

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : Liqui-Thaw
Product code : 155-33405

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : De-icer

1.4. Supplier's details

American Cleaning Solutions
39-30 Review Avenue
Long Island City, NY, 11101
T (718) 392-8080

1.5. Emergency phone number

Emergency number : INFOTRAC: 800-535-5053

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

| | | |
|--|------|--|
| Acute toxicity (oral), Category 4 | H302 | Harmful if swallowed. |
| Skin corrosion/irritation, Category 1 | H314 | Causes severe skin burns and eye damage. |
| Full text of H statements : see section 16 | | |

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) : H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS US) : P260 - Do not breathe dusts or mists.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.
P301+P312 - If swallowed: Call a poison center/doctor if you feel unwell
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

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lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a poison center/doctor
P321 - Specific treatment (see supplemental first aid instruction on this label).
P330 - Rinse mouth.
P363 - Take off immediately all contaminated clothing and wash it before reuse.
P405 - Store locked up.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|------------------------|----------------------|---------|--|
| Ethylene Glycol | CAS-No.: 107-21-1 | 30 – 50 | Acute Tox. 4 (Oral), H302 |
| Calcium chloride | CAS-No.: 10043-52-4 | 10 – 20 | Eye Irrit. 2A, H319 |
| 2-propanol | CAS-No.: 67-63-0 | 1 – 5 | Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336 |
| Nonylphenol Ethoxylate | CAS-No.: 127087-87-0 | 1 – 5 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 |

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

SECTION 4 First aid measures

4.1. Description of necessary 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 : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a poison center or doctor/physician.

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4.2. Most important symptoms/effects, acute and delayed

| | |
|---|---|
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. Harmful if swallowed. |
| Symptoms/effects | : Causes severe skin burns and eye damage. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. |
| Symptoms/effects after ingestion | : Swallowing a small quantity of this material will result in serious health hazard. |

4.3. Indication of immediate medical attention and special treatment needed, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) 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. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

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

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

| | |
|----------------------|-----------------------------------|
| Emergency procedures | : Evacuate unnecessary personnel. |
|----------------------|-----------------------------------|

For emergency responders

| | |
|----------------------|--|
| Protective equipment | : Equip cleanup crew with proper protection. |
| Emergency procedures | : Ventilate area. |

| | |
|---------------------------|---|
| Environmental precautions | : Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. |
|---------------------------|---|

6.2. Methods and materials for containment and cleaning up

| | |
|-------------------------|--|
| 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. |
|-------------------------|--|

See Heading 8. Exposure controls and personal protection.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|---|
| Precautions for safe handling | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe dust/mist/spray. Avoid contact during pregnancy/while nursing. |
|-------------------------------|---|

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Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

7.2. Conditions for safe storage, including incompatibilities

Technical measures : Comply with applicable regulations.
Storage conditions : Keep only in the original container in a cool, well ventilated place away from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Keep container closed when not in use.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

| 2-propanol (67-63-0) | |
|--|---|
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | 2-Propanol |
| ACGIH OEL TWA | 200 ppm |
| ACGIH OEL STEL | 400 ppm |
| Remark (ACGIH) | Eye & URT irr; CNS impair |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Isopropyl alcohol |
| OSHA PEL TWA | 980 mg/m ³ |
| | 400 ppm |
| Ethylene Glycol (107-21-1) | |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 25 ppm (Vapor fraction) |
| ACGIH OEL STEL | 10 mg/m ³ (Inhalable fraction, Aerosol only) |
| | 50 ppm (Vapor fraction) |

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

| Hand protection: |
|---|
| Wear protective gloves/eye protection/face protection protective gloves |
| Eye protection: |
| Chemical goggles or face shield |
| Skin and body protection: |
| Wear suitable protective clothing |

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Respiratory protection:

Wear appropriate mask

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Liquid |
| Color | : clear |
| Odor | : mild |
| Odor threshold | : No data available |
| pH | : 13 |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : 212 – 220 °F |
| Flash point | : ≥ 200 °F |
| Flammability (solid, gas) | : Non flammable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : ≥ 1 |
| Relative density | : 1.124 |
| Solubility | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Explosion limits | : No data available |
| Particle characteristics | : No data available |

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : corrosive vapors.

10.2. Chemical stability

Stable under normal conditions. Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

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10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : corrosive vapors.

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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| | |
|---------------|----------------------------|
| ATE US (oral) | 1449.172 mg/kg body weight |
|---------------|----------------------------|

Calcium chloride (10043-52-4)

| | |
|-----------------------|---|
| LD50 oral rat | 2301 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 5000 mg/kg body weight (Other, 24 h, Rabbit, Male / female, Experimental value, Dermal) |
| LC50 Inhalation - Rat | > 0.16 mg/l/4h (4 h, Rat, Inconclusive, insufficient data, Inhalation) |
| ATE US (oral) | 2301 mg/kg body weight |

2-propanol (67-63-0)

| | |
|-----------------------------|---|
| LD50 oral rat | 5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | 16400 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat [ppm] | > 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s)) |
| ATE US (oral) | 5840 mg/kg body weight |
| ATE US (dermal) | 12890400 mg/kg body weight |

Ethylene Glycol (107-21-1)

| | |
|-----------------------|---|
| LD50 oral rat | 7712 mg/kg body weight (according to BASF-internal standards, Rat, Male / female, Experimental value, Aqueous solution, Oral, 7 day(s)) |
| LD50 dermal | > 3500 mg/kg body weight (Mouse, Male / female, Experimental value, Dermal) |
| LC50 Inhalation - Rat | > 2.5 mg/l (6 h, Rat, Male / female, Experimental value, Inhalation (aerosol)) |
| ATE US (oral) | 500 mg/kg body weight |

Nonylphenol Ethoxylate (127087-87-0)

| | |
|---------------|---|
| LD50 oral rat | 1890 mg/kg body weight (Rat, Male / female, Experimental value, Oral) |
| LD50 oral | 657 mg/kg body weight (Rabbit, Male / female, Experimental value, Oral) |
| ATE US (oral) | 1890 mg/kg body weight |

Skin corrosion/irritation : Causes severe skin burns.
pH: 13

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| 2-propanol (67-63-0) | |
|--------------------------------------|-------------------------------------|
| pH | No data available in the literature |
| Ethylene Glycol (107-21-1) | |
| pH | No data available in the literature |
| Nonylphenol Ethoxylate (127087-87-0) | |
| pH | 6.3 (1 %) |

Serious eye damage/irritation : Assumed to cause serious eye damage
pH: 13

| 2-propanol (67-63-0) | |
|--------------------------------------|-------------------------------------|
| pH | No data available in the literature |
| Ethylene Glycol (107-21-1) | |
| pH | No data available in the literature |
| Nonylphenol Ethoxylate (127087-87-0) | |
| pH | 6.3 (1 %) |

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified

| 2-propanol (67-63-0) | |
|------------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

| Calcium chloride (10043-52-4) | |
|-------------------------------|-------------------------------------|
| Viscosity, kinematic | Not applicable (solid) |
| 2-propanol (67-63-0) | |
| Viscosity, kinematic | No data available in the literature |
| Ethylene Glycol (107-21-1) | |
| Viscosity, kinematic | No data available in the literature |

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/effects : Causes severe skin burns and eye damage.
Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12 Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

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| Calcium chloride (10043-52-4) | |
|--------------------------------------|--|
| LC50 - Fish [1] | 4630 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Lethal) |
| ErC50 algae | > 4000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Experimental value, Growth rate) |
| 2-propanol (67-63-0) | |
| LC50 - Fish [1] | 9640 – 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal) |
| EC50 - Crustacea [1] | 10000 mg/l (48 h; Daphnia magna) |
| Ethylene Glycol (107-21-1) | |
| LC50 - Fish [1] | > 72860 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration) |
| EC50 - Crustacea [1] | 10000 mg/l (24 h; Daphnia magna) |
| Nonylphenol Ethoxylate (127087-87-0) | |
| LC50 - Fish [1] | 11.6 mg/l (48 h, Oryzias latipes, Static system, Fresh water, Experimental value) |
| EC50 - Crustacea [1] | 14 mg/l (48 h, Daphnia magna, Static renewal, Fresh water, Experimental value) |
| EC50 96h - Algae [1] | 12 mg/l (Selenastrum capricornutum, Static system, Fresh water, Experimental value, Nominal concentration) |

12.2. Persistence and degradability

| Liqui-Thaw | |
|--------------------------------------|--|
| Persistence and degradability | Not established. |
| Calcium chloride (10043-52-4) | |
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |
| 2-propanol (67-63-0) | |
| Persistence and degradability | Biodegradable in the soil, Biodegradable in the soil under anaerobic conditions, Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 1.19 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.23 g O ₂ /g substance |
| ThOD | 2.4 g O ₂ /g substance |
| Ethylene Glycol (107-21-1) | |
| Persistence and degradability | Biodegradable in the soil, Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0.47 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.24 g O ₂ /g substance |
| ThOD | 1.29 g O ₂ /g substance |
| Nonylphenol Ethoxylate (127087-87-0) | |
| Persistence and degradability | Not readily biodegradable in water, Biodegradable in water. |

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12.3. Bioaccumulative potential

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| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

Calcium chloride (10043-52-4)

| | |
|---------------------------|----------------------------------|
| Bioaccumulative potential | Bioaccumulation: not applicable. |
|---------------------------|----------------------------------|

2-propanol (67-63-0)

| | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 0.05 (Weight of evidence approach, 25 °C) |
|---|---|

| | |
|---------------------------|--|
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
|---------------------------|--|

Ethylene Glycol (107-21-1)

| | |
|---|----------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -1.36 (Experimental value) |
|---|----------------------------|

| | |
|---------------------------|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |
|---------------------------|----------------------|

Nonylphenol Ethoxylate (127087-87-0)

| | |
|----------------|--|
| BCF - Fish [1] | 7.6 – 12.4 l/kg (6 week(s), Cyprinus carpio, Static system, Fresh water, Experimental value) |
|----------------|--|

| | |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | 5.67 (Practical experience/observation, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
|---|--|

| | |
|---------------------------|--|
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). Low potential for bioaccumulation (molecular mass >=700 g/mol). |
|---------------------------|--|

12.4. Mobility in soil

Calcium chloride (10043-52-4)

| | |
|-----------------|-------------------------------------|
| Surface tension | No data available in the literature |
|-----------------|-------------------------------------|

| | |
|----------------|---|
| Ecology - soil | No (test)data on mobility of the substance available. |
|----------------|---|

2-propanol (67-63-0)

| | |
|-----------------|--|
| Surface tension | No data available (test not performed) |
|-----------------|--|

| | |
|--|--|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
|--|--|

| | |
|----------------|------------------------|
| Ecology - soil | Highly mobile in soil. |
|----------------|------------------------|

Ethylene Glycol (107-21-1)

| | |
|-----------------|-------------------|
| Surface tension | 48.4 mN/m (20 °C) |
|-----------------|-------------------|

| | |
|----------------|------------------------|
| Ecology - soil | Highly mobile in soil. |
|----------------|------------------------|

Nonylphenol Ethoxylate (127087-87-0)

| | |
|--|--|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.631 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |
|--|--|

| | |
|----------------|---|
| Ecology - soil | No (test)data on mobility of the substance available. Low potential for adsorption in soil. |
|----------------|---|

12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

Other information : Avoid release to the environment.

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SECTION 13 Disposal considerations

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local/regional/national/international regulations.

Ecological information : Avoid release to the environment.

SECTION 14 Transport information

14.1. UN number

Not regulated for transport

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not regulated
Proper Shipping Name (TDG) : Not regulated
Proper Shipping Name (IMDG) : Not regulated
Proper Shipping Name (IATA) : Not regulated

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Not regulated

TDG
Transport hazard class(es) (TDG) : Not regulated

IMDG
Transport hazard class(es) (IMDG) : Not regulated

IATA
Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group (DOT) : Not regulated
Packing group (TDG) : Not regulated
Packing group (IMDG) : Not regulated
Packing group (IATA) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT
Not regulated

TDG
Not regulated

IMDG
Not regulated

IATA
Not regulated

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SECTION 15 Regulatory information

15.1. Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

| Name | CAS-No. | Listing | Commercial status | Flags |
|------------------------|-------------|---------|-------------------|-------|
| Calcium chloride | 10043-52-4 | Present | Active | |
| 2-propanol | 67-63-0 | Present | Active | |
| Ethylene Glycol | 107-21-1 | Present | Active | |
| Nonylphenol Ethoxylate | 127087-87-0 | Present | Active | XU |

2-propanol (67-63-0)

Subject to reporting requirements of United States SARA Section 313

Ethylene Glycol (107-21-1)

Subject to reporting requirements of United States SARA Section 313

| | |
|-----------|---------|
| CERCLA RQ | 5000 lb |
|-----------|---------|

15.2. International regulations

CANADA

Nonylphenol Ethoxylate (127087-87-0)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. State regulations

No additional information available

SECTION 16 Other information

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Revision date : 10/28/2025

Issue date : 4/15/2015

Other information : None.

| Full text of hazard classes and H-statements | |
|--|---|
| H225 | Highly flammable liquid and vapor |
| H302 | Harmful if swallowed |
| H314 | Causes severe skin burns and eye damage |
| H319 | Causes serious eye irritation |
| H336 | May cause drowsiness or dizziness |

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Hazard Rating

- Health : 1 Slight Hazard - Irritation or minor reversible injury possible
 - Flammability : 0 Minimal Hazard - Materials that will not burn
 - Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal protection : B - Safety glasses, Gloves

Safety Data Sheet (SDS), USA

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.