



PETRA FUEL SYSTEM CLEANER SAMPLE CON CODIGO 140122-1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 10/01/2014

Version:

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : PETRA FUEL SYSTEM CLEANER SAMPLE CON CODIGO 140122-1
Product code : 2012

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fuel System Cleaner

1.3. Details of the supplier of the safety data sheet

Petra Oil Company
6100 West by Northwest Blvd. Ste. 190
Ste 190
Houston, TX 77040
T 713-856-5700

1.4. Emergency telephone number

Emergency number : CHEMTRAC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Flam. Liq. 2 H225
Skin Irrit. 2 H315
Carc. 1A H350
Repr. 2 H361
STOT SE 3 H336
STOT RE 2 H373

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) :
H225 - Highly flammable liquid and vapor
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H350 - May cause cancer
H361 - Suspected of damaging fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) :
P201 - Obtain special instructions
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, ventilating, lighting equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P260 - Do not breathe dust, fumes, gas, mist, vapor spray
P261 - Avoid breathing dust, fume, gas, mist, vapor spray
P264 - Wash affected areas thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves, protective clothing, eye protection, face protection
P302+P352 - If on skin: Wash with plenty of soap and water
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P308+P313 - If exposed or concerned: Get medical advice/attention
P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell.
P314 - Get medical advice/attention if you feel unwell.

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P321 - Specific treatment: See section 4.1 on SDS
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: See Section 5.1 Extinguishing Media
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, national, international regulations.

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

70 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
70 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification (GHS-US) |
|---|----------------------|-------------|---|
| Heptane, Branched Cyclic | (CAS No) 426260-76-6 | 67.2 - 70 | Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 |
| n-Heptane | (CAS No) 142-82-5 | 17.5 - 31.5 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Distillates (Petroleum), Hydrotreated Light | (CAS No) 64742-47-8 | <= 19 | Asp. Tox. 1, H304 |
| Xylene, Mixture of Isomers | (CAS No) 1330-20-7 | <= 19 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 |
| Toluene | (CAS No) 108-88-3 | 0.7 - 2.8 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 |
| Distillates (Petroleum), Sweetened Middle | (CAS No) 64741-86-2 | 2 - 2.495 | Carc. 1A, H350 |
| Methyl Isobutyl Ketone | (CAS No) 108-10-1 | 0.11 - 0.55 | Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation:gas), H331 Eye Irrit. 2A, H319 STOT SE 3, H335 |
| Naphtha, Heavy Aromatic | (CAS No) 64742-94-5 | <= 0.245 | Carc. 1B, H350 |
| 2-Methylnaphthalene | (CAS No) 91-57-6 | < 0.0637 | Acute Tox. 4 (Oral), H302 |
| 1-Methylnaphthalene | (CAS No) 90-12-0 | < 0.030625 | Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 |
| Naphthalene | (CAS No) 91-20-3 | < 1 | Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| | TOTAL | 100% | |

The exact percentage is a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

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First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Fatal if swallowed. Immediately call a poison center or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : May damage fertility or the unborn child. Causes damage to organs.
Symptoms/injuries after inhalation : May cause cancer by inhalation. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact : Causes skin irritation. Skin rash/inflammation. Red skin.
Symptoms/injuries after eye contact : May cause slight eye irritation. May cause severe irritation. Inflammation/damage of the eye tissue. Redness of the eye tissue.
Symptoms/injuries after ingestion : Fatal if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable. Highly flammable liquid and vapor.
Explosion hazard : May form flammable/explosive vapor-air mixture.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Safety glasses.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust,fume,gas,mist,vapor spray.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Dam up the liquid spill. Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions . Do not handle until all safety precautions have been read and understood. Avoid breathing dust,fume,gas,mist,vapor spray. Use only outdoors or in a well-ventilated area.
Hygiene measures : Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting equipment.

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| | |
|------------------------|--|
| Storage conditions | : Keep only in the original container in a cool, well ventilated place away from fire. Keep in fireproof place. Keep container tightly closed. |
| Incompatible products | : Strong bases. Strong acids. |
| Incompatible materials | : Sources of ignition. Direct sunlight. Heat sources. |

7.3. Specific end use(s)

Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Toluene (108-88-3) | | |
|--|--------------------------------|---|
| USA ACGIH | ACGIH TWA (mg/m ³) | 75 mg/m ³ |
| USA ACGIH | ACGIH TWA (ppm) | 20 ppm |
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 300 ppm |
| n-Heptane (142-82-5) | | |
| USA ACGIH | ACGIH TWA (ppm) | 400 ppm (Heptane, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| USA ACGIH | ACGIH STEL (ppm) | 500 ppm (Heptane, all isomers; USA; Short time value; TLV - Adopted Value) |
| Heptane, Branched Cyclic (426260-76-6) | | |
| USA ACGIH | ACGIH TWA (ppm) | 400 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 500 ppm |
| USA OSHA | OSHA PEL (TWA) (ppm) | 500 ppm |
| Methyl Isobutyl Ketone (108-10-1) | | |
| USA ACGIH | ACGIH TWA (ppm) | 20 ppm (Methyl isobutyl ketone; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| USA ACGIH | ACGIH STEL (ppm) | 75 ppm (Methyl isobutyl ketone; USA; Short time value; TLV - Adopted Value) |
| Ethanol (64-17-5) | | |
| USA ACGIH | ACGIH STEL (ppm) | 1000 ppm (Ethanol; USA; Short time value; TLV - Adopted Value) |
| 1-Methylnaphthalene (90-12-0) | | |
| USA ACGIH | ACGIH TWA (ppm) | 0.5 ppm (1-methylnaphthalene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| 2-Methylnaphthalene (91-57-6) | | |
| USA ACGIH | ACGIH TWA (ppm) | 0.5 ppm (2-methylnaphthalene; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| Naphtha, Heavy Aromatic (64742-94-5) | | |
| USA ACGIH | ACGIH TWA (mg/m ³) | 25 mg/m ³ 1-METHYLNAPHTHALENE |
| USA ACGIH | ACGIH TWA (ppm) | 0.5 ppm 1-METHYLNAPHTHALENE |

8.2. Exposure controls

Appropriate engineering controls

: Local exhaust ventilation, vent hoods.

Personal protective equipment

: Gloves. Safety glasses. Avoid all unnecessary exposure.



Hand protection

: Wear protective gloves.

Eye protection

: Chemical goggles or safety glasses.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Other information

: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

: Liquid

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| | |
|---|---------------------------------------|
| Appearance | : Colorless to pale yellow liquid. |
| Color | : Colourless to light yellow. |
| Odor | : Characteristic. Solvent-like odour. |
| Odor threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : 88 °C (Lowest Component) |
| Flash point | : -9 °C (Lowest Component) |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : 0.83 |
| Solubility | : Poorly soluble in water. |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosion limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| Toluene (108-88-3) | |
|----------------------------|---|
| LD50 oral rat | 5580 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Literature study; 5580 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rabbit | > 5000 mg/kg body weight LD50 quoted as 14.1 mL/kg (12267 mg/kg using density of 0.87) |
| LC50 inhalation rat (mg/l) | > 28.1 mg/l/4h (Rat; Air, Literature study) |

| Xylene, Mixture of Isomers (1330-20-7) | |
|--|---|
| LD50 oral rat | 3523 - 8600 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 3523 mg/kg bodyweight; Rat; OECD 401: Acute Oral Toxicity; Experimental value; >4000 mg/kg bodyweight; Rat; OECD 401: Acute Oral Toxicity; Experimental value) |
| LD50 dermal rabbit | > 4200.000000 mg/kg (Rabbit; Experimental value, Rabbit; Experimental value) |
| LC50 inhalation rat (mg/l) | 29 mg/l/4h (Rat; Experimental value; 27.57 mg/l/4h; Rat; Experimental value) |

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| | |
|--|---|
| 1-Methoxy-2-Propanol (107-98-2) | |
| LD50 dermal rat | > 2000 mg/kg body weight (Rat; Experimental value; Other) |
| 2-Methoxypropanol (1589-47-5) | |
| LD50 oral rat | 5710 mg/kg (Rat) |
| n-Heptane (142-82-5) | |
| LD50 oral rat | > 15000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; >5000 mg/kg bodyweight; Rat; Read-across) |
| LD50 dermal rabbit | > 3160 mg/kg (Rabbit; Literature study; Equivalent or similar to OECD 402; >2000 mg/kg bodyweight; Rabbit; Read-across) |
| LC50 inhalation rat (mg/l) | 103 mg/l/4h (Rat; Literature study) |
| LC50 inhalation rat (ppm) | 25000 ppm/4h (Rat; Literature study) |
| Heptane, Branched Cyclic (426260-76-6) | |
| LD50 oral rat | > 15000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; >5000 mg/kg bodyweight; Rat; Read-across) |
| LD50 dermal rabbit | > 3160 mg/kg (Rabbit; Literature study; Equivalent or similar to OECD 402; >2000 mg/kg bodyweight; Rabbit; Read-across) |
| LC50 inhalation rat (mg/l) | 103 mg/l/4h (Rat; Literature study) |
| LC50 inhalation rat (ppm) | 25000 ppm/4h (Rat; Literature study) |
| Methyl Isobutyl Ketone (108-10-1) | |
| LD50 oral rat | 2080 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) |
| LD50 dermal rat | >= 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity) |
| LD50 dermal rabbit | > 16000 mg/kg (Rabbit) |
| LC50 inhalation rat (mg/l) | 8.2- 16.4, Rat; Experimental value |
| LC50 inhalation rat (ppm) | 2000 ppm/4h (Rat; Experimental value, Rat; Experimental value) |
| Ethanol (64-17-5) | |
| LD50 oral rat | 10740 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value) |
| LD50 dermal rabbit | > 16000 mg/kg (Rabbit; Literature study) |
| 1-Methylnaphthalene (90-12-0) | |
| LD50 oral rat | 1840 mg/kg (Rat; Literature study) |
| LD50 dermal rabbit | > 5000 mg/kg (Rabbit; Literature study) |
| 2-Methylnaphthalene (91-57-6) | |
| LD50 oral rat | 1630 mg/kg (Rat) |
| Naphthalene (91-20-3) | |
| ATE CLP (oral) | 500.000 mg/kg body weight |
| Naphtha, Heavy Aromatic (64742-94-5) | |
| LD50 oral rat | > 5000 mg/kg (Rat) |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit) |
| LC50 inhalation rat (mg/l) | > 5 mg/l/4h (Rat) |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified Based on available data, the classification criteria are not met |
| Carcinogenicity | : May cause cancer. |
| Toluene (108-88-3) | |
| IARC group | 3 |
| Xylene, Mixture of Isomers (1330-20-7) | |
| IARC group | 3 |
| Ethanol (64-17-5) | |
| IARC group | 1 |
| Naphtha, Heavy Aromatic (64742-94-5) | |
| IARC group | 2B |
| National Toxicology Program (NTP) Status | 3 |
| Reproductive toxicity | : Suspected of damaging fertility or the unborn child. |
| Specific target organ toxicity (single exposure) | : May cause drowsiness or dizziness. |
| Specific target organ toxicity (repeated exposure) | : May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : Not classified |

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| | |
|---|--|
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. Fatal if swallowed. |
| Symptoms/injuries after inhalation | : May cause cancer by inhalation. May cause drowsiness or dizziness. |
| Symptoms/injuries after skin contact | : Causes skin irritation. Skin rash/inflammation. Red skin. |
| Symptoms/injuries after eye contact | : May cause slight eye irritation . May cause severe irritation. Inflammation/damage of the eye tissue. Redness of the eye tissue. |
| Symptoms/injuries after ingestion | : Fatal if swallowed. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| 1-Methoxy-2-Propanol (107-98-2) | |
| Threshold limit algae 1 | > 1000 mg/l (EC50; Other; 168 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value) |
| n-Heptane (142-82-5) | |
| EC50 Daphnia 1 | 0.2 mg/l (LC50; Other; 96 h; Chaetogammarus marinus; Semi-static system; Salt water; Experimental value) |
| Ethanol (64-17-5) | |
| LC50 fish 1 | 14200 mg/l (LC50; US EPA; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) |
| 1-Methylnaphthalene (90-12-0) | |
| LC50 fish 1 | 8.4 mg/l (LC50; 48 h; Salmo fario) |
| EC50 Daphnia 1 | 1.848 mg/l (LC50; 48 h) |
| LC50 fish 2 | 9 mg/l (LC50; 96 h; Pimephales promelas) |
| EC50 Daphnia 2 | 1.2 mg/l (EC50; 48 h) |
| Threshold limit algae 1 | 1.71 - 5.12, EC50; 3 h |
| Threshold limit algae 2 | 1200 µg/l (EC50; 14 days) |
| 2-Methylnaphthalene (91-57-6) | |
| LC50 fish 1 | 8 mg/l (LC50; 96 h) |
| Naphtha, Heavy Aromatic (64742-94-5) | |
| EC50 Daphnia 1 | 0.95 mg/l (EC50; 48 h) |
| LC50 fish 2 | 2.34 mg/l (LC50; 96 h; Oncorhynchus mykiss) |
| Threshold limit algae 2 | 2.5 mg/l (EC50; 72 h) |

12.2. Persistence and degradability

| | |
|---|---|
| PETRA FUEL SYSTEM CLEANER SAMPLE CON CODIGO 140122-1 | |
| Persistence and degradability | Not established. |
| Toluene (108-88-3) | |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil. |
| Biochemical oxygen demand (BOD) | 2.15 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.52 g O ₂ /g substance |
| ThOD | 3.13 g O ₂ /g substance |
| BOD (% of ThOD) | 0.69 |
| Xylene, Mixture of Isomers (1330-20-7) | |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available. Photolysis in the air. |
| 1-Methoxy-2-Propanol (107-98-2) | |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. Photodegradation in the air. |
| ThOD | 1.95 g O ₂ /g substance |
| 2-Methoxypropanol (1589-47-5) | |
| Persistence and degradability | Biodegradability in water: no data available. |
| n-Heptane (142-82-5) | |
| Persistence and degradability | Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Low potential for adsorption in soil. Photolysis in the air. |
| Biochemical oxygen demand (BOD) | 1.92 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 0.06 g O ₂ /g substance |
| ThOD | 3.52 g O ₂ /g substance |
| BOD (% of ThOD) | > 0.5 (5 days; Literature study) |
| Heptane, Branched Cyclic (426260-76-6) | |
| Persistence and degradability | May cause long-term adverse effects in the environment. |

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| Methyl Isobutyl Ketone (108-10-1) | |
|---|--|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Low potential for adsorption in soil. Photolysis in the air. Not established. |
| Biochemical oxygen demand (BOD) | 2.06 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.16 g O ₂ /g substance |
| ThOD | 2.72 g O ₂ /g substance |
| BOD (% of ThOD) | 0.76 |
| Ethanol (64-17-5) | |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. Not established. |
| Biochemical oxygen demand (BOD) | 0.8 - 0.967 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.70 g O ₂ /g substance |
| ThOD | 2.10 g O ₂ /g substance |
| BOD (% of ThOD) | 0.43 |
| Distillates (Petroleum), Sweetened Middle (64741-86-2) | |
| Persistence and degradability | Not established. |
| 1-Methylnaphthalene (90-12-0) | |
| Persistence and degradability | Not readily biodegradable in water. Forming sediments in water. |
| 2-Methylnaphthalene (91-57-6) | |
| Persistence and degradability | Inherently biodegradable. Not readily biodegradable in water. |
| Naphthalene (91-20-3) | |
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| Naphtha, Heavy Aromatic (64742-94-5) | |
| Persistence and degradability | Not readily biodegradable in water. |
| Polyether Amine (Confidential) | |
| Persistence and degradability | Not established. |
| 12.3. Bioaccumulative potential | |
| PETRA FUEL SYSTEM CLEANER SAMPLE CON CODIGO 140122-1 | |
| Bioaccumulative potential | Not established. |
| Toluene (108-88-3) | |
| BCF fish 2 | 90 (BCF; 72 h; <i>Leuciscus idus</i> ; Static system; Fresh water) |
| Log Pow | 2.73 (Experimental value; Other; 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| Xylene, Mixture of Isomers (1330-20-7) | |
| BCF fish 2 | 7 - 26 (BCF; 8 weeks; <i>Oncorhynchus mykiss</i> ; Flow-through system; Fresh water) |
| Log Pow | 3.2 (Conclusion by analogy; 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| 1-Methoxy-2-Propanol (107-98-2) | |
| BCF fish 1 | 1 (BCF) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| 2-Methoxypropanol (1589-47-5) | |
| Log Pow | -0.49 (Estimated value) |
| Bioaccumulative potential | Bioaccumulation: not applicable. |
| n-Heptane (142-82-5) | |
| BCF other aquatic organisms 1 | 552 (BCF; BCFBAF v3.00) |
| Log Pow | 4.66 (Experimental value; 4.5; Literature study) |
| Bioaccumulative potential | Potential for bioaccumulation (4 ≥ Log Kow ≤ 5). |
| Heptane, Branched Cyclic (426260-76-6) | |
| Bioaccumulative potential | Not established. |
| Methyl Isobutyl Ketone (108-10-1) | |
| BCF fish 1 | 2 - 5 (BCF) |
| Log Pow | 1.9 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). Not established. |
| Ethanol (64-17-5) | |
| BCF fish 1 | 1 (BCF; Other; 72 h; <i>Cyprinus carpio</i> ; Static system; Fresh water; Read-across) |
| Log Pow | -0.31 (Experimental value) |

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| | |
|---|---|
| Ethanol (64-17-5) | |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). Not established. |
| Distillates (Petroleum), Sweetened Middle (64741-86-2) | |
| Bioaccumulative potential | Not established. |
| 1-Methylnaphthalene (90-12-0) | |
| BCF fish 1 | 20 (BCF; 5 weeks) |
| BCF fish 2 | 113-2000,BCF; 1 - 2 weeks |
| Log Pow | 3.87 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| 2-Methylnaphthalene (91-57-6) | |
| BCF fish 1 | 407 (BCF; 624 h; Lepomis macrochirus) |
| BCF fish 2 | 190 (BCF; 840 h; Oncorhynchus kisutch) |
| Log Pow | 3.86 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| Naphthalene (91-20-3) | |
| Bioaccumulative potential | Not established. |
| Naphtha, Heavy Aromatic (64742-94-5) | |
| Log Pow | 2.9 - 6.1 |
| Bioaccumulative potential | Bioaccumulable. |
| Polyether Amine (Confidential) | |
| Bioaccumulative potential | Not established. |
| 12.4. Mobility in soil | |
| Toluene (108-88-3) | |
| Surface tension | 0.03 N/m (20 °C) |
| Xylene, Mixture of Isomers (1330-20-7) | |
| Ecology - soil | May be harmful to plant growth, blooming and fruit formation. |
| 1-Methoxy-2-Propanol (107-98-2) | |
| Surface tension | 0.0707 N/m (20 °C; 1 g/l) |
| n-Heptane (142-82-5) | |
| Surface tension | 0.019 N/m (25 °C; 0.020 N/m; 20 °C) |
| Log Koc | log Koc, SRC PCKOCWIN v2.0; 2.38; Calculated value |
| Methyl Isobutyl Ketone (108-10-1) | |
| Surface tension | 0.024 N/m (20 °C) |
| Log Koc | Koc, 101.85; Weight of evidence; Calculated value; log Koc; 2.008; Weight of evidence; Calculated value |
| Ethanol (64-17-5) | |
| Surface tension | 0.022 N/m (20 °C) |
| Log Koc | Koc, PCKOCWIN v1.66; 1; Read-across |
| 1-Methylnaphthalene (90-12-0) | |
| Log Koc | Koc, 2300 |

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

US DOT (ground): UN1993, Flammable liquids, n.o.s. (Heptane, Xylene, Ethanol), 3, II, Limited Quantity

ICAO/IATA (air): UN1993, Flammable liquids, n.o.s. (Heptane, Xylene, Ethanol), 3, II, Limited Quantity

IMO/IMDG (water): UN1993, Flammable liquids, n.o.s. (Heptane, Xylene, Ethanol), 3, II, Limited Quantity

Special Provisions: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).
TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Flammable liquids, n.o.s. (Heptane, Xylene, Ethanol)
Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT) : 3 - Flammable liquid



DOT Symbols : G - Identifies PSN requiring a technical name
Packing group (DOT) : II - Medium Danger
DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).
TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242

14.3. Additional information

Other information : No supplementary information available.

Overland transport

No additional information available

Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L
(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

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SECTION 15: Regulatory information

15.1. US Federal regulations

PETRA FUEL SYSTEM CLEANER SAMPLE CON CODIGO 140122-1

| | |
|-------------------------------------|---|
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard |
|-------------------------------------|---|

Toluene (108-88-3)

Subject to reporting requirements of United States SARA Section 313
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the United States SARA Section 302

| | |
|-------------------------------------|---|
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard |
|-------------------------------------|---|

Xylene, Mixture of Isomers (1330-20-7)

| | |
|-------------------------------------|-------------|
| SARA Section 311/312 Hazard Classes | Fire hazard |
|-------------------------------------|-------------|

Heptane, Branched Cyclic (426260-76-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

| | |
|-------------------------------------|---|
| SARA Section 311/312 Hazard Classes | Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard |
|-------------------------------------|---|

Naphthalene (91-20-3)

| | |
|-------------------------------------|--|
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard Immediate (acute) health hazard |
|-------------------------------------|--|

Naphtha, Heavy Aromatic (64742-94-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

| | |
|-------------------------------------|---------------------------------|
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard |
|-------------------------------------|---------------------------------|

| | |
|---------------------------------------|--------------------------------|
| SARA Section 313 - Emission Reporting | 14 % Naphthalene (CAS 91-20-3) |
|---------------------------------------|--------------------------------|

15.2. International regulations

CANADA

PETRA FUEL SYSTEM CLEANER SAMPLE CON CODIGO 140122-1

| | |
|----------------------|--|
| WHMIS Classification | Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|--|

Toluene (108-88-3)

Listed on the Canadian DSL (Domestic Substances List)

| | |
|----------------------|--|
| WHMIS Classification | Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|--|

Heptane, Branched Cyclic (426260-76-6)

| | |
|----------------------|--|
| WHMIS Classification | Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|--|

Naphthalene (91-20-3)

| | |
|----------------------|---|
| WHMIS Classification | Class B Division 4 - Flammable Solid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects |
|----------------------|---|

Naphtha, Heavy Aromatic (64742-94-5)

EU-Regulations

Toluene (108-88-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Heptane, Branched Cyclic (426260-76-6)

Naphtha, Heavy Aromatic (64742-94-5)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.2; R45

F; R11

Xn; R20/21

Xi; R38

N; R50/53

Full text of R-phrases: see section 16

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15.2.2. National regulations

Heptane, Branched Cyclic (426260-76-6)

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA under 40 CFR 720.30.

Naphtha, Heavy Aromatic (64742-94-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

15.3. US State regulations

PETRA FUEL SYSTEM CLEANER SAMPLE CON CODIGO 140122-1

| | |
|---|---|
| U.S. - California - Proposition 65 - Carcinogens List | No |
| U.S. - California - Proposition 65 - Developmental Toxicity | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No |
| State or local regulations | U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL) |

Toluene (108-88-3)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | Yes | Yes | No | |

Xylene, Mixture of Isomers (1330-20-7)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

1-Methoxy-2-Propanol (107-98-2)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

2-Methoxypropanol (1589-47-5)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

n-Heptane (142-82-5)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

Heptane, Branched Cyclic (426260-76-6)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

Methyl Isobutyl Ketone (108-10-1)

| | | | | |
|---|---|--|--|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - | U.S. - California - Proposition 65 - Reproductive Toxicity - | No significant risk level (NSRL) |
|---|---|--|--|----------------------------------|

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Methyl Isobutyl Ketone (108-10-1)

| | | | | |
|-----|----|--------|------|--|
| | | Female | Male | |
| Yes | No | No | No | |

Ethanol (64-17-5)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| Yes | Yes | No | No | |

Distillates (Petroleum), Sweetened Middle (64741-86-2)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

1-Methylnaphthalene (90-12-0)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

2-Methylnaphthalene (91-57-6)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

Naphthalene (91-20-3)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

Naphtha, Heavy Aromatic (64742-94-5)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| Yes | No | Yes | Yes | |

Polyether Amine (Confidential)

| | | | | |
|---|---|---|---|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

Toluene (108-88-3)

State or local regulations

| |
|---|
| U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL) |
| U.S. - New Jersey - Special Health Hazards Substances List |
| New Jersey Right-to-Know |
| U.S. - Massachusetts - Right To Know List |
| Rhode Island Right to Know |
| U.S. - Michigan - Critical Materials List |
| U.S. - New Jersey - Environmental Hazardous Substances List |
| U.S. - Illinois - Toxic Air Contaminants |
| U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances |
| U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List |

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Methyl Isobutyl Ketone (108-10-1)

State or local regulations

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

Ethanol (64-17-5)

State or local regulations

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

Naphthalene (91-20-3)

State or local regulations

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Massachusetts - Right To Know List

Naphtha, Heavy Aromatic (64742-94-5)

State or local regulations

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

Illinois Right to Know

Louisiana Right to Know

Michigan Right to Know

Minnesota Right-to-Know

New Jersey Right-to-Know

U.S. - Pennsylvania - RTK (Right to Know) List

Rhode Island Right to Know

SECTION 16: Other information

Indication of changes

: Revision - See : *.

Other information

: None.

Full text of H-phrases:

| | |
|-------------------------------------|--|
| Acute Tox. 3 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Carc. 1A | Carcinogenicity Category 1A |
| Carc. 1B | Carcinogenicity Category 1B |
| Carc. 2 | Carcinogenicity Category 2 |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Flam. Liq. 1 | Flammable liquids Category 1 |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Flam. Liq. 4 | Flammable liquids Category 4 |
| Repr. 2 | Reproductive toxicity Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| STOT RE 2 | Specific target organ toxicity (repeated exposure) Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H224 | Extremely flammable liquid and vapor |
| H225 | Highly flammable liquid and vapor |
| H226 | Flammable liquid and vapor |
| H227 | Combustible liquid |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| H350 | May cause cancer |
| H351 | Suspected of causing cancer |
| H361 | Suspected of damaging fertility or the unborn child |

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| | |
|------|---|
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

NFPA health hazard

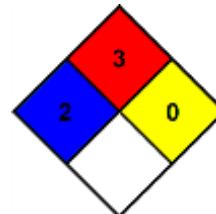
: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard

: 3 - Liquids and solids that can be ignited under almost all ambient conditions.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability

: 3 Serious Hazard

Physical

: 0 Minimal Hazard

Personal Protection

: B

SDS US (GHS HazCom 2012) - TCC

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product

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