



PETRA AIR INTAKE CLEANER 12 FL.OZ.

Safety Data Sheet

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

Revision date: 10/23/2014

Version:

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

1.1. Product identifier

Product form : Mixture
Trade name : PETRA AIR INTAKE CLEANER 12 FL.OZ.
Product code : PETRA2007B

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

Use of the substance/mixture : Intake 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 : CHEMTREC 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
Eye Irrit. 2A H319
Carc. 1A H350
Repr. 1B H360
STOT SE 3 H336
Asp. Tox. 1 H304

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
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H350 - May cause cancer
H360 - May damage fertility or the unborn child

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
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
P301+P310 - If swallowed: Immediately call a poison control center, doctor, physician,
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
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

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P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell.
P321 - Specific treatment: See section 4.1 on SDS
P331 - Do NOT induce vomiting
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: 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, regional, 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)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification (GHS-US) |
|---|-----------------------|--------------|---|
| Xylene, Mixture of Isomers | (CAS No) 1330-20-7 | 25.6 - 32 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 |
| Acetone | (CAS No) 67-64-1 | 10 - 30 | Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336 |
| Distillates (Petroleum), Hydrotreated Light | (CAS No) 64742-47-8 | 10 - 30 | Asp. Tox. 1, H304 |
| 1-Methyl-2-Pyrrolidone | (CAS No) 872-50-4 | 10 - 30 | Flam. Liq. 4, H227 Eye Irrit. 2A, H319 Repr. 1B, H360 STOT SE 3, H335 |
| 2-Propanol | (CAS No) 67-63-0 | 5 - 10 | Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336 |
| Ethylbenzene | (CAS No) 100-41-4 | 4.8 - 6.4 | Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:vapour), H332 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 |
| Distillates (Petroleum), Sweetened Middle | (CAS No) 64741-86-2 | 2 - 2.495 | Carc. 1A, H350 |
| Polyether Amine | (CAS No) Confidential | 1.5 - 1.995 | Flam. Liq. 4, H227 |
| Naphtha, Heavy Aromatic | (CAS No) 64742-94-5 | <= 0.245 | Carc. 1B, H350 |
| Toluene | (CAS No) 108-88-3 | 0.032 - 0.16 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 |
| 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.

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- 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 : Rinse mouth. Do NOT induce vomiting. 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.
- Symptoms/injuries after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. Irritation of the respiratory tract. Dizziness. Coughing. May cause cancer by inhalation. May cause drowsiness or dizziness.
- Symptoms/injuries after skin contact : Dry skin. Itching. Red skin. Skin rash/inflammation. Causes skin irritation.
- Symptoms/injuries after eye contact : Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue. Causes serious eye irritation.
- Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

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 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 contaminated clothing before reuse. Wash affected areas thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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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. |
| Storage conditions | : Keep only in the original container in a cool, well ventilated place away from : 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

| Benzene (71-43-2) | | |
|--|--------------------------------------|---|
| USA ACGIH | ACGIH TWA (ppm) | 1 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 5 ppm |
| USA ACGIH | ACGIH Ceiling (ppm) | 25 ppm |
| USA OSHA | OSHA PEL (TWA) (ppm) | 1 ppm |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 5 ppm |
| 2-Propanol (67-63-0) | | |
| USA ACGIH | ACGIH TWA (mg/m ³) | 980 mg/m ³ |
| USA ACGIH | ACGIH TWA (ppm) | 400 ppm |
| USA ACGIH | ACGIH STEL (mg/m ³) | 1225 mg/m ³ |
| USA ACGIH | ACGIH STEL (ppm) | 500 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 980 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 400 ppm |
| 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 |
| Distillates (Petroleum), Hydrotreated Light (64742-47-8) | | |
| USA ACGIH | ACGIH TWA (ppm) | 200 ppm 8 Hours |
| Acetone (67-64-1) | | |
| USA ACGIH | ACGIH TWA (mg/m ³) | 1188 mg/m ³ |
| USA ACGIH | ACGIH TWA (ppm) | 500 ppm |
| USA ACGIH | ACGIH STEL (mg/m ³) | 1782 mg/m ³ |
| USA ACGIH | ACGIH STEL (ppm) | 750 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 2400 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 1000 ppm |
| Ethylbenzene (100-41-4) | | |
| USA ACGIH | ACGIH TWA (ppm) | 100 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 125 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 435 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 100 |
| USA OSHA | OSHA PEL (STEL) (mg/m ³) | 545 mg/m ³ |
| USA OSHA | OSHA PEL (STEL) (ppm) | 125 ppm |

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| 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 |

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. Wear respiratory protection.
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
Appearance : Liquid.
Molecular mass : 58.08 g/mol
Color : Colourless to light yellow.
Odor : Characteristic. Strong odour.
Odor threshold : 306 - 653 ppm
737 - 1574 mg/m³
pH : 7
Relative evaporation rate (butyl acetate=1) : 6
Relative evaporation rate (ether=1) : 2
Melting point : -95 °C (Lowest Component)
Freezing point : No data available
Boiling point : 56 °C (Lowest Component)
Flash point : -18 °C (Lowest Component)
Critical temperature : 235 °C (Lowest Component)
Auto-ignition temperature : 465 °C (Lowest Component)
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : 247 hPa
Vapor pressure at 50 °C : 828 hPa
Relative vapor density at 20 °C : 2.0
Relative density : 0.844
Relative density of saturated gas/air mixture : 1.2
Specific gravity / density : 844 kg/m³
Solubility : Soluble in water. Soluble in ethanol. Soluble in ether. Soluble in dimethyl ether. Soluble in petroleum spirit. Soluble in chloroform. Soluble in dimethylformamide. Soluble in oils/fats.
Water: Complete
Ethanol: Complete
Ether: Complete
Log Pow : -0.24 (Test data)
Log Kow : No data available
Viscosity, kinematic : 0.417 mm²/s
Viscosity, dynamic : 0.00033 Pa.s
Explosive properties : No data available
Oxidizing properties : No data available
Explosion limits : 2 - 12.8 vol %
60 - 310 g/m³

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9.2. Other information

| | |
|--------------------------|------------------------|
| Minimum ignition energy | : 1.15 mJ |
| Specific conductivity | : 500000 pS/m |
| Saturation concentration | : 589 g/m ³ |
| VOC content | : 50 % |

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

| Benzene (71-43-2) | |
|---|--|
| LD50 oral rat | > 930 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; > 2000 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rabbit | > 8240 mg/kg (Rabbit; Experimental value; 21 CFR 191.10; > 9.4; Rabbit) |
| LC50 inhalation rat (mg/l) | 43.767 mg/l/4h (Rat; Experimental value) |
| LC50 inhalation rat (ppm) | 13700 ppm/4h (Rat; Experimental value) |
| 1-Methyl-2-Pyrrolidone (872-50-4) | |
| LD50 oral rat | 3914 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 4150 mg/kg bodyweight; Rat; Experimental value) |
| 2-Propanol (67-63-0) | |
| LD50 dermal rabbit | 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) |
| LC50 inhalation rat (mg/l) | 73 mg/l/4h (Rat) |
| 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) |
| Distillates (Petroleum), Hydrotreated Light (64742-47-8) | |
| LD50 oral rat | > 5000 mg/kg body weight |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 5.28 mg/l/4h Based on lack of mortality and systemic effects |
| Acetone (67-64-1) | |
| LD50 oral rat | 5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value) |
| LD50 dermal rabbit | 20000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402) |
| LC50 inhalation rat (mg/l) | 71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value) |
| LC50 inhalation rat (ppm) | 30000 ppm/4h (Rat; Experimental value) |

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| 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) |
| Ethylbenzene (100-41-4) | |
| LD50 oral rat | 3500 mg/kg (Rat; Other; Experimental value) |
| LD50 dermal rabbit | 15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value) |
| LC50 inhalation rat (mg/l) | 17.8 mg/l/4h (Rat; Literature study) |
| LC50 inhalation rat (ppm) | 4000 ppm/4h (Rat; Literature study) |
| 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) |

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Causes skin irritation. pH: 7 |
| Serious eye damage/irritation | : Causes serious eye irritation. pH: 7 |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : May cause cancer. |

| Benzene (71-43-2) | |
|---|----|
| IARC group | 1 |
| 2-Propanol (67-63-0) | |
| IARC group | 3 |
| Naphtha, Heavy Aromatic (64742-94-5) | |
| IARC group | 2B |
| National Toxicology Program (NTP) Status | 3 |
| Xylene, Mixture of Isomers (1330-20-7) | |
| IARC group | 3 |
| Ethylbenzene (100-41-4) | |
| IARC group | 2B |
| Toluene (108-88-3) | |
| IARC group | 3 |

| | |
|---|---|
| Reproductive toxicity | : May damage fertility or the unborn child. |
| Specific target organ toxicity (single exposure) | : May cause drowsiness or dizziness. |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/injuries after inhalation | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. Irritation of the respiratory tract. Dizziness. Coughing. May cause cancer by inhalation. May cause drowsiness or dizziness. |
| Symptoms/injuries after skin contact | : Dry skin. Itching. Red skin. Skin rash/inflammation. Causes skin irritation. |
| Symptoms/injuries after eye contact | : Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue. Causes serious eye irritation. |
| Symptoms/injuries after ingestion | : May be fatal if swallowed and enters airways. |

SECTION 12: Ecological information

12.1. Toxicity

| Benzene (71-43-2) | |
|--------------------------|---|
| LC50 fish 1 | 5.3 mg/l (LC50; 96 h; Salmo gairdneri) |
| EC50 Daphnia 2 | 10 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna) |
| Threshold limit algae 1 | 100 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value) |

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| | |
|---|---|
| Acetone (67-64-1) | |
| EC50 Daphnia 2 | 12600 mg/l (LC50; Other; 48 h; Daphnia magna; Static system; Fresh water; Experimental value) |
| 1-Methyl-2-Pyrrolidone (872-50-4) | |
| LC50 fish 1 | 3048 mg/l (LC50; 96 h; Salmo gairdneri) |
| EC50 Daphnia 1 | 4897 mg/l (EC50; 48 h; Daphnia magna) |
| Threshold limit algae 1 | > 500 mg/l (EC50) |
| Threshold limit algae 2 | 600.5 mg/l (EC50; DIN 38412-9; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value) |
| 2-Propanol (67-63-0) | |
| LC50 fish 2 | 9640 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) |
| EC50 Daphnia 2 | 13299 mg/l (EC50; Other; 48 h; Daphnia magna) |
| Threshold limit algae 1 | > 1000 mg/l (EC50; UBA; 72 h; Scenedesmus subspicatus) |
| 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) |
| Acetone (67-64-1) | |
| LC50 fish 1 | 6210 mg/l (96 h; Pimephales promelas; Nominal concentration) |
| EC50 Daphnia 1 | 8800 mg/l (48 h; Daphnia pulex) |
| LC50 fish 2 | 5540 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) |
| TLM fish 1 | 13000 ppm (96 h; Gambusia affinis; Turbulent water) |
| TLM fish 2 | > 1000 ppm (96 h; Pisces) |
| Threshold limit other aquatic organisms 1 | 3000 mg/l (Plankton) |
| Threshold limit other aquatic organisms 2 | 28 mg/l (Protozoa) |
| Threshold limit algae 1 | 7500 mg/l (Scenedesmus quadricauda; pH = 7) |
| Threshold limit algae 2 | 3400 mg/l (48 h; Chlorella sp.) |
| Ethylbenzene (100-41-4) | |
| LC50 fish 2 | 4.2 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Salmo gairdneri; Semi-static system; Fresh water; Experimental value) |
| 12.2. Persistence and degradability | |
| PETRA AIR INTAKE CLEANER 12 FL.OZ. | |
| Persistence and degradability | Not established. |
| Benzene (71-43-2) | |
| Persistence and degradability | Readily biodegradable in water. Ozonation in water. Forming sediments in water. Biodegradable in the soil. Low potential for adsorption in soil. Photolysis in the air. |
| Biochemical oxygen demand (BOD) | 2.18 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.15 g O ₂ /g substance |
| ThOD | 3.10 g O ₂ /g substance |
| BOD (% of ThOD) | 0.70 |
| Acetone (67-64-1) | |
| Persistence and degradability | Not established. |
| 1-Methyl-2-Pyrrolidone (872-50-4) | |
| Persistence and degradability | Readily biodegradable in water. Inherently biodegradable. Biodegradable in the soil. Highly mobile in soil. Photodegradation in the air. |
| Biochemical oxygen demand (BOD) | 1.07 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.56 g O ₂ /g substance |
| ThOD | 1.9 g O ₂ /g substance |
| BOD (% of ThOD) | 0.56 |

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| 2-Propanol (67-63-0) | |
|---|---|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available. |
| Biochemical oxygen demand (BOD) | 1.19 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.23 g O ₂ /g substance |
| ThOD | 2.40 g O ₂ /g substance |
| 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. |
| Distillates (Petroleum), Hydrotreated Light (64742-47-8) | |
| Persistence and degradability | Not established. |
| Acetone (67-64-1) | |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available. Not established. |
| Biochemical oxygen demand (BOD) | 1.43 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.92 g O ₂ /g substance |
| ThOD | 2.20 g O ₂ /g substance |
| BOD (% of ThOD) | (20 day(s)) 0.872 |
| 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. |
| Ethylbenzene (100-41-4) | |
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil. |
| Biochemical oxygen demand (BOD) | 1.44 g O ₂ /g substance (20d.) |
| Chemical oxygen demand (COD) | 2.1 g O ₂ /g substance |
| ThOD | 3.17 g O ₂ /g substance |
| BOD (% of ThOD) | 45.4 (20 days) |
| 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 |
| 12.3. Bioaccumulative potential | |
| PETRA AIR INTAKE CLEANER 12 FL.OZ. | |
| Log Pow | -0.24 (Test data) |
| Bioaccumulative potential | Not established. |
| Benzene (71-43-2) | |
| BCF fish 1 | 19 (BCF) |
| BCF fish 2 | < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value) |
| BCF other aquatic organisms 1 | 30 (BCF; 24 h; Chlorella sp.) |
| Log Pow | 2.13 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| Acetone (67-64-1) | |
| Bioaccumulative potential | Not established. |

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| | |
|---|---|
| 1-Methyl-2-Pyrrolidone (872-50-4) | |
| Log Pow | -0.73 - -0.46 (Experimental value; Experimental value; OECD 107: Partition Coefficient (n-octanol/water); Shake Flask Method) |
| Bioaccumulative potential | Not bioaccumulative. |
| 2-Propanol (67-63-0) | |
| Log Pow | 0.05 (Weight of evidence approach; Other; 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| 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 | Bioaccumable. |
| Polyether Amine (Confidential) | |
| Bioaccumulative potential | Not established. |
| Distillates (Petroleum), Hydrotreated Light (64742-47-8) | |
| Bioaccumulative potential | Not established. |
| Acetone (67-64-1) | |
| BCF fish 1 | 0.69 (Pisces) |
| BCF other aquatic organisms 1 | 3 |
| Log Pow | -0.24 (Test data) |
| Bioaccumulative potential | Not bioaccumulative. Not established. |
| Xylene, Mixture of Isomers (1330-20-7) | |
| BCF fish 2 | 7 - 26 (BCF; 8 weeks; Oncorhynchus mykiss; Flow-through system; Fresh water) |
| Log Pow | 3.2 (Conclusion by analogy; 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| Ethylbenzene (100-41-4) | |
| BCF fish 1 | 1 (BCF; Other; 6 weeks; Oncorhynchus kisutch; Flow-through system; Salt water; Literature study) |
| BCF fish 2 | 15 - 79 (BCF) |
| BCF other aquatic organisms 1 | 4.68 (BCF) |
| Log Pow | 3.15 (Experimental value; 3.6; Experimental value; EU Method A.8: Partition Coefficient; 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| Toluene (108-88-3) | |
| BCF fish 2 | 90 (BCF; 72 h; Leuciscus idus; Static system; Fresh water) |
| Log Pow | 2.73 (Experimental value; Other; 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| 12.4. Mobility in soil | |
| Benzene (71-43-2) | |
| Surface tension | 0.029 N/m (20 °C) |
| Log Koc | Koc,134.1; QSAR |
| 1-Methyl-2-Pyrrolidone (872-50-4) | |
| Surface tension | 0.407 N/m |
| Log Koc | Koc,20.94; Calculated value; log Koc; 1.32; Calculated value |

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| | |
|---|--|
| 2-Propanol (67-63-0) | |
| Surface tension | 0.021 N/m (25 °C) |
| 1-Methylnaphthalene (90-12-0) | |
| Log Koc | Koc,2300 |
| Acetone (67-64-1) | |
| Surface tension | 0.0237 N/m (20 °C) |
| Xylene, Mixture of Isomers (1330-20-7) | |
| Ecology - soil | May be harmful to plant growth, blooming and fruit formation. |
| Ethylbenzene (100-41-4) | |
| Surface tension | 0.029 N/m |
| Log Koc | log Koc,PCKOCWIN v1.66; 2.71; Calculated value; Koc; PCKOCWIN v1.66; 517.8; Calculated value |
| Toluene (108-88-3) | |
| Surface tension | 0.03 N/m (20 °C) |

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.

SECTION 14: Transport information

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

US DOT (ground): UN1993, Flammable liquids, n.o.s. (Acetone, Xylene, Petroleum distillates), 3, II, Limited Quantity

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

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

Special Provisions: B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.

B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T4 - 2.65 178.274(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.

TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, 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. (Acetone, Xylene, Petroleum distillates)

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

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| | |
|---|---|
| DOT Special Provisions (49 CFR 172.102) | : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(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. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, 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) | : 203 |
| 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 : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 60 L
(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L
CFR 175.75)

SECTION 15: Regulatory information

15.1. US Federal regulations

| | |
|--|---|
| PETRA AIR INTAKE CLEANER 12 FL.OZ. | |
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard |
| Benzene (71-43-2) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |
| 2-Propanol (67-63-0) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Fire 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) |
| Distillates (Petroleum), Hydrotreated Light (64742-47-8) | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Delayed (chronic) health hazard |
| Acetone (67-64-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 | |

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| | |
|--|---|
| Acetone (67-64-1) | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Fire hazard Delayed (chronic) health hazard |
| Xylene, Mixture of Isomers (1330-20-7) | |
| SARA Section 311/312 Hazard Classes | Fire hazard |
| Ethylbenzene (100-41-4) | |
| Subject to reporting requirements of United States SARA Section 313 Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Fire hazard Delayed (chronic) 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 |

15.2. International regulations

CANADA

| | |
|---|--|
| PETRA AIR INTAKE CLEANER 12 FL.OZ. | |
| WHMIS Classification | Class B Division 2 - Flammable Liquid |
| Benzene (71-43-2) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| 2-Propanol (67-63-0) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class B Division 2 - Flammable Liquid |
| 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) | |
| Distillates (Petroleum), Hydrotreated Light (64742-47-8) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
| Acetone (67-64-1) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
| Ethylbenzene (100-41-4) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| 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 |

EU-Regulations

| | |
|--|--|
| 2-Propanol (67-63-0) | |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) | |
| Naphtha, Heavy Aromatic (64742-94-5) | |
| Acetone (67-64-1) | |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)- Directive 79/831/EEC, sixth Amendment of Directive 67/548/EEC (dangerous substances) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) | |
| Ethylbenzene (100-41-4) | |
| Toluene (108-88-3) | |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) | |

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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

Repr.Cat.2; R61

F; R11

Xn; R20/21

Xi; R36/37/38

Full text of R-phrases: see section 16

15.2.2. National regulations

Benzene (71-43-2)

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

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

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

Listed on the AICS (Australian Inventory of Chemical Substances)

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

2-Propanol (67-63-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

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)

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)

Acetone (67-64-1)

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

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

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the AICS (Australian Inventory of Chemical Substances)

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

Listed on the Korean ECL (Existing Chemicals List)

Ethylbenzene (100-41-4)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

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)

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

Toluene (108-88-3)

15.3. US State regulations

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| | |
|---|---|
| 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) |

Benzene (71-43-2)

| | | | | |
|---|---|---|---|----------------------------------|
| 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) |
| Yes | Yes | No | Yes | |

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| Acetone (67-64-1) | | | | |
|---|---|---|---|----------------------------------|
| 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-Methyl-2-Pyrrolidone (872-50-4) | | | | |
| 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-Propanol (67-63-0) | | | | |
| 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 | |
| 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 | |
| Distillates (Petroleum), Hydrotreated Light (64742-47-8) | | | | |
| 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 | |

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| Acetone (67-64-1) | | | | |
|---|---|---|---|----------------------------------|
| 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 | No | 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 | |
| Ethylbenzene (100-41-4) | | | | |
| 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 | No | No | |
| 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 | |
| Benzene (71-43-2) | | | | |
| State or local regulations | | | | |
| U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL) U.S. - Pennsylvania - RTK (Right to Know) List New Jersey Right-to-Know | | | | |
| 2-Propanol (67-63-0) | | | | |
| State or local regulations | | | | |
| U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List | | | | |
| 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 | | | | |
| Acetone (67-64-1) | | | | |
| State or local regulations | | | | |
| U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL) Benzene 71-43-2 U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List | | | | |
| Ethylbenzene (100-41-4) | | | | |
| State or local regulations | | | | |
| U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL) | | | | |

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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

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

| | |
|-------------------------------------|---|
| 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 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) 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 |
| 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. 2 | Flammable liquids Category 2 |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Flam. Liq. 4 | Flammable liquids Category 4 |
| Repr. 1B | Reproductive toxicity Category 1B |
| 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 |
| 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 |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| H350 | May cause cancer |
| H351 | Suspected of causing cancer |
| H360 | May damage fertility or the unborn child |
| H361 | Suspected of damaging fertility or the unborn child |
| 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 |

NFPA health hazard

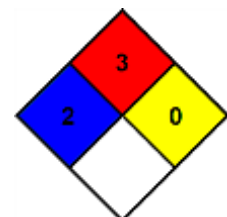
: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

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.



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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

Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.