees" under the age of 16 shall be paid no less than the current federal minimum wage rate.

"Current Federal Minimum Wage" is \$7.25 per hour.

#### TIPPED EMPLOYEES

### A Minimum Wage of \$5.25 per hour PLUS TIPS

"Tipped Employees" includes any employee who engages in an occupation in which he/she customarily and regularly receives more than thirty dollars (\$30.00) per month in tips. Employers electing to use the tip credit provision must be able to show that tipped employees receive at least the minimum wage when direct or cash wages and the tip credit amount are combined.

#### **OVERTIME**

 An employer shall pay an employee for overtime at a wage rate of one and one-half times the employee's wage rate for hours in excess of 40 hours in one work week, except for employers grossing less than \$150,000 per year.

#### RECORDS TO BE KEPT BY THE EMPLOYER

- Each employer shall keep records for at least three years, available for copying and inspection by the Director of the Ohio Department of Commerce, showing the following information concerning each employee:
  - A. Name
  - B. Address
  - C. Occupation
  - D. Rate of Pay
  - E. Amount paid each pay period
  - F. Hours worked each day and each work week
- The records may be opened for inspection or copying at any reasonable time and no employer shall hinder or delay the Director of the Ohio Department of Commerce in the performance of these duties.

#### SUB-MINIMUM WAGE RATE

To prevent the curtailment of opportunities for employment and avoid undue hardship to individuals whose earning capacity is affected or impaired by physical or mental deficiencies or injuries, a sub-minimum wage may be paid, as provided in the rules and regulations set forth by the Director of the Ohio Department of Commerce.

#### INDIVIDUALS EXEMPT FROM MINIMUM WAGE

- 1. Any individual employed by the United States;
- Any individual employed as a baby-sitter in the employer's home, or a live-in companion to a sick, convalescing, or elderly person whose principal duties do not include housekeeping;
- Any individual employed as an outside salesman compensated by commissions or in a bona fide executive, administrative, or professional capacity, or computer professionals;
- 4. Any individual who volunteers to perform services for a public agency which is a State, a political subdivision of a State, or an interstate government agency, if
  - (i) the individual receives no compensation or is paid expenses, reasonable benefits, or a nominal fee to perform the services for which the individual volunteered; and
  - (ii) such services are not the same type of services which the individual is employed to perform for such public agency;
- Any individual who works or provides personal services of a charitable nature in a hospital or health institution for which compensation is not sought or contemplated;
- Any individual in the employ of a camp or recreational area for children under eighteen years of age and owned and operated by a non-profit organization or group of organizations.
- Employees of a solely family owned and operated business who are family members of an owner.
- \* For information about additional exemptions, please visit the Ohio Division of Industrial Compliance or U.S. Department of Labor websites.

For further information about minimum wage issues, please contact: The Ohio Department of Commerce, Division of Industrial Compliance, 6606 Tussing Road, Reynoldsburg, Ohio 43068. Phone: 614-644-2239. TTY/TDD: 1-800-750-0750. An Equal Opportunity Employer and Service Provider. (REV. 9/30/23)



#### STATE OF OHIO MINOR LABOR LAWS

www.com.ohio.gov

Mike Dewine. Governor

Jon Husted, Lt. Governor

Sheryl Maxfield, Director

#### OHIO REVISED CODE CHAPTER 4109\*

#### "MINOR" MEANS ANY PERSON LESS THAN 18 YEARS OF AGE

WORKING PERMITS: Every minor 14 through 17 years of age must have a working permit unless otherwise stated in Chapter 4109.

WAGE AGREEMENT: No employer shall give employment to a minor without agreeing with him/her as to the wages or compensation he/she shall receive for each day, week,

REST PERIOD: No employer shall employ a minor more than 5 consecutive hours without a rest period of at least 30 minutes.

LIST OF MINORS EMPLOYED: Employer shall keep a list of minors employed at each establishment and a list must be posted in a conspicuous place to which all minor employees have access.

TIME RECORDS: Every employer shall keep a time book or other written record showing actual starting and stopping time of each work and rest period. These records must be kept for two (2) years.

#### RESTRICTIONS ON WORKING HOURS FOR MINORS 14 and 15 YEARS OF AGE

No person under 16 shall be employed:

- 1. During school hours except where specifically permitted by Chapter 4109
- 2. Before 7 a.m. or after 9 p.m. from June 1st to September 1st or during any school holiday of 5 school days or more; or after 7 p.m. at any other time
- 3. For more than 3 hours a day in any school day
- 4. For more than 18 hours in any school week
- 5. For more than 8 hours in any day when school is not in session
- 6. For more than 40 hours in any week that school is not in session nor during school hours, unless employment is incidental to bona fide programs of vocational cooperative training, work-study, or other work-oriented programs with the purpose of educating students, and the program meets standards established by the state board of education.

#### RESTRICTIONS ON WORKING HOURS FOR MINORS 16 and 17 YEARS OF AGE

No person 16 or 17 who is required to attend school shall be employed:

- 1. Before 7 a.m. on any day that school is in session or 6 a.m. if the person was not employed after 8 p.m. the previous night
- 2. After 11 p.m. on any night preceding a day that school is in session.

#### PROHIBITED OCCUPATIONS FOR MINORS UNDER 16 YEARS OF AGE

- 1. All manufacturing; mining; processing; public messenger service
- Work in freezers and meat coolers and all preparation of meats for sale (except wrapping, sealing, labeling, weighing, pricing and stocking)
- 3. Transportation; storage; communications; public utilities; construction; repair
- Work in boiler or engine rooms; maintenance or repair of machinery
- 5. Outside window washing from window sills or scaffolding and/or ladders
- Cooking and baking; operating, setting up, adjusting, cleaning, oiling or repairing power-driven food slicers, grinders, food choppers, cutters, bakery type mixers 7.Loading or unloading goods to and from trucks
- 8. All warehouse work except office and clerical
- Work in connection with cars and trucks involving the use of pits, racks or lifting apparatus or involving the inflation of any tire mounted on a rim equipped with a removable retaining ring.

#### PROHIBITED OCCUPATIONS FOR MINORS 14 through 17 YEARS OF AGE

- Occupations involving slaughtering, meat-packing, processing or
- Power-driven bakery machines
- Occupations involved in the manufacture of brick, tile and kindred products
- Occupations involved in the manufacture of chemicals
- Manufacturing or storage occupations involving explosives
- Occupations involving exposure to radioactive substances and to 6. ionizing radiations
- Power-driven paper products machines
- Power-driven metal forming, punching and shearing machines
- Occupations involved in the operation of power-driven circular saws, band saws and guillotine shears

- 10. Power-driven woodworking machines
- 11. Coal mines
- 12. Occupations in connection with mining, other than coal
- 13. Logging and sawmilling
- 14. Motor vehicle occupations
- 15. Maritime and longshoreman occupations
- 16. Railroads
- 17. Excavation operations
- 18. Power-driven and hoisting apparatus
- 19. Roofing operations
- 20. Wrecking, demolition, and shipbreaking.

#### MINORS UNDER 16 YEARS OF AGE MAY NOT ENGAGE IN DOOR-TO-DOOR EMPLOYMENT UNLESS

The for-profit employer is REGISTERED with the Ohio Department of Commerce. DOOR-TO-DOOR SALES EMPLOYERS SHALL:

- 1. Be in compliance with all applicable Ohio and Federal laws relating to the employment of minors
- 2. Provide at least one supervisor who is over the age of eighteen, for each six minor employees
- Have been and be in compliance with Ohio's Motor Vehicle Financial Responsibility, Workers' Compensation, Unemployment Compensation, and all other applicable laws
- Require all minors to work at least in pairs
- Not employ any minor who does not have an appropriate Age and Schooling Certificate
- Provide each minor employee with a photo identification card
- Not employ any minor in any door-to-door sales activity during school hours except where specifically permitted Not employ minors under 16 in door-to-door sales activity before 7 a.m. or after 7 p.m.
- 9. Not employ minors 16 and 17 years of age in door-to-door sales activity before 7 a.m. or after 8 p.m.

#### \*For Exceptions to Coverage See Chapter 4109.06

This is a summary of ORC 4109. This summary does not include all of the requirements for minor labor laws. Persons should refer to 4109 for specific requirements applicable to them. This information can be accessed through the Ohio Department of Commerce website at www.com.ohio.gov.

#### POST IN A CONSPICUOUS PLACE



# NOTICE TO EMPLOYEES

## THIS EMPLOYER PROVIDES UNEMPLOYMENT INSURANCE COVERAGE FOR EMPLOYEES

Employees who become unemployed (or are working less than full-time) may be eligible for unemployment insurance benefits.

Apply by phone at 1-877-644-6562 (OHIOJOB) or online at http://unemployment.ohio.gov

Be prepared to provide the following information when applying:

- Social Security number
- Driver's license or State ID number
- Names, Social Security numbers, and dates of birth of all dependent children
- Employer's identification notice (pay stubs or W2 form)
- Name and address of all other employers for whom work was performed during the past 18 months

## APPLY FOR WORK AT YOUR NEAREST OHIOMEANSJOBS CENTER

 $\label{eq:mike-def} \textbf{Mike DeWine, Governor} \mid \textbf{Matt Damschroder, Director} \mid \textbf{JFS} \ 55341 \ \ (\textbf{Rev.} \ 1/2024)$ 

# NO SMOKING NO VAPING



To report violations call 1-866-559-OHIO (6446) in accordance with Chapter 3794 of the Ohio Revised Code.



