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| | | SDS Number: R0340955 |
| NAPA® MAC'S PREMIUM STARTING FLUID | | Version: 1.2 |
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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : NAPA® MAC'S PREMIUM
STARTING FLUID

Recommended use of the chemical and restrictions on use

| | |
|--|---|
| Details of the supplier of the safety data sheet Niteo Products, LLC P.O. Box 191629 Dallas TX 75219 United States of America | Emergency telephone number CHEMTREC DIRECT 1-800-424-9300 Product Information 1-844-696-4836 |
|--|---|

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification


Flammable aerosols : Category 1
Acute toxicity (Oral) : Category 4
Carcinogenicity : Category 2
Reproductive toxicity : Category 2
Specific target organ systemic toxicity - single exposure : Category 3 (Central nervous system)
Aspiration hazard : Category 1

GHS Label element

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : Extremely flammable aerosol.

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Harmful if swallowed.
 May be fatal if swallowed and enters airways.
 May cause drowsiness or dizziness.
 Suspected of causing cancer.
 Suspected of damaging fertility or the unborn child.

Precautionary Statements

: Prevention:

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Do not spray on an open flame or other ignition source.
 Pressurized container: Do not pierce or burn, even after use.
 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 Wash skin thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
 IF exposed or concerned: Get medical advice/ attention.
 Do NOT induce vomiting.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
 Chemical nature : Static Accumulator
 Chemical nature : Defatter

Hazardous components

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| Chemical Name | CAS-No. | Classification | Concentration (%) |
|--|------------|--|-------------------|
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | 64742-89-8 | Flam. Liq. 2; H225 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Acute 2; H401 Aquatic Chronic 2; H411 | 67.75 |
| ETHYL ETHER | 60-29-7 | Flam. Liq. 1; H224 Acute Tox. 4; H302 STOT SE 3; H336 | 29.33 |
| n-HEPTANE | 142-82-5 | Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 | 2.71 |
| CARBON DIOXIDE | 124-38-9 | Press. Gas Liquefied gas; H280 | 2.01 |
| ETHANOL | 64-17-5 | Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336 | 1.75 |
| ETHYL CHLORIDE | 75-00-3 | Flam. Gas 1; H220 Carc. 2; H351 | 0.43 |
| TOLUENE | 108-88-3 | Flam. Liq. 2; H225 | 0.18 |

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|--|--|--|--|
| | | Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Repr. 2; H361 STOT SE 3; H336 STOT RE 2; H373 Asp. Tox. 1; H304 | |
|--|--|--|--|

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
 Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.
- If inhaled : Move to fresh air.
 If unconscious place in recovery position and seek medical advice.
 Consult a physician after significant exposure.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
 If on skin, rinse well with water.
 Wash contaminated clothing before re-use.
- In case of eye contact : Flush eyes with water as a precaution.
 Remove contact lenses.
 Protect unharmed eye.
 If eye irritation persists, consult a specialist.
- If swallowed : Obtain medical attention.
 Rinse mouth with water.
 Do not give milk or alcoholic beverages.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.


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Harmful if swallowed.
 May be fatal if swallowed and enters airways.
 May cause drowsiness or dizziness.
 Suspected of causing cancer.
 Suspected of damaging fertility or the unborn child.
 Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
 stomach or intestinal upset (nausea, vomiting, diarrhea)
 irritation (nose, throat, airways)
 Cough
 loss of appetite
 confusion
 irregular heartbeat
 respiratory failure

Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Foam
 Alcohol-resistant foam
 Carbon dioxide (CO₂)
 Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
 Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
 Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Aldehydes
 carbon dioxide and carbon monoxide
 organic compounds
 Hydrocarbons
 formaldehyde-like
- Specific extinguishing methods :
- Product is compatible with standard fire-fighting agents.

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Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use a water spray to cool fully closed containers.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Remove all sources of ignition.
Use personal protective equipment.
Ensure adequate ventilation.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Other information : Comply with all applicable federal, state, and local regulations.
Suppress (knock down) gases/vapours/mists with a water spray jet.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Open drum carefully as content may be under pressure.
Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours/dust.
Do not smoke.
Container hazardous when empty.
Take precautionary measures against static discharges.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.
Container may be opened only under exhaust ventilation hood.

Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.

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Keep container tightly closed in a dry and well-ventilated place.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Observe label precautions.
 No smoking.
 Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|--|------------|-------------------------------|--|-------------|
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | 64742-89-8 | TWA | 500 ppm | OSHA_TRANS |
| | | TWA | 300 ppm | ACGIH |
| | | TWA | 2,000 mg/m3 | OSHA_TRANS |
| ETHYL ETHER | 60-29-7 | TWA | 1,370 mg/m3 | ACGIH |
| | | TWA | 400 ppm | ACGIH |
| | | STEL | 500 ppm | ACGIH |
| | | PEL | 400 ppm 1,200 mg/m3 | OSHA_TRANS |
| | | TWA | 400 ppm 1,200 mg/m3 | TN OEL |
| | | STEL | 500 ppm 1,500 mg/m3 | TN OEL |
| n-HEPTANE | 142-82-5 | REL | 85 ppm 350 mg/m3 | NIOSH/GUIDE |
| | | Ceil_Time | 440 ppm 1,800 mg/m3 | NIOSH/GUIDE |
| | | PEL | 500 ppm 2,000 mg/m3 | OSHA_TRANS |
| | | TWA | 400 ppm | ACGIH |
| | | STEL | 500 ppm | ACGIH |
| | | TWA | 5,000 ppm | ACGIH |
| CARBON DIOXIDE | 124-38-9 | STEL | 30,000 ppm | ACGIH |
| | | REL | 5,000 ppm 9,000 mg/m3 | NIOSH/GUIDE |
| | | STEL | 30,000 ppm 54,000 mg/m3 | NIOSH/GUIDE |
| | | PEL | 5,000 ppm 9,000 mg/m3 | OSHA_TRANS |
| | | REL | 1,000 ppm 1,900 mg/m3 | NIOSH/GUIDE |
| | | REL | 1,000 ppm 1,900 mg/m3 | NIOSH/GUIDE |

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| | | | | |
|--|------------|-----------|--------------------------|-------------|
| | | PEL | 1,000 ppm 1,900 mg/m3 | OSHA_TRANS |
| | | STEL | 1,000 ppm | ACGIH |
| | | TWA | 1,000 ppm 1,900 mg/m3 | Z1A |
| DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC | 64742-53-6 | PEL | 500 ppm 2,000 mg/m3 | OSHA_TRANS |
| | | REL | 5 mg/m3 Mist. | NIOSH/GUIDE |
| | | STEL | 10 mg/m3 Mist. | NIOSH/GUIDE |
| | | PEL | 5 mg/m3 Mist. | OSHA_TRANS |
| ETHYL CHLORIDE | 75-00-3 | TWA | 100 ppm | ACGIH |
| | | PEL | 1,000 ppm 2,600 mg/m3 | OSHA_TRANS |
| | | TWA | 1,000 ppm 2,600 mg/m3 | Z1A |
| TOLUENE | 108-88-3 | TWA | 20 ppm | ACGIH |
| | | REL | 100 ppm 375 mg/m3 | NIOSH/GUIDE |
| | | STEL | 150 ppm 560 mg/m3 | NIOSH/GUIDE |
| | | TWA | 200 ppm | OSHA/Z2 |
| | | Ceiling | 300 ppm | OSHA/Z2 |
| | | MAX. CONC | 500 ppm | OSHA/Z2 |


Biological occupational exposure limits

| Components | CAS-No. | Control parameters | Biological specimen | Sampling time | Permissible concentration | Basis |
|------------|------------|---------------------------------|------------------------|--|---------------------------|-------|
| TOLUENE | 108-88-3 | o-Cresol, with hydrolysis | Creatinine in urine | Sampling time: End of shift. | 0.3 mg/g | |
| Remarks: | Background | | | | | |
| | | toluene | Urine | Sampling time: End of shift. | 0.03 mg/l | |
| | | toluene | Blood | Sampling time: Prior to last shift of work week. | 0.02 mg/l | |

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

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In the case of dust or aerosol formation use respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

- Hand protection
Material : Nitrile rubber
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.
- Skin and body protection : Wear as appropriate:
impervious clothing
Safety shoes
Flame-resistant clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Wear resistant gloves (consult your safety equipment supplier).
- Hygiene measures : Wash hands before breaks and at the end of workday.
When using do not eat or drink.
When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : aerosol
- Colour : colourless
- Odour : ether-like
- Odour Threshold : No data available
- pH : No data available
- : No data available
- Boiling point/boiling range : 94.3 °F / 34.6 °C

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| | (1,013.232 hPa) |
| | Calculated Phase Transition Liquid/Gas |
| Flash point | : -49 °F / -45 °C |
| | Calculated Flash Point |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : No data available |
| Upper explosion limit | : 36.5 %(V) |
| | Calculated Explosive Limit |
| Lower explosion limit | : 1.05 %(V) |
| | Calculated Explosive Limit |
| Vapour pressure | : 717.2616 hPa (25 °C) |
| | Calculated Vapor Pressure |
| Relative vapour density | : No data available |
| Relative density | : No data available |
| Density | : 0.706 g/cm ³ (15.56 °C) |
| Solubility(ies) | |
| Water solubility | : No data available |
| Solubility in other solvents | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Thermal decomposition | : No data available |
| Viscosity | |
| Viscosity, dynamic | : No data available |
| Viscosity, kinematic | : No data available |
| Oxidizing properties | : No data available |

SECTION 10. STABILITY AND REACTIVITY

| | |
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| Reactivity | : No decomposition if stored and applied as directed. |
| Chemical stability | : Stable under recommended storage conditions. |
| Possibility of hazardous reactions | : Vapours may form explosive mixture with air. |
| Conditions to avoid | : Heat, flames and sparks. excessive heat |

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Incompatible materials : Acids
 Alkali metals
 Ammonia
 Bases
 halogens
 inorganic materials
 Oxidizing agents
 sodium
 Sulphur compounds

Hazardous decomposition products : Aldehydes
 carbon dioxide and carbon monoxide
 formaldehyde-like
 Hydrocarbons
 organic compounds

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
 Skin contact
 Eye Contact
 Ingestion

Acute toxicity

Harmful if swallowed.

Components:
SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Acute oral toxicity : LD 50 (Rat): > 8,000 mg/kg

 Acute inhalation toxicity : LC 50 (Rat): 3400 ppm
 Exposure time: 4 h
 Test atmosphere: vapour

Acute dermal toxicity : LD 50 (Rat): > 4,000 mg/kg

ETHYL ETHER:

Acute oral toxicity : LD50 (Rat): 1,200 - 1,700 mg/kg

 Acute inhalation toxicity : LC 50 (Rat): 32,000 mg/l
 Exposure time: 4 h

n-HEPTANE:

 Acute oral toxicity : LD 50 (Rat): Expected > 5,000 mg/kg
 Remarks: Information given is based on data obtained from similar substances.

 Acute inhalation toxicity : LC 50 (Rat, male and female): > 29.29 mg/l
 Exposure time: 4 h
 Test atmosphere: vapour

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Method: OECD Test Guideline 403

Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD 50 (Rabbit): Expected > 2,000 mg/kg
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.
 Remarks: Information given is based on data obtained from similar substances.

ETHANOL:

Acute oral toxicity : LD 50 (Rat): 7,060 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 117 - 125 mg/l
 Exposure time: 4 h

LC 50 (Mouse): 39 mg/l
 Exposure time: 4 h

Acute dermal toxicity : LD Lo (Rabbit): 20 g/kg

ETHYL CHLORIDE:

Acute inhalation toxicity : LC 50 (Rat): > 19000 ppm
 Exposure time: 4 h
 Test atmosphere: vapour
 Method: OECD Test Guideline 403

TOLUENE:

Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 8000 ppm
 Exposure time: 4 h

Acute dermal toxicity : LD 50 (Rabbit): 12,124 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Components:

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Result: Mildly irritating to skin

ETHYL ETHER:


Result: Irritating to skin

n-HEPTANE:

Result: Irritating to skin

CARBON DIOXIDE:

Result: Not irritating to skin

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ETHANOL:

Result: Slightly irritating to skin

ETHYL CHLORIDE:

Result: Mildly irritating to skin

TOLUENE:

Result: Irritating to skin

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

Result: Mildly irritating to eyes

ETHYL ETHER:

Result: Severely irritating to eyes

n-HEPTANE:

Result: Mildly irritating to eyes

CARBON DIOXIDE:

Result: Not irritating to eyes

ETHANOL:

Result: Irritating to eyes

ETHYL CHLORIDE:

Result: Mildly irritating to eyes

TOLUENE:

Result: Irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

n-HEPTANE:

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity


Not classified based on available information.

Components:

n-HEPTANE:

Genotoxicity in vitro

: Test Type: Chromosome aberration test in vitro
 Test species: rat hepatocytes
 Method: OECD Test Guideline 473

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Result: negative

: Test Type: Ames test
Method: OECD Test Guideline 471
Result: negative

Carcinogenicity

Suspected of causing cancer.

Components:

ETHYL CHLORIDE:

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components:

TOLUENE:

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

ETHYL ETHER:

Assessment: May cause drowsiness or dizziness.

n-HEPTANE:

Assessment: May cause drowsiness or dizziness.

ETHANOL:

Assessment: May cause drowsiness or dizziness.

TOLUENE:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Components:

TOLUENE:

Exposure routes: Inhalation

Target Organs: Neurologic: other (neuropsychological effects, auditory dysfunction and effects on colour vision)

Assessment: May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity


May be fatal if swallowed and enters airways.

Components:

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC:

May be fatal if swallowed and enters airways.

n-HEPTANE:

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May be fatal if swallowed and enters airways.

TOLUENE:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

Components:

ETHYL CHLORIDE:

Remarks: Liver

Remarks: Central nervous system

Carcinogenicity:

IARC

Group 1: Carcinogenic to humans

DISTILLATES 64742-53-6
(PETROLEUM),
HYDROTREATED LIGHT
NAPHTHENIC

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

Known to be human carcinogen

DISTILLATES 64742-53-6
(PETROLEUM),
HYDROTREATED LIGHT
NAPHTHENIC

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

n-HEPTANE:

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): 1.5 mg/l
Exposure time: 48 h
Test Type: static test

LC 50 (Mysidopsis bahia (opossum shrimp)): 0.1 mg/l
Exposure time: 96 h
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : NOELR (Water flea (Daphnia magna)): 1 mg/l
Exposure time: 21 d

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(Chronic toxicity) Test Type: static test
 Test substance: WAF
 Method: OECD Test Guideline 211
 Remarks: Information given is based on data obtained from similar substances.

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

ETHANOL:

Toxicity to fish : LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss)): 12,000 - 16,000 mg/l
 Exposure time: 96 h
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): > 10,000 mg/l
 Exposure time: 48 h
 Test Type: static test

ETHYL CHLORIDE:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (Daphnia magna)): 58 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 118 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: Directive 67/548/EEC, Annex V, C.3.

TOLUENE:

Toxicity to fish : LC50 (Oncorhynchus kisutch (coho salmon)): 5.5 mg/l
 Exposure time: 96 h
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (Ceriodaphnia dubia)): 3.78 mg/l
 Exposure time: 48 h
 Remarks: Mortality

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): > 433 mg/l
 End point: Growth inhibition
 Exposure time: 96 h
 NOEC (Scenedesmus quadricauda (Green algae)): > 400 mg/l
 End point: Growth inhibition
 Exposure time: 7 d

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Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 1.39 mg/l
 Exposure time: 40 d
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Water flea (Ceriodaphnia dubia)): 0.74 mg/l
 Exposure time: 7 d

Persistence and degradability

n-HEPTANE:

Biodegradability : Result: Readily biodegradable

ETHYL CHLORIDE:

Biodegradability : Inoculum: activated sludge
 Result: Not readily biodegradable.
 Biodegradation: 0 %
 Exposure time: 28 d
 Method: Directive 67/548/EEC Annex V, C.4.E.

TOLUENE:

Biodegradability : Result: Readily biodegradable

Bioaccumulative potential

ETHYL ETHER:

Partition coefficient: n-octanol/water : log Pow: 0.89

n-HEPTANE:

Partition coefficient: n-octanol/water : log Pow: 4.66

ETHANOL:

Partition coefficient: n-octanol/water : log Pow: -0.31

ETHYL CHLORIDE:

Partition coefficient: n-octanol/water : log Pow: 1.43

TOLUENE:

Bioaccumulation : Species: Ide, silver or golden orfe (Leuciscus idus)
 Bioconcentration factor (BCF): 94
 Exposure time: 3 d
 Concentration: 0.05 mg/l
 Method: Not reported

Partition coefficient: n-octanol/water : log Pow: 2.73

Mobility in soil

No data available

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Other adverse effects

No data available

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT / LTD. QTY. |
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|

U.S. DOT - ROAD

| | | | | | |
|----|------|----------|-----|--|------------------|
| UN | 1950 | Aerosols | 2.1 | | LIMITED QUANTITY |
|----|------|----------|-----|--|------------------|

CFR_RAIL_C

| | | | | | |
|----|------|----------|-----|--|------------------|
| UN | 1950 | Aerosols | 2.1 | | LIMITED QUANTITY |
|----|------|----------|-----|--|------------------|

U.S. DOT - INLAND WATERWAYS

| | | | | | |
|----|------|----------|-----|--|------------------|
| UN | 1950 | Aerosols | 2.1 | | LIMITED QUANTITY |
|----|------|----------|-----|--|------------------|



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TDG_ROAD_C

| | | | | |
|----|------|----------|-----|------------------|
| UN | 1950 | AEROSOLS | 2.1 | LIMITED QUANTITY |
| | | | | |

TDG_RAIL_C

| | | | | |
|----|------|----------|-----|------------------|
| UN | 1950 | AEROSOLS | 2.1 | LIMITED QUANTITY |
| | | | | |

TDG_INWT_C

| | | | | |
|----|------|----------|-----|------------------|
| UN | 1950 | AEROSOLS | 2.1 | LIMITED QUANTITY |
| | | | | |

INTERNATIONAL MARITIME DANGEROUS GOODS

| | | | | |
|----|------|----------|-----|--|
| UN | 1950 | AEROSOLS | 2.1 | MARINE POLLUTANT:(ALIPHATIC PETROLEUM NAPHTHA)LIMITED QUANTITY |
| | | | | |

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

| | | | | |
|----|------|---|-----|--|
| UN | 1950 | Aerosols, flammable (engine starting fluid) | 2.1 | |
| | | | | |

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

| | | | | |
|----|------|---|-----|--|
| UN | 1950 | Aerosols, flammable (engine starting fluid) | 2.1 | |
| | | | | |

MX_DG

| | | | | |
|----|------|----------|---|--|
| UN | 1950 | AEROSOLS | 2 | |
| | | | | |

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

| | |
|------------------|-----|
| Marine pollutant | yes |
|------------------|-----|

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

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CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|-------------|---------|--------------------|-----------------------------|
| ETHYL ETHER | 60-29-7 | 100 | 340.921101 |

SARA 311/312 Hazards : Fire Hazard
Chronic Health Hazard
Acute Health Hazard

SARA 313 Component(s) : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Pennsylvania Right To Know

| | | |
|--|------------|-----------------|
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | 64742-89-8 | 50.00 - 70.00 % |
| ETHYL ETHER | 60-29-7 | 20.00 - 30.00 % |
| n-HEPTANE | 142-82-5 | 1.00 - 5.00 % |
| CARBON DIOXIDE | 124-38-9 | 1.00 - 5.00 % |
| ETHANOL | 64-17-5 | 1.00 - 5.00 % |

New Jersey Right To Know

| | | |
|--|------------|-----------------|
| SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC | 64742-89-8 | 50.00 - 70.00 % |
| ETHYL ETHER | 60-29-7 | 20.00 - 30.00 % |
| n-HEPTANE | 142-82-5 | 1.00 - 5.00 % |
| CARBON DIOXIDE | 124-38-9 | 1.00 - 5.00 % |
| ETHANOL | 64-17-5 | 1.00 - 5.00 % |
| DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC | 64742-53-6 | 0.10 - 1.00 % |
| TOLUENE | 108-88-3 | 0.10 - 1.00 % |

California Prop 65 Proposition 65 warnings are not required for this product based on the results of a risk assessment.

The components of this product are reported in the following inventories:

- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL.
- AICS : On the inventory, or in compliance with the inventory

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- NZIOC : On the inventory, or in compliance with the inventory
- ENCS : Not in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

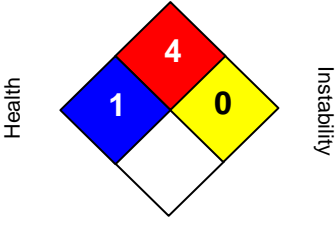
Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

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| | | | | | | | |
|--|---|---------------|----------|---------------------|----------|------------------------|----------|
| <p>NFPA:</p> <div style="text-align: center;"> <p>Flammability</p>  <p>Health Instability</p> <p>Special hazard.</p> </div> | <p>HMIS III:</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: blue; color: white;">HEALTH</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="background-color: red; color: white;">FLAMMABILITY</td> <td style="text-align: center;">4</td> </tr> <tr> <td style="background-color: yellow;">PHYSICAL HAZARD</td> <td style="text-align: center;">0</td> </tr> </table> <p>0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p> | HEALTH | 2 | FLAMMABILITY | 4 | PHYSICAL HAZARD | 0 |
| HEALTH | 2 | | | | | | |
| FLAMMABILITY | 4 | | | | | | |
| PHYSICAL HAZARD | 0 | | | | | | |

NFPA Flammable and Combustible Liquids Classification

Not applicable

Full text of H-Statements referred to under sections 2 and 3.

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| | |
|-------|---|
| H220 | Extremely flammable gas. |
| H224 | Extremely flammable liquid and vapor. |
| H225 | Highly flammable liquid and vapor. |
| H280 | Contains gas under pressure; may explode if heated. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H333 | May be harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure if inhaled. |
| H400 | Very toxic to aquatic life. |
| H401 | Toxic to aquatic life. |
| H402 | Harmful to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Sources of key data used to compile the Safety Data Sheet

Internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

Cefic, the European Chemical Industry Council.

ESIS European Chemical Substances Information System

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Niteo's Environmental Health and Safety Department (1-844-696-4836).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).


ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

| | |
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LCxx : Lethal Concentration, for xx percent of test population
 LDxx : Lethal Dose, for xx percent of test population.
 ICxx : Inhibitory Concentration for xx of a substance
 Ecxx : Effective Concentration of xx
 N.O.S.: Not Otherwise Specified
 OECD : Organization for Economic Co-operation and Development
 OEL : Occupational Exposure Limit
 P-Statement : Precautionary Statement
 PBT : Persistent , Bioaccumulative and Toxic
 PPE : Personal Protective Equipment
 STEL : Short-term exposure limit
 STOT : Specific Target Organ Toxicity
 TLV : Threshold Limit Value
 TWA : Time-weighted average
 vPvB : Very Persistent and Very Bioaccumulative
 WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act
 DOT : Department of Transportation
 FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act
 HMIRC : Hazardous Materials Information Review Commission
 HMIS : Hazardous Materials Identification System
 NFPA : National Fire Protection Association
 NIOSH : National Institute for Occupational Safety and Health
 OSHA : Occupational Safety and Health Administration
 PMRA : Health Canada Pest Management Regulatory Agency
 RTK : Right to Know
WHMIS : Workplace Hazardous Materials Information System