

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : VISCOSITY TUTELA Diesel Fuel System Cleaner

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

Use of the substance/mixture : Cleaning agent
 Restrictions on use : No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Viscosity Oil Company
 600 H Joliet Road
 Willowbrook, IL 60527
 T 630-850-4000 - F 630-850-4022

Supplier

Viscosity Oil Company
 1918 Boul.Saint-Regis
 Dorval, QC H9P 1H6 - Canada

1.4. Emergency telephone number

Emergency number : (800) 424-9300
 CHEMTREC (24 HOURS)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

| | |
|--|------|
| Flammable liquids, Category 3 | H226 |
| Acute toxicity (oral), Category 4 | H302 |
| Acute toxicity (inhalation:dust,mist) Category 4 | H332 |
| Carcinogenicity, Category 2 | H351 |
| Specific target organ toxicity — Single exposure, Category 3, Narcosis | H336 |
| Aspiration hazard, Category 1 | H304 |

Full text of H statements : see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS_US) :

H226 - Flammable liquid and vapour.
 H302+H332 - Harmful if swallowed or if inhaled
 H304 - May be fatal if swallowed and enters airways.
 H336 - May cause drowsiness or dizziness.
 H351 - Suspected of causing cancer.

Precautionary statements (GHS) :

P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 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 mist, spray, vapours.
 P264 - Wash hands, forearms and face thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 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 center or doctor.
 P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.

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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 center/doctor if you feel unwell
P330 - Rinse mouth.
P331 - Do NOT induce vomiting.
P370+P378 - In case of fire: Use media other than water to extinguish.
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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS_US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % (w/w) | GHS classification |
|---|----------------------|-----------|---|
| Distillates (petroleum), hydrotreated light | (CAS-No.) 64742-47-8 | 5 - 50 | Flam. Liq. 4, H227 Asp. Tox. 1, H304 |
| 2-ethylhexyl nitrate | (CAS-No.) 27247-96-7 | 20 - 45 | Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411 |
| Solvent naphtha (petroleum), heavy arom. | (CAS-No.) 64742-94-5 | 10 - 40 | Flam. Liq. 4, H227 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Naphthalene | (CAS-No.) 91-20-3 | 0.5 - 5 | Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Solvent naphtha (petroleum), light arom. (benzene < 0.1%) | (CAS-No.) 64742-95-6 | 0 - 5 | Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| 1,2,4-trimethylbenzene | (CAS-No.) 95-63-6 | 1 - 3 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Chronic 2, H411 |
| mesitylene; 1,3,5-trimethylbenzene | (CAS-No.) 108-67-8 | 0.1 - 1.5 | Flam. Liq. 3, H226 STOT SE 3, H335 Aquatic Chronic 2, H411 |
| diethylbenzene | (CAS-No.) 25340-17-4 | 0.1 - 1.5 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 2-ethylhexan-1-ol | (CAS-No.) 104-76-7 | 0.1 - 1.5 | Flam. Liq. 4, H227 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 |
| cumene | (CAS-No.) 98-82-8 | 0 - 0.15 | Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |

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

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

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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 you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Artificial respiration and/or oxygen if necessary. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

- Symptoms/effects : Suspected of causing cancer.
- Symptoms/effects after inhalation : Harmful if inhaled. May cause drowsiness or dizziness. Nausea. Headache. Dizziness. Inhalation of vapours may cause respiratory irritation.
- Symptoms/effects after skin contact : Repeated or prolonged skin contact may cause dermatitis and defatting.
- Symptoms/effects after ingestion : Harmful if swallowed. May be fatal if swallowed and enters airways. May damage lungs if swallowed and aspirated. Risk of aspiration pneumonia. Never attempt to induce vomiting : risk of inhalation.

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

Treat symptomatically.

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 : Flammable liquid and vapour. Flammable vapours may accumulate in the container. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.
- Explosion hazard : May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
- Reactivity : No dangerous reactions known under normal conditions of use.

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 the environment. Do not allow run-off from fire fighting to enter drains or water courses.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

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. Do not breathe aerosol. Do not breathe vapour. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Ground/bond container and receiving equipment.

6.1.1. For non-emergency personnel

- Protective equipment : Refer to section 8.2.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Refer to section 8.2.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

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

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6.3. Methods and material for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- 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 vapours 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 vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe aerosol. Use only outdoors or in a well-ventilated area. Do not breathe vapours. Do not get in eyes, on skin, or on clothing. Do not pierce or burn, even after use.
- Hygiene measures : Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace.

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. Keep container tightly closed.
- Incompatible products : Strong bases. Strong acids. Strong oxidizers.
- Heat and ignition sources : Keep away from heat, sparks and flame.
- Storage area : Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Distillates (petroleum), hydrotreated light (64742-47-8) | | |
|--|---------------------------------|---|
| Not applicable | | |
| 2-ethylhexyl nitrate (27247-96-7) | | |
| ACGIH | ACGIH OEL TWA [ppm] | 1 ppm (Set by Afton Chemical Corporation) |
| Solvent naphtha (petroleum), heavy arom. (64742-94-5) | | |
| ACGIH | ACGIH STEL (mg/m ³) | 10 mg/m ³ |
| OSHA | OSHA PEL TWA [1] | 5 mg/m ³ |
| Solvent naphtha (petroleum), light arom. (benzene < 0.1%) (64742-95-6) | | |
| Not applicable | | |
| 1,2,4-trimethylbenzene (95-63-6) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 123 mg/m ³ |
| ACGIH | ACGIH OEL TWA [ppm] | 25 ppm |
| NIOSH | NIOSH REL TWA | 125 mg/m ³ |
| NIOSH | NIOSH REL TWA [ppm] | 25 ppm |
| Naphthalene (91-20-3) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 52 mg/m ³ |
| ACGIH | ACGIH OEL TWA [ppm] | 10 ppm |
| ACGIH | ACGIH STEL (mg/m ³) | 79 mg/m ³ |
| ACGIH | ACGIH OEL STEL [ppm] | 15 ppm |

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| Naphthalene (91-20-3) | | |
|--|--------------------------------|---|
| ACGIH | Remark (ACGIH) | TLV® Basis: URT irr; cararacts; hemolytic anemia. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI |
| OSHA | OSHA PEL TWA [1] | 50 mg/m ³ |
| OSHA | OSHA PEL TWA [2] | 10 ppm |
| NIOSH | NIOSH REL TWA | 50 mg/m ³ |
| NIOSH | NIOSH REL TWA [ppm] | 10 ppm |
| NIOSH | NIOSH REL STEL | 75 mg/m ³ |
| NIOSH | NIOSH REL STEL [ppm] | 15 ppm |
| mesitylene; 1,3,5-trimethylbenzene (108-67-8) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 123 mg/m ³ |
| ACGIH | ACGIH OEL TWA [ppm] | 25 ppm |
| NIOSH | NIOSH REL TWA | 125 mg/m ³ |
| NIOSH | NIOSH REL TWA [ppm] | 25 ppm |
| cumene (98-82-8) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 246 mg/m ³ |
| ACGIH | ACGIH OEL TWA [ppm] | 50 ppm |
| ACGIH | Remark (ACGIH) | TLV® Basis: Eye, skin, & URT irr; CNS impair |
| OSHA | OSHA PEL TWA [1] | 245 mg/m ³ |
| OSHA | OSHA PEL TWA [2] | 50 ppm |
| NIOSH | NIOSH REL TWA | 245 mg/m ³ |
| NIOSH | NIOSH REL TWA [ppm] | 50 ppm |
| diethylbenzene (25340-17-4) | | |
| Not applicable | | |
| 2-ethylhexan-1-ol (104-76-7) | | |
| Not applicable | | |

8.2. Exposure controls

| | |
|----------------------------------|--|
| Appropriate engineering controls | : Avoid creating mist or spray. Avoid splashing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation. |
| Personal protective equipment | : Avoid all unnecessary exposure. |
| Hand protection | : Wear suitable gloves resistant to chemical penetration. Nitrile rubber. Butyl rubber. |
| Eye protection | : Chemical goggles or safety glasses. If there is a risk of liquid being splashed : face shield. |
| Skin and body protection | : Wear suitable protective clothing. Long sleeved protective clothing. |
| Respiratory protection | : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use an approved respirator equipped with oil/mist cartridges. |
| Environmental exposure controls | : Avoid release to the environment. Prevent leakage or spillage. |
| 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 |
| Colour | : amber |
| Odour | : petroleum |
| Odour threshold | : No data available |
| pH | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |

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| | |
|--|---------------------|
| Boiling point | : No data available |
| Flash point | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Log Pow | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive limits | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions. Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Hydrocarbon. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact

Acute toxicity : Not classified

| VISCOSITY TUTELA Diesel Fuel System Cleaner | |
|--|--------------------------|
| ATE (oral) | 634.677 mg/kg bodyweight |
| ATE (dust,mist) | 1.949 mg/l/4h |
| Distillates (petroleum), hydrotreated light (64742-47-8) | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| 2-ethylhexyl nitrate (27247-96-7) | |
| ATE (oral) | 500 mg/kg bodyweight |
| ATE (dermal) | 1100 mg/kg bodyweight |
| ATE (gases) | 4500 ppmv/4h |
| ATE (vapours) | 11 mg/l/4h |
| ATE (dust,mist) | 1.5 mg/l/4h |
| Solvent naphtha (petroleum), heavy arom. (64742-94-5) | |
| LD50 oral rat | > 6000 mg/kg |

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| Solvent naphtha (petroleum), light arom. (benzene < 0.1%) (64742-95-6) | |
|--|---|
| LD50 oral rat | 3592 mg/kg |
| LD50 dermal rabbit | > 3160 mg/kg |
| ATE (oral) | 3592 mg/kg bodyweight |
| 1,2,4-trimethylbenzene (95-63-6) | |
| LD50 oral rat | 3415 mg/kg |
| LD50 dermal rat | 3440 mg/kg |
| LC50 Inhalation - Rat [ppm] | 954 ppm |
| ATE (oral) | 3415 mg/kg bodyweight |
| ATE (dermal) | 3440 mg/kg bodyweight |
| ATE (gases) | 4500 ppmv/4h |
| ATE (vapours) | 11 mg/l/4h |
| ATE (dust,mist) | 1.5 mg/l/4h |
| Naphthalene (91-20-3) | |
| LD50 oral rat | 490 mg/kg |
| LD50 dermal rabbit | 20 g/kg |
| LC50 Inhalation - Rat | > 340 mg/m ³ 1 hour |
| ATE (oral) | 490 mg/kg bodyweight |
| ATE (dermal) | 20000 mg/kg bodyweight |
| mesitylene; 1,3,5-trimethylbenzene (108-67-8) | |
| LD50 oral rat | 5000 mg/kg |
| LD50 dermal rat | > 4 ml/kg |
| LC50 Inhalation - Rat | 24000 mg/m ³ |
| ATE (oral) | 5000 mg/kg bodyweight |
| ATE (vapours) | 24 mg/l/4h |
| ATE (dust,mist) | 24 mg/l/4h |
| cumene (98-82-8) | |
| LD50 oral rat | 4000 mg/kg |
| LD50 dermal rabbit | 10600 mg/kg |
| LC50 Inhalation - Rat | 22.1 mg/l |
| LC50 Inhalation - Rat [ppm] | 4510 ppm/4h |
| ATE (oral) | 4000 mg/kg bodyweight |
| ATE (dermal) | 10600 mg/kg bodyweight |
| ATE (gases) | 4510 ppmv/4h |
| ATE (vapours) | 22.1 mg/l/4h |
| ATE (dust,mist) | 22.1 mg/l/4h |
| diethylbenzene (25340-17-4) | |
| LD50 oral rat | 2050 ml/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| LC50 Inhalation - Rat [ppm] | > 1400 ppm 7 h |
| ATE (oral) | 2050000 mg/kg bodyweight |
| 2-ethylhexan-1-ol (104-76-7) | |
| LD50 oral rat | 2047 mg/kg male |
| LD50 dermal rat | > 3000 mg/kg |
| LC50 Inhalation - Rat | 0.89 mg/L (vapour); 5.3 mg/L (vapour (1.1 mg/L) aerosol (4.3 mg/L)) |
| ATE (oral) | 2047 mg/kg bodyweight |
| ATE (gases) | 4500 ppmv/4h |
| ATE (vapours) | 11 mg/l/4h |
| ATE (dust,mist) | 1.5 mg/l/4h |

| | |
|-----------------------------------|--------------------------------|
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Suspected of causing cancer. |

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| Naphthalene (91-20-3) | |
|--|---|
| IARC group | 2B - Possibly carcinogenic to humans |
| National Toxicology Program (NTP) Status | 3 - Reasonably anticipated to be Human Carcinogen |
| cumene (98-82-8) | |
| IARC group | 2B - Possibly carcinogenic to humans |
| National Toxicology Program (NTP) Status | 3 - Reasonably anticipated to be Human Carcinogen |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : May cause drowsiness or dizziness. |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |
| Symptoms/effects after inhalation | : Harmful if inhaled. May cause drowsiness or dizziness. Nausea. Headache. Dizziness. Inhalation of vapours may cause respiratory irritation. |
| Symptoms/effects after skin contact | : Repeated or prolonged skin contact may cause dermatitis and defatting. |
| Symptoms/effects after ingestion | : Harmful if swallowed. May be fatal if swallowed and enters airways. May damage lungs if swallowed and aspirated. Risk of aspiration pneumonia. Never attempt to induce vomiting : risk of inhalation. |

SECTION 12: Ecological information

12.1. Toxicity

| 2-ethylhexyl nitrate (27247-96-7) | |
|--|--|
| LC50 fish 1 | 2 mg/l 96 h Danio rerio |
| NOEC (acute) | 1.52 mg/l 96 h Danio rerio |
| Solvent naphtha (petroleum), heavy arom. (64742-94-5) | |
| LC50 fish 1 | > 1 - 10 mg/l 96 h |
| Solvent naphtha (petroleum), light arom. (benzene < 0.1%) (64742-95-6) | |
| LC50 fish 1 | 9.22 mg/l 96 h |
| EC50 crustacea | 6.14 mg/l 48 h |
| EC50 other aquatic organisms 1 | 1 – 10 mg/l |
| ErC50 algae | 19 mg/l 96 h |
| 1,2,4-trimethylbenzene (95-63-6) | |
| LC50 fish 1 | 7.72 mg/l |
| LC50 other aquatic organisms 1 | 3.6 mg/l |
| EC50 other aquatic organisms 1 | 2.356 mg/l |
| Naphthalene (91-20-3) | |
| LC50 fish 1 | 0.91 (0.91 – 2.82) mg/l Oncornhynchus mykiss |
| EC50 crustacea | 1.96 mg/l |
| EC50 other aquatic organisms 1 | 33 mg/l |
| LC50 - Fish [2] | 1 (1 – 6.5) mg/l Pimpephales promelas |
| LOEC (acute) | 3.2 mg/l |
| NOEC (acute) | 1.8 mg/l |
| mesitylene; 1,3,5-trimethylbenzene (108-67-8) | |
| LC50 fish 1 | 12.52 mg/l |
| LC50 other aquatic organisms 1 | 6 mg/l |
| EC50 other aquatic organisms 1 | 25 mg/l |
| cumene (98-82-8) | |
| LC50 fish 1 | 4.8 mg/l |
| EC50 other aquatic organisms 1 | 2.14 mg/l |
| NOEC (acute) | 1.9 mg/l |
| diethylbenzene (25340-17-4) | |
| LC50 fish 1 | 0.673 mg/l 96 h |
| EC50 crustacea | 8.9 mg/l 48 h |
| 2-ethylhexan-1-ol (104-76-7) | |
| LC50 fish 1 | 17.1 mg/l 96 h |

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| 2-ethylhexan-1-ol (104-76-7) | |
|-------------------------------------|--------------|
| NOEC (acute) | 14 mg/l 96 h |

12.2. Persistence and degradability

| VISCOSITY TUTELA Diesel Fuel System Cleaner | |
|--|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |

| 2-ethylhexyl nitrate (27247-96-7) | |
|--|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 0 % 28 d |

| mesitylene; 1,3,5-trimethylbenzene (108-67-8) | |
|--|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
| Biodegradation | 0 % O2 consumption, 192h |

| cumene (98-82-8) | |
|-------------------------------|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |

| diethylbenzene (25340-17-4) | |
|------------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |

| 2-ethylhexan-1-ol (104-76-7) | |
|-------------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |

12.3. Bioaccumulative potential

| VISCOSITY TUTELA Diesel Fuel System Cleaner | |
|--|------------------|
| Bioaccumulative potential | Not established. |

| Distillates (petroleum), hydrotreated light (64742-47-8) | |
|---|----------------------------|
| Log Kow | 2.1 – 5 |
| Bioaccumulative potential | Bioaccumulative potential. |

| 2-ethylhexyl nitrate (27247-96-7) | |
|--|------|
| Log Pow | 5.24 |

| Naphthalene (91-20-3) | |
|------------------------------|--------------------|
| BCF fish 1 | ≥ 427 (427 – 1158) |

| mesitylene; 1,3,5-trimethylbenzene (108-67-8) | |
|--|-------------------------------|
| BCF fish 1 | 23 – 382 concentration 150ppb |
| BCF fish 2 | 42 – 328 concentration 15ppb |
| Log Pow | 3.42 |

| cumene (98-82-8) | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| diethylbenzene (25340-17-4) | |
|------------------------------------|--------------------|
| BCF fish 1 | 320 (320 – 629) |
| Log Pow | 3.72 (3.72 – 4.45) |

| 2-ethylhexan-1-ol (104-76-7) | |
|-------------------------------------|-----|
| Log Pow | 2.9 |

12.4. Mobility in soil

| VISCOSITY TUTELA Diesel Fuel System Cleaner | |
|--|------------------|
| Ecology - soil | Not established. |

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Additional information : Handle empty containers with care because residual vapours are flammable.

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

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN3295 HYDROCARBONS, LIQUID, N.O.S. (Solvent naphtha (petroleum), 1,2,4-trimethylbenzene), 3, III

UN-No.(DOT) : UN3295

Proper Shipping Name (DOT) : HYDROCARBONS, LIQUID, N.O.S.
Solvent naphtha (petroleum), 1,2,4-trimethylbenzene

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : III - Minor Danger

Hazard labels (DOT) : 3 - Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Special Provisions (49 CFR 172.102) : 144 - If transported as a residue in an underground storage tank (UST), as defined in 40 CFR 280.12, that has been cleaned and purged or rendered inert according to the American Petroleum Institute (API) Standard 1604 (IBR, see 171.7 of this subchapter), then the tank and this material are not subject to any other requirements of this subchapter. However, sediments remaining in the tank that meet the definition for a hazardous material are subject to the applicable regulations of this subchapter.
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.
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 Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L

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

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

Emergency Response Guide (ERG) Number : 128

Other information : No supplementary information available.

Transportation of Dangerous Goods

Transport document description (TDG) : UN 3295 HYDROCARBONS, LIQUID, N.O.S. (Solvent naphtha (petroleum), 1,2,4-trimethylbenzene), 3, III

UN-No. (TDG) : UN 3295

Proper Shipping Name (TDG) : HYDROCARBONS, LIQUID, N.O.S.

Primary Hazard Classes : 3 - Class 3 - Flammable Liquids

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Packing group (TDG) : III - Minor Danger

Transport by sea

Transport document description (IMDG) : UN 3295 HYDROCARBONS, LIQUID, N.O.S. (Solvent naphtha (petroleum), 1,2,4-trimethylbenzene), 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

UN-No. (IMDG) : 3295

Proper Shipping Name (IMDG) : HYDROCARBONS, LIQUID, N.O.S.

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : III - substances presenting low danger

Limited quantities (IMDG) : 5 L

Air transport

Transport document description (IATA) : UN 3295 HYDROCARBONS, LIQUID, N.O.S. (Solvent naphtha (petroleum), 1,2,4-trimethylbenzene), 3, III, ENVIRONMENTALLY HAZARDOUS

UN-No. (IATA) : 3295

Proper Shipping Name (IATA) : HYDROCARBONS, LIQUID, N.O.S.

Class (IATA) : 3 - Flammable Liquids

Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

| | |
|---|--|
| 1,2,4-trimethylbenzene (95-63-6) | |
| Subject to reporting requirements of United States SARA Section 313 | |
| SARA Section 313 - Emission Reporting | 1 % |
| Naphthalene (91-20-3) | |
| Subject to reporting requirements of United States SARA Section 313 | |
| CERCLA RQ | 100 lb |
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard Immediate (acute) health hazard |
| SARA Section 313 - Emission Reporting | 1 % |
| cumene (98-82-8) | |
| Subject to reporting requirements of United States SARA Section 313 | |
| CERCLA RQ | 5000 lb |
| SARA Section 313 - Emission Reporting | 1 % |
| 2-ethylhexan-1-ol (104-76-7) | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a final TSCA section 4 test rule. |

15.2. International regulations

CANADA

| | |
|--|--|
| Distillates (petroleum), hydrotreated light (64742-47-8) | |
| Listed on the Canadian DSL (Domestic Substances List) inventory. | |
| 2-ethylhexyl nitrate (27247-96-7) | |
| Listed on the Canadian DSL (Domestic Substances List) inventory. | |
| Solvent naphtha (petroleum), heavy arom. (64742-94-5) | |
| Listed on the Canadian DSL (Domestic Substances List) inventory. | |
| Solvent naphtha (petroleum), light arom. (benzene < 0.1%) (64742-95-6) | |
| Listed on the Canadian DSL (Domestic Substances List) inventory. | |
| 1,2,4-trimethylbenzene (95-63-6) | |
| Listed on the Canadian DSL (Domestic Substances List) inventory. | |
| Naphthalene (91-20-3) | |
| Listed on the Canadian DSL (Domestic Substances List) inventory. | |

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mesitylene; 1,3,5-trimethylbenzene (108-67-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

cumene (98-82-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

diethylbenzene (25340-17-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

2-ethylhexan-1-ol (104-76-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

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

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

2-ethylhexyl nitrate (27247-96-7)

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

Solvent naphtha (petroleum), light arom. (benzene < 0.1%) (64742-95-6)

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

Naphthalene (91-20-3)

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

mesitylene; 1,3,5-trimethylbenzene (108-67-8)

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

cumene (98-82-8)

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

diethylbenzene (25340-17-4)

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)

2-ethylhexan-1-ol (104-76-7)

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

National regulations

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

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)

2-ethylhexyl nitrate (27247-96-7)

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 NZIoC (New Zealand Inventory of Chemicals)
Listed on Taiwan National Chemical Inventory
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Solvent naphtha (petroleum), light arom. (benzene < 0.1%) (64742-95-6)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Naphthalene (91-20-3)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)
Listed on EPA Hazardous Air Pollutant (HAPS)

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Naphthalene (91-20-3)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
 Listed on NZIoC (New Zealand Inventory of Chemicals)
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
 Listed on Taiwan National Chemical Inventory
 Listed on the AICS (Australian Inventory of Chemical Substances)
 Listed on the Chinese Catalog of Hazardous Chemicals.
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
 Listed on KECL/KECI (Korean Existing Chemicals Inventory)

mesitylene; 1,3,5-trimethylbenzene (108-67-8)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
 Listed on the Chinese Catalog of Hazardous Chemicals.
 Listed on Taiwan National Chemical Inventory
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
 Listed on the AICS (Australian Inventory of Chemical Substances)
 Listed on NZIoC (New Zealand Inventory of Chemicals)
 Listed on KECL/KECI (Korean Existing Chemicals Inventory)

cumene (98-82-8)

Listed on IARC (International Agency for Research on Cancer)
 Listed as carcinogen on NTP (National Toxicology Program)
 Listed on EPA Hazardous Air Pollutant (HAPS)
 Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
 Listed on NZIoC (New Zealand Inventory of Chemicals)
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
 Listed on Taiwan National Chemical Inventory
 Listed on the AICS (Australian Inventory of Chemical Substances)
 Listed on the Chinese Catalog of Hazardous Chemicals.
 Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
 Listed on the TCSI (Taiwan Chemical Substance Inventory)
 Listed on KECL/KECI (Korean Existing Chemicals Inventory)

diethylbenzene (25340-17-4)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
 Listed on NZIoC (New Zealand Inventory of Chemicals)
 Listed on the AICS (Australian Inventory of Chemical Substances)
 Listed on Taiwan National Chemical Inventory
 Listed on KECL/KECI (Korean Existing Chemicals Inventory)
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
 Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).

2-ethylhexan-1-ol (104-76-7)

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 NZIoC (New Zealand Inventory of Chemicals)
 Listed on Taiwan National Chemical Inventory
 Listed on the AICS (Australian Inventory of Chemical Substances)
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
 Listed on KECL/KECI (Korean Existing Chemicals Inventory)

15.3. US State regulations

⚠ WARNING: This product can expose you to Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

| Component | Carcinogenicity | Developmental toxicity | Reproductive toxicity male | Reproductive toxicity female | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
|------------------------|-----------------|------------------------|----------------------------|------------------------------|--|-------------------------------------|
| Naphthalene(91-20-3) | X | | | | 5.8 µg/day | |
| cumene(98-82-8) | X | | | | | |
| ethylbenzene(100-41-4) | X | | | | 54 µg/day (inhalation); 41 µg/day (oral) | |

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| Component | Carcinogenicity | Developmental toxicity | Reproductive toxicity male | Reproductive toxicity female | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
|------------------|-----------------|------------------------|----------------------------|------------------------------|--|--|
| Benzene(71-43-2) | X | X | X | | 6.4 µg/day (oral); 13 µg/day (inhalation) | 24 µg/day (oral); 49 µg/day (inhalation) |

| Component | State or local regulations |
|---------------------------------|---|
| 1,2,4-trimethylbenzene(95-63-6) | U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; 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 |
| Naphthalene(91-20-3) | U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; 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 |
| cumene(98-82-8) | U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; 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 |
| diethylbenzene(25340-17-4) | U.S. - New Jersey - Right to Know Hazardous Substance List |

SECTION 16: Other information

Revision date : 12/04/2020

Data sources : ACGIH (American Conference of Government Industrial Hygienists). European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. NIOSH Occupational Health Guide for chemical Substances - Vol. II, September, 1978. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>.

Other information : None.

Full text of H-statements:

| | |
|------|---|
| H226 | Flammable liquid and vapour. |
| 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. |
| H351 | Suspected of causing cancer. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

Abbreviations and acronyms:

| | |
|--|---|
| | ACGIH (American Conference of Government Industrial Hygienists) |
| | ATE: Acute Toxicity Estimate |
| | CAS (Chemical Abstracts Service) number |
| | CLP: Classification, Labelling, Packaging. |
| | EC50: Environmental Concentration associated with a response by 50% of the test population. |
| | GHS: Globally Harmonized System (of Classification and Labeling of Chemicals). |
| | LD50: Lethal Dose for 50% of the test population |
| | OSHA: Occupational Safety & Health Administration |
| | TSCA: Toxic Substances Control Act |
| | STEL: Short Term Exposure Limits |

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TWA: Time Weighted Average

NFPA health hazard

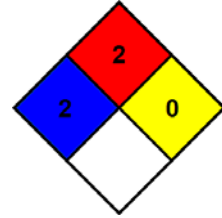
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

NFPA reactivity

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



Indication of changes:

Product identifier.

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