

**SECTION 1 Identification****1.1. Product identifier**

Product form : Mixture  
Product name : Penetrating Oil Aerosol  
Part Number : 11043  
Vaporizer : Aerosol

**1.2. Other means of identification**

No additional information available

**1.3. Recommended use of the chemical and restrictions on use**

Use of the substance/mixture : Lubricating oil

**1.4. Supplier's details**

Lucas Oil Products, Inc.  
3199 Harrison Way NW  
Corydon, IN 47112  
USA  
T 800-342-2512  
[sds@lucasoil.com](mailto:sds@lucasoil.com) - [www.LucasOil.com](http://www.LucasOil.com)

**1.5. Emergency phone number**

Emergency number : For Chemical Emergency Call ChemTel 24hr/day 7days/week. Within USA, Canada, Puerto Rico & US Virgin Islands: 1-800-255-3924. International: 1-813-248-0585 (collect calls accepted). Australia: 1-300-954-583. Brazil: 0-800-591-6042. China: 400-120-0751. India: 000-800-100-4086. Mexico: 800-099-0731.

**SECTION 2 Hazard Identification****2.1. Classification of the substance or mixture****GHS US classification**

Aerosol, Category 1	H222;H229	Extremely flammable aerosol. Pressurized container; may burst if heated.
Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
Skin sensitization, Category 1	H317	May cause an allergic skin reaction.
Reproductive toxicity, Category 1	H360	May damage fertility or the unborn child.
Aspiration hazard, Category 1	H304	May be fatal if swallowed and enters airways.
Hazardous to the aquatic environment — Acute Hazard, Category 3	H402	Harmful to aquatic life.

Full text of H statements : see section 16

**2.2. Label elements****GHS US labeling**

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H222 - Extremely flammable aerosol  
H229 - Pressurized container; may burst if heated

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### Precautionary statements (GHS US)

H304 - May be fatal if swallowed and enters airways  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H360 - May damage fertility or the unborn child  
H402 - Harmful to aquatic life

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 - Do not spray on an open flame or other ignition source.  
P251 - Do not pierce or burn, even after use.  
P261 - Avoid breathing dust, fume, gas, mist, vapors, spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.  
P301+P310 - If swallowed: Immediately call a poison center or doctor.  
P302+P352 - If on skin: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P331 - Do NOT induce vomiting.  
P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.  
P337+P313 - If eye irritation persists: Get medical advice or attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P405 - Store locked up.  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 122 °F (50 °C).  
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

### 2.4. Hazards not otherwise classified

No additional information available

### 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Distillates (petroleum), hydrotreated light	CAS-No.: 64742-47-8	45 - 70*	Asp. Tox. 1, H304
Propane	CAS-No.: 74-98-6	10 - 30*	Flam. Gas 1A, H220 Press. Gas (Liq.), H280

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Name	Product identifier	%	GHS US classification
Butane	CAS-No.: 106-97-8	7 - 13*	Flam. Gas 1, H220 Press. Gas (Comp.), H280
Sulfonic acids, petroleum, calcium salts, overbased	CAS-No.: 68783-96-0	5 - 10*	Skin Sens. 1, H317
Distillates (petroleum), hydrotreated full-range	CAS-No.: 91995-46-9	1 - 5*	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312
Sulfonic acids, petroleum, calcium salts	CAS-No.: 61789-86-4	1 - 5*	Skin Sens. 1B, H317
Sulfonic acids, petroleum, sodium salts	CAS-No.: 68608-26-4	0.5 - 1.5*	Skin Irrit. 2, H315 Eye Dam. 1, H318
Zinc 2-ethylhexanoate	CAS-No.: 136-53-8	0.1 - 1*	Eye Irrit. 2, H319 Repr. 1, H360 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.
Personal protection for first-aid responders.	: First aid workers will be equipped with suitable personal protective equipment.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: May cause eye irritation. Eye irritation.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Risk of lung edema.
Chronic symptoms	: May damage fertility or the unborn child.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Treat symptomatically.
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## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS THE LEAK CAN BE STOPPED. Dry chemical, CO <sub>2</sub> , or water spray or regular foam. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Extremely flammable aerosol. Pressurized container: may burst if heated. Heating may cause a fire or explosion.
Explosion hazard	: Explosion risk in case of fire. Heating may cause an explosion.

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Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame.
Firefighting instructions	: Eliminate all ignition sources if safe to do so. Fight fire remotely due to the risk of explosion. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Self-contained breathing apparatus. Do not attempt to take action without suitable protective equipment. Complete protective clothing.

## SECTION 6 Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Eliminate every possible source of ignition. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

#### For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing dust/fume/gas/mist/vapors/spray.

#### For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.
Environmental precautions	: Avoid release to the environment. Avoid discharge to atmosphere. Notify authorities if product enters sewers or public waters.

### 6.2. Methods and materials for containment and cleaning up

For containment	: Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

For further information refer to section 13.

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Obtain special instructions before use. Use only outdoors or in a well-ventilated area. Prevent the build-up of electrostatic charge. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.

### 7.2. Conditions for safe storage, including incompatibilities

Technical measures	: Use only non-sparking tools. Ground/bond container and receiving equipment.
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Storage conditions	: Keep only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep in fireproof place. Keep container closed when not in use. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up.
Packaging materials	: Always store product in container of same material as original container.

## SECTION 8 Exposure controls/personal protection

### 8.1. Control parameters

Propane (74-98-6)	
<b>USA - ACGIH® - Threshold Limit Values</b>	
Local name	Propane
Remark (ACGIH®)	TLV® Basis: Simple Asphyxiant
Regulatory reference	ACGIH 2024
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Propane
OSHA PEL TWA	1800 mg/m <sup>3</sup> 1000 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
<b>USA - Cal/OSHA - Occupational Exposure Limits</b>	
Local name	Propane
Cal/OSHA PEL (OEL TWA)	1800 mg/m <sup>3</sup> 1000 ppm
Remark (Cal/OSHA)	(h) A number of gases and vapors, when present in high concentrations, act primarily as asphyxiants without other adverse effects. A concentration limit is not included for each material because the limiting factor is the available oxygen. (Several of these materials present fire or explosion hazards.)
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)
<b>USA - NIOSH - Occupational Exposure Limits</b>	
Local name	Propane
NIOSH REL 10h TWA	1000 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))
Butane (106-97-8)	
<b>USA - ACGIH® - Threshold Limit Values</b>	
Local name	Butane
ACGIH® TLV® STEL	1000 ppm
Remark (ACGIH®)	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2024
<b>USA - Cal/OSHA - Occupational Exposure Limits</b>	
Local name	Butane

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Butane (106-97-8)	
Cal/OSHA PEL (OEL TWA)	1900 mg/m <sup>3</sup> 800 ppm
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust or general room ventilation. Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

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

#### Personal protective equipment:

Wear recommended personal protective equipment.

<b>Hand protection:</b>
Protective gloves
<b>Eye protection:</b>
Safety glasses
<b>Skin and body protection:</b>
Wear suitable protective clothing
<b>Respiratory protection:</b>
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. [In case of inadequate ventilation] wear respiratory protection.

#### Personal protective equipment symbol(s):



## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state : Liquid  
Appearance : Liquid.  
Color : Mixture contains one or more component(s) which have the following color(s):  
Colourless White Colourless to light yellow On exposure to air: brown  
Odor : There may be no odor warning properties, odor is subjective and inadequate to warn of overexposure.  
Mixture contains one or more component(s) which have the following odor:  
Pure substance is odourless Commercial/unpurified substance: unpleasant odour Odourless  
Mild odour Ammonia odour  
Odor threshold : No data available  
pH : No data available  
Melting point : Not applicable  
Freezing point : No data available  
Boiling point : No data available  
Flash point : No data available  
Flammability (solid, gas) : Not applicable.

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Vapor pressure	: > 275 kPa @ 37.8 ° C
Relative vapor density at 20°C	: No data available
Relative density	: 0.822
Density	: 6.8596 lb/gal
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 5.892 mm <sup>2</sup> /s @ 40 ° C
Explosion limits	: No data available
Particle characteristics	: No data available

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

Gas group : Press. Gas (Liq.)

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Extremely flammable aerosol. Pressurized container: may burst if heated.

### 10.3. Possibility of hazardous reactions

May mass explode in fire. Heating may cause a fire or explosion.

### 10.4. Conditions to avoid

High temperature. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Combustible materials.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11 Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### Distillates (petroleum), hydrotreated light (64742-47-8)

LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Guideline: EPA OTS 798.1175 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
LD50 oral	15000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg body weight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.28 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 0,42 -

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<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
LC50 Inhalation - Rat (Dust/Mist)	> 5.2 mg/l Source: IUCLID
ATE US (oral)	15000 mg/kg body weight
<b>Sulfonic acids, petroleum, calcium salts, overbased (68783-96-0)</b>	
LD50 oral rat	> 20000 mg/kg Source: International Uniform Chemical Information Database
LD50 dermal rabbit	> 20000 mg/kg Source: International Uniform Chemical Information Database
<b>Propane (74-98-6)</b>	
LC50 Inhalation - Rat [ppm]	> 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases))
<b>Butane (106-97-8)</b>	
LC50 Inhalation - Rat [ppm]	276798.8 ppm
<b>Sulfonic acids, petroleum, calcium salts (61789-86-4)</b>	
LD50 oral rat	> 16000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: other:
LD50 dermal rat	> 2000 mg/kg Source: International Uniform Chemical Information Database
LD50 dermal rabbit	> 4000 mg/kg body weight Animal: rabbit, Guideline: other:
LC50 Inhalation - Rat	> 1.9 mg/l air Animal: rat, Guideline: EPA OPP 81-3 (Acute inhalation toxicity)
<b>Sulfonic acids, petroleum, sodium salts (68608-26-4)</b>	
LD50 dermal rabbit	> 5000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 1.9 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
<b>Zinc 2-ethylhexanoate (136-53-8)</b>	
LD50 oral rat	> 5000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value of similar product, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value of similar product, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 5.7 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value of similar product, Inhalation (aerosol), 7 day(s))
LC50 Inhalation - Rat (Dust/Mist)	> 5.7 mg/l Source: ECHA
<b>Distillates (petroleum), hydrotreated full-range (91995-46-9)</b>	
ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
Skin corrosion/irritation	: Not classified
<b>Propane (74-98-6)</b>	
pH	No data available in the literature
<b>Sulfonic acids, petroleum, calcium salts (61789-86-4)</b>	
pH	8
<b>Sulfonic acids, petroleum, sodium salts (68608-26-4)</b>	
pH	10

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Zinc 2-ethylhexanoate (136-53-8)	
pH	No data available in the literature
Serious eye damage/irritation	: Causes serious eye irritation.
Propane (74-98-6)	
pH	No data available in the literature
Sulfonic acids, petroleum, calcium salts (61789-86-4)	
pH	8
Sulfonic acids, petroleum, sodium salts (68608-26-4)	
pH	10
Zinc 2-ethylhexanoate (136-53-8)	
pH	No data available in the literature
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: May damage fertility or the unborn child.
Distillates (petroleum), hydrotreated light (64742-47-8)	
NOAEL (animal/male, F0/P)	≥ 3000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Distillates (petroleum), hydrotreated light (64742-47-8)	
NOAEL (oral,rat,90 days)	750 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (dermal,rat/rabbit,90 days)	≥ 495 mg/kg body weight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
Sulfonic acids, petroleum, calcium salts (61789-86-4)	
NOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (dermal,rat/rabbit,90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
Sulfonic acids, petroleum, sodium salts (68608-26-4)	
NOAEL (oral,rat,90 days)	500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (dermal,rat/rabbit,90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
Zinc 2-ethylhexanoate (136-53-8)	
NOAEL (subchronic,oral,animal/male,90 days)	180 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: other:
NOAEL (subchronic,oral,animal/female,90 days)	205 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: other:
Aspiration hazard	: May be fatal if swallowed and enters airways.
Penetrating Oil Aerosol	
Vaporizer	Aerosol

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Penetrating Oil Aerosol	
Viscosity, kinematic	5.892 mm <sup>2</sup> /s @ 40 °C
Propane (74-98-6)	
Viscosity, kinematic	No data available in the literature
Zinc 2-ethylhexanoate (136-53-8)	
Viscosity, kinematic	No data available in the literature
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: May cause eye irritation. Eye irritation.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Risk of lung edema.
Chronic symptoms	: May damage fertility or the unborn child.

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

Ecology - general	: Harmful to aquatic life.
Hazardous to the aquatic environment, short-term (acute)	: Harmful to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Sulfonic acids, petroleum, calcium salts, overbased (68783-96-0)	
LC50 - Fish [1]	40 mg/l Source: International Uniform Chemical Information Database
EC50 - Crustacea [1]	> 1000 mg/l Source: International Uniform Chemical Information Database
EC50 96h - Algae [1]	> 1000 mg/l Source: International Uniform Chemical Information Database
Propane (74-98-6)	
LC50 - Fish [1]	50 mg/l (96 h, Pisces, Fresh water, QSAR, Estimated value)
EC50 96h - Algae [1]	12 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)
Butane (106-97-8)	
LC50 - Fish [1]	27.98 mg/l Source: QSAR
EC50 96h - Algae [1]	16.47 mg/l Source: QSAR
Sulfonic acids, petroleum, calcium salts (61789-86-4)	
EC50 - Crustacea [1]	> 1000 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	> 1000 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
Sulfonic acids, petroleum, sodium salts (68608-26-4)	
LC50 - Fish [1]	0.00000301 mg/l Source: Ecological Structure Activity Relationships
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	> 1000 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

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<b>Zinc 2-ethylhexanoate (136-53-8)</b>	
LC50 - Fish [1]	100 mg/l Source: ECHA
EC50 - Crustacea [1]	0.15 – 0.53 mg/l (48 h, Ceriodaphnia dubia, Literature study, Zinc ion)

### 12.2. Persistence and degradability

<b>Penetrating Oil Aerosol</b>	
Persistence and degradability	Not rapidly degradable

<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
Persistence and degradability	Not rapidly degradable

<b>Sulfonic acids, petroleum, calcium salts, overbased (68783-96-0)</b>	
Persistence and degradability	Not rapidly degradable

<b>Propane (74-98-6)</b>	
Persistence and degradability	Readily biodegradable in water.

<b>Butane (106-97-8)</b>	
Persistence and degradability	Not rapidly degradable

<b>Sulfonic acids, petroleum, calcium salts (61789-86-4)</b>	
Persistence and degradability	Not rapidly degradable

<b>Sulfonic acids, petroleum, sodium salts (68608-26-4)</b>	
Persistence and degradability	Not rapidly degradable

<b>Zinc 2-ethylhexanoate (136-53-8)</b>	
Persistence and degradability	Readily biodegradable in water.

<b>Distillates (petroleum), hydrotreated full-range (91995-46-9)</b>	
Persistence and degradability	Not rapidly degradable

### 12.3. Bioaccumulative potential

<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.3 – 6 Source: IUCLID

<b>Propane (74-98-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.1 – 2.8 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

<b>Butane (106-97-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.89 Source: ICSC

<b>Sulfonic acids, petroleum, sodium salts (68608-26-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	15.87 Source: Quantitative Structure Activity Relation

<b>Zinc 2-ethylhexanoate (136-53-8)</b>	
BCF - Other aquatic organisms [1]	38 (28 day(s), Palaemon elegans, Semi-static system, Marine water, Read-across, Fresh weight)

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Zinc 2-ethylhexanoate (136-53-8)	
Partition coefficient n-octanol/water (Log Pow)	> 5.7 (Read-across, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

### 12.4. Mobility in soil

Propane (74-98-6)	
Surface tension	No data available in the literature
Ecology - soil	Not applicable (gas).

Zinc 2-ethylhexanoate (136-53-8)	
Surface tension	63.62 mN/m (20 °C, 90 %)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.2 (log Koc, Calculated value)
Ecology - soil	Low potential for adsorption in soil.

### 12.5. Other adverse effects





Ozone : Not classified  
Fluorinated greenhouse gases : No

## SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.  
Additional information : Do not re-use empty containers.  
Ecological waste information : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.

## SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
<b>14.1. UN number</b>			
UN1950	UN1950	UN1950	UN1950
<b>14.2. Proper Shipping Name</b>			
Aerosols	AEROSOLS	AEROSOLS	Aerosols, flammable
<b>14.3. Transport hazard class(es)</b>			
2.1	2.1	2.1	2.1
			

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DOT	TDG	IMDG	IATA
<b>14.4. Packing group</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

#### DOT

UN-No. (DOT)	: UN1950
DOT Special Provisions (49 CFR 172.102)	: N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 25 - Shade from radiant heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

#### TDG

UN-No. (TDG)	: UN1950
TDG Special Provisions	: 80 - Despite section 1.17 of Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases), a person must not offer for transport or transport these dangerous goods unless they are in a means of containment that is in compliance with the requirements for transporting gases in Part 5 (Means of Containment), 107 - (1) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport of UN1950, AEROSOLS, and UN2037, GAS CARTRIDGES, that contain dangerous goods included in Class 2.1 or Class 2.2 and that are transported on a road vehicle, a railway vehicle or a vessel on a domestic voyage, if the aerosols or gas cartridges have a capacity less than or equal to 50 mL. (2) Subsection (1) does not apply to self-defence spray.
Explosive Limit and Limited Quantity Index	: 1 L
Excepted quantities (TDG)	: E0
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 75 L
Emergency Response Guide (ERG) Number	: 126

#### IMDG

Special provision (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Limited quantities (IMDG)	: SP277
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P207, LP200
Packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES
EmS-No. (Spillage)	: S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)
Stowage category (IMDG)	: None
Stowage and handling (IMDG)	: SW1, SW22
Segregation (IMDG)	: SG69

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### IATA

Special provision (IATA)	: A145, A167, A802
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
ERG code (IATA)	: 10L

## SECTION 15 Regulatory information

### 15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Distillates (petroleum), hydrotreated full-range	CAS-No. 91995-46-9	1 - 5*%
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This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

##### Distillates (petroleum), hydrotreated light (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List)

##### Sulfonic acids, petroleum, calcium salts, overbased (68783-96-0)

Listed on the Canadian DSL (Domestic Substances List)

##### Propane (74-98-6)

Listed on the Canadian DSL (Domestic Substances List)

##### Butane (106-97-8)

Listed on the Canadian DSL (Domestic Substances List)

##### Sulfonic acids, petroleum, calcium salts (61789-86-4)

Listed on the Canadian DSL (Domestic Substances List)

##### Sulfonic acids, petroleum, sodium salts (68608-26-4)

Listed on the Canadian DSL (Domestic Substances List)

##### Zinc 2-ethylhexanoate (136-53-8)

Listed on the Canadian DSL (Domestic Substances List)

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### Distillates (petroleum), hydrotreated full-range (91995-46-9)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

### EU-Regulations

No additional information available

### National regulations

#### Distillates (petroleum), hydrotreated light (64742-47-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Propane (74-98-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Butane (106-97-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Sulfonic acids, petroleum, sodium salts (68608-26-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### Zinc 2-ethylhexanoate (136-53-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

Revision date : 6/4/2026

Issue date : 9/5/2025

### Full text of hazard classes and H-statements

H220	Extremely flammable gas
H222	Extremely flammable aerosol
H229	Pressurized container; may burst if heated
H280	Contains gas under pressure; may explode if heated
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation

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Full text of hazard classes and H-statements	
H360	May damage fertility or the unborn child
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.