
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Trade name: NAPA® MAC'S BRAKE & BRAKE PARTS CLEANER

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
Acute toxicity (Inhalation): Category 4
Skin irritation: Category 2
Eye irritation: Category 2A
Skin sensitization: Category 1
Carcinogenicity: Category 2
Specific target organ systemic toxicity - single exposure: Category 3 (Central nervous system)

GHS Label element
Hazard pictograms: 

Signal Word: Warning
Hazard Statements: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer.

Precautionary Statements: Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/ attention. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration (%)</th>
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<tbody>
<tr>
<td>TETRACHLOROETHYLENE</td>
<td>127-18-4</td>
<td>Acute Tox. 4; H332</td>
<td>91.78</td>
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</table>
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. Keep patient warm and at rest. 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: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye.

If swallowed: Obtain medical attention. 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.
Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
- redness of the skin
- stomach or intestinal upset (nausea, vomiting, diarrhea)
- irritation (nose, throat, airways)
- temporary changes in mood and behavior
- confusion
- irregular heartbeat
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.
May cause drowsiness or dizziness.
Suspected of causing cancer.

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

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products: carbon dioxide and carbon monoxide
- Chlorine
- hydrogen chloride
- Phosgene

Specific extinguishing methods:

Product is compatible with standard fire-fighting agents.

Further information: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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: Use personal protective equipment. Ensure adequate ventilation. Avoid breathing dust. 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.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling: Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Container hazardous when empty. 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.

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. 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. Electrical installations / working materials must comply with the technological safety standards.
### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
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<tr>
<td>TETRACHLOROETHYLENE</td>
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<td>25 ppm</td>
<td>ACGIH</td>
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<td></td>
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<td>STEL</td>
<td>100 ppm</td>
<td>ACGIH</td>
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<td>TWA</td>
<td>100 ppm</td>
<td>OSHA/Z2</td>
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<td>Ceiling</td>
<td>200 ppm</td>
<td>OSHA/Z2</td>
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<td>MAX. CONC</td>
<td>300 ppm</td>
<td>OSHA/Z2</td>
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<td>TWA</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>170 mg/m3</td>
<td>TN OEL</td>
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<tr>
<td>CARBON DIOXIDE</td>
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<td>TWA</td>
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<td>ACGIH</td>
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<td>ACGIH</td>
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<td>REL</td>
<td>5,000 ppm</td>
<td>NIOSH/GUIDE</td>
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<td>PEL</td>
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<td>OSHA_TRA NS</td>
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<td></td>
<td></td>
<td>9,000 mg/m3</td>
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#### Biological occupational exposure limits

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<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Sampling time</th>
<th>Permissible concentration</th>
<th>Basis</th>
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<td>TETRACHLOROETHYLENE</td>
<td>127-18-4</td>
<td>tetrachloroethylene</td>
<td>Blood</td>
<td>Sampling time: Prior to shift.</td>
<td>0.5 mg/l</td>
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<td></td>
<td></td>
<td></td>
<td>End-exhaled air</td>
<td>Sampling time: Prior to shift.</td>
<td>3 ppm</td>
<td></td>
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</table>

#### 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.
- 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
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection : Wear as appropriate:
impervious clothing
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Discard gloves that show tears, pinholes, or signs of wear.
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

Appearance : aerosol
Physical state : aerosol
Odour : No data available
Odour Threshold : No data available
pH : No data available
Melting point/freezing point : No data available
Boiling point/boiling range : 250.3 °F / 121.3 °C
Calculated Phase Transition Liquid/Gas
Flash point : does not flash
Evaporation rate : No data available
Flammability (solid, gas) : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : 24.6642 hPa (25 °C)  
Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

Density : No data available

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

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : Avoid heat, open flame, and prolonged storage at elevated temperatures.  
UV light.  
Exposure to sunlight.

Incompatible materials : Alkali metals  
aluminum  
Amines  
Barium  
Strong acids  
strong bases  
Strong oxidizing agents  
Zinc

Hazardous decomposition
products  carbon dioxide and carbon monoxide
         Chlorine
         hydrogen chloride
         Phosgene

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity
Harmful if inhaled.

Components:
TETRACHLOROETHYLENE:
   - Acute oral toxicity: LD50 (Rat, male): 3,835 mg/kg
   - LD50 (Rat, female): 3,005 mg/kg

Acute inhalation toxicity: Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.

Acute dermal toxicity: LD 50 (Rabbit): > 3,228 mg/kg
   Assessment: No adverse effect has been observed in acute dermal toxicity tests.

Skin corrosion/irritation
Causes skin irritation.

Product:
Remarks: May cause skin irritation and/or dermatitis.

Components:
TETRACHLOROETHYLENE:
Result: Irritating to skin

CARBON DIOXIDE:
Result: Not irritating to skin

Serious eye damage/eye irritation
Causes serious eye irritation.

Product:
Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:
TETRACHLOROETHYLENE:
Result: Irritating to eyes

CARBON DIOXIDE:
Result: Not irritating to eyes

Respiratory or skin sensitisation
Skin sensitisation: May cause an allergic skin reaction.
Respiratory sensitisation: Not classified based on available information.
Components:
TETRACHLOROETHYLENE:
Test Type: Local lymph node assay
Exposure routes: Dermal
Species: Mouse
Assessment: May cause sensitisation by skin contact.
Method: OECD Test Guideline 429
GLP: yes

Germ cell mutagenicity
Not classified based on available information.
Components:
TETRACHLOROETHYLENE:
Genotoxicity in vitro:
Test Type: Chromosome aberration test in vitro
Test species: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: Ames test
Test species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro mammalian cell gene mutation test
Test species: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Carcinogenicity
Suspected of causing cancer.
Components:
TETRACHLOROETHYLENE:
Carcinogenicity - Assessment: Limited evidence of carcinogenicity in animal studies

Reproductive toxicity
Not classified based on available information.
STOT - single exposure
May cause drowsiness or dizziness.
Components:
TETRACHLOROETHYLENE:
Exposure routes: inhalation (vapour)
Target Organs: Central nervous system
Assessment: May cause drowsiness or dizziness.

**STOT - repeated exposure**
Not classified based on available information.

**Aspiration toxicity**
Not classified based on available information.

**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:**

**TETRACHLOROETHYLENE:**
Remarks: Central nervous system

**Carcinogenicity:**

**IARC**
Group 2A: Probably carcinogenic to humans

**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**
Reasonably anticipated to be a human carcinogen

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

**TETRACHLOROETHYLENE:**

Toxicity to fish: LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss)): 4.73 - 5.27 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates: EC 50 (Water flea (Daphnia magna)): 7 - 11 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae: EC50 (Green algae): 3.64 mg/l
End point: Growth inhibition
Exposure time: 72 h
Toxicity to fish (Chronic toxicity) : NOEC (Jordanella floridae (flagfish)): 2.34 mg/l  
Exposure time: 28 d  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.51 mg/l  
Exposure time: 28 d  
End point: Reproduction Test  
Test Type: semi-static test

Toxicity to bacteria : IC50 (Bacteria): 112 mg/l  
Exposure time: 24 h

Persistence and degradability

Components:  
TETRACHLOROETHYLENE:  
Biodegradability : Remarks: Not readily biodegradable.

Bioaccumulative potential

Components:  
TETRACHLOROETHYLENE:  
Bioaccumulation : Species: Bluegill (Lepomis macrochirus)  
Bioconcentration factor (BCF): 49  
Exposure time: 21 d  
Concentration: 0.00343 mg/l  
Method: Flow through

Partition coefficient: n-octanol/water : log Pow: 2.53 (23 °C)

Mobility in soil

Components:  
No data available

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.

Components:

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

<table>
<thead>
<tr>
<th>REGULATION</th>
<th>UN NUMBER</th>
<th>PROPER SHIPPING NAME</th>
<th>HAZARD CLASS</th>
<th>SUBSIDIARY HAZARDS</th>
<th>PACKING GROUP</th>
<th>MARINE POLLUTANT / LTD. QTY.</th>
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<tbody>
<tr>
<td>U.S. DOT - ROAD</td>
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<td>U.S. DOT - INLAND WATERWAYS</td>
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**SAFETY DATA SHEET**

**NAPA® MAC'S BRAKE & BRAKE PARTS CLEANER**

**NM4700**

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<th>UN</th>
<th>CATEGORY</th>
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**TRANSPORT CANADA - RAIL**

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**TRANSPORT CANADA - INLAND WATERWAYS**

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**INTERNATIONAL MARITIME DANGEROUS GOODS**

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<td>MARINE POLLUTANT: (TETRACHLOR OETHYLENE)</td>
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

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<th>MAX. QUANTITY</th>
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

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<tr>
<td>1950</td>
<td>Aerosols, non-flammable</td>
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**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

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</thead>
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<td>AEROSOLES</td>
<td>2</td>
</tr>
</tbody>
</table>

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID*

| Marine pollutant | yes |

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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**
CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
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<td>100</td>
<td>108.947534</td>
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SARA 311/312 Hazards:
- Acute Health Hazard
- Chronic Health Hazard

SARA 313 Component(s):
- TETRACHLOROETHYLENE 127-18-4 91.78%

Pennsylvania Right To Know:
- TETRACHLOROETHYLENE 127-18-4 90.00 - 100.00 %
- CARBON DIOXIDE 124-38-9 5.00 - 10.00 %

New Jersey Right To Know:
- TETRACHLOROETHYLENE 127-18-4 90.00 - 100.00 %
- CARBON DIOXIDE 124-38-9 5.00 - 10.00 %

California Prop 65:
WARNING! This product contains a chemical known to the State of California to cause cancer.
- TETRACHLOROETHYLENE 127-18-4

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
- NZIOC: On the inventory, or in compliance with the inventory
- ENCS: On the inventory, or 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
Revision Date: 07/31/2015

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<tr>
<th>NFPA:</th>
<th>HMIS III:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>Flammability</td>
</tr>
<tr>
<td>Physical</td>
<td></td>
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<td>Special hazard.</td>
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</tbody>
</table>

NFPA Flammable and Combustible Liquids Classification
Not applicable

Full text of H-Statements referred to under sections 2 and 3.
H280 Contains gas under pressure; may explode if heated.
H303 May be harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.

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
- 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