

Safety Data Sheet**Orthrus****For Chemical Emergency Call CHEMTREC 24hr/day 7days/week****Within USA and Canada: 1-703-527-3887****Outside USA and Canada: 1-800-424-9300****(collect calls accepted)****SECTION 1: Identification****1.1. Identification**

Name : Orthrus
Product code : SI211
Formula (Override) : Proprietary
Synonyms : None

1.2. Recommended use and restrictions on use

Recommended use : Thin film deposition, Product for industrial use only
Restrictions on use : Uses other than those recommended

1.3. Supplier

Air Liquide Advanced Materials
3040 US Hwy 22 W. Ste. 110
Branchburg, NJ 08876-5357 - USA
T 908-231-9060 OR 800-865-8249 - F 908-231-9063
sds@airliquide.com

1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call CHEMTREC 24hr/day 7days/week
Within USA and Canada: 1-703-527-3887
Outside USA and Canada: 1-800-424-9300
(collect calls accepted)

SECTION 2: Hazard(s) identification**2.1. Classification of the substance or mixture****GHS US classification**

Flammable liquid, Category 3
Substances and mixtures which, in contact with water, emit flammable gases, Category 1
Acute toxicity (oral), Category 4
Acute toxicity (dermal), Category 4
Acute toxicity (inhalation:vapor), Category 4
Skin corrosion/irritation, Category 1C
Serious eye damage/eye irritation, Category 1

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements**GHS US labeling**

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US)

: H226 - Flammable liquid and vapor
H260 - In contact with water releases flammable gases, which may ignite spontaneously
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS US)

: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P231+P232 - Handle and store contents under inert gas. Protect from moisture.
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.
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+P312 - If swallowed: Call a poison center or doctor if you feel unwell.
P302+P352 - If on skin: Wash with plenty of water.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P330 - Rinse mouth.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P402+P404 - Store in a dry place. Store in a closed container.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations
P223 - Do not allow contact with water.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P310 - Immediately call a poison center or doctor.
P312 - Call a poison center or doctor if you feel unwell.
P403+P235 - Store in a well-ventilated place. Keep cool.
P260 - Do not breathe dusts or mists.
P302+P335+P334 - IF ON SKIN: Brush off loose particles from skin. Immerse in cool water.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Specific Target Organ Toxicity. Reproductive toxicity.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name	Product identifier	%	GHS US classification
Orthrus* (Main constituent)	CAS-No.: Trade Secret	100	Flam. Liq. 3, H226 Water-react. 1, H260 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Corr. 1C, H314 Eye Dam. 1, H318

*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

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: First aider: Pay attention to self-protection!. Call a physician immediately.
First-aid measures after inhalation	: Call a poison center/doctor/physician if you feel unwell. Give oxygen or artificial respiration if necessary.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. Take off contaminated clothing and wash it before reuse. Call a physician immediately. Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: Harmful if inhaled.
Symptoms/effects after skin contact	: Harmful in contact with skin. Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Harmful if swallowed. Burns.

4.3. Immediate medical attention and special treatment, if necessary

Seek medical attention immediately.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: DO NOT USE WATER OR FOAM. Small Fire: Dry chemical, soda ash, lime or sand. Large Fire: DRY sand, dry chemical, soda ash or lime or withdraw from area and let fire burn. Move containers from fire area if you can do it without risk.
Unsuitable extinguishing media	: Do not use water jet to extinguish.

5.2. Specific hazards arising from the chemical

Fire hazard	: Flammable liquid and vapor. In contact with water releases flammable gases which may ignite spontaneously. May ignite on contact with water or moist air. . May be ignited by heat, sparks or flames. May re-ignite after fire is extinguished. . Some react vigorously or explosively on contact with water. Runoff could create fire or explosion hazard.
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Hazardous decomposition products in case of fire : hydrogen. Nitrogen oxides. Silicon oxides. Carbon oxides.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Do not allow water to enter the vessels, a violent reaction may occur. Exercise caution when fighting any chemical fire. Evacuate area. Do not enter fire area without proper protective equipment, including respiratory protection. Fight fire from safe distance and protected location. Eliminate all ignition sources if safe to do so. Get the package away from the fire if this can be done without risk. Do not move the load if exposed to heat. Exposure to fire may cause containers to rupture/explode. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing. Wear fire/flamm resistant/retardant clothing. Wear chemical protective clothing that is specifically recommended by the manufacturer when there is NO RISK OF FIRE.
Special protective equipment for fire fighters	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. Structural firefighters' protective clothing provides thermal protection but only limited chemical protection.
Specific methods	: If leaking do not spray water onto container. Water surrounding area (from protected position) to contain fire.
Other information	: May react with water. Fire may produce irritating, corrosive and/or toxic gases. May produce corrosive solutions on contact with water. Runoff from fire control or dilution water may cause pollution.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: No flames, no sparks. Eliminate all sources of ignition. Do not allow contact with water. Flammable liquid and vapor.
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6.1.1. For non-emergency personnel

Protective equipment	: See section 8 of the SDS.
Emergency procedures	: Act in accordance with local emergency plan. No open flames, no sparks, and no smoking. Avoid contact with skin, eyes and clothing. Do not touch or walk on the spilled product. Evacuate and limit access. Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. Fire-resistant protective clothing. Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Consider the risk of potentially explosive atmospheres. Keep away from combustible material. Evacuate and limit access. Stop leak if safe to do so. Ventilate area. See section 5.3 of the SDS for more information.

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters. Keep away from any possible contact with water, because of violent reaction and possible flash fire.

6.3. Methods and material for containment and cleaning up

For containment	: Try to stop release if without risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Avoid release to the environment. Contain and collect spillages with non-combustible absorbent materials, e.g. vermiculite & sand. Do not touch or walk on the spilled product.
Methods for cleaning up	: Notify authorities if product enters sewers or public waters. Clean up any spills as soon as possible, using an absorbent material to collect it. Collect leaking and spilled liquid in sealable containers as far as possible. Comply with local regulations for disposal. See also Sections 8 and 13. Do not use water for cleaning. Clean up personnel must wear impermeable acid-resistant clothing. Do not get water inside containers or in contact with material.

Methods and material for containment and cleaning : Do not use water on leaking product.
up

Other information : Dispose of materials or solid residues at an authorized site. Do not use water for cleaning.

6.4. Reference to other sections

See also Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Do not handle until all safety precautions have been read and understood. May explode on heating. Keep away from any possible contact with water, because of violent reaction and possible flash fire.
Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Handle under inert gas. Protect from moisture. Keep away from any possible contact with water, because of violent reaction and possible flash fire. Avoid contact with skin, eyes and clothing. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood. Handle and open container with care. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not breathe dust/fume/gas/mist/vapors/spray.
Safe use of the product	: Do not use water on valves, flanges and other fittings. Avoid release of product into work area.
Hygiene measures	: Wear personal protective equipment. Wash contaminated clothing before reuse. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Ground/bond container and receiving equipment. Keep in a cool, well-ventilated place away from heat. Keep container closed when not in use. Comply with applicable regulations. Protect containers from physical damage; do not drag, roll, slide or drop.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Protect from moisture. Store in a dry place. Store in a closed container. Store locked up.
Incompatible materials	: Water.
Heat-ignition	: Keep away from open flames, hot surfaces and sources of ignition.
Conditions for safe storage, including any incompatibilities	: Keep away from water.
Storage area	: Meet the legal requirements. Keep Away From Heat. Store in a dry area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Orthrus
No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear proper protective equipment. Always use appropriate personal protective equipment (PPE) . 29 CFR 1910.132 Personal Protective Equipment.

Materials for protective clothing:
Wear suitable protective clothing, e.g. lab coats, coveralls or flame resistant clothing. Special fire-resistant lab coats made from Nomex are recommended for labs using these materials. Wear fire resistant or flame retardant clothing. Flame retardant antistatic protective clothing
Hand protection:
Avoid skin and eye contact. Wear gloves made from material which can not be permeated or degraded by this substance. Gloves should be non-flammable and non-absorbent (Nitrile or Butyl rubber). 29 CFR 1910.138: Hand protection
Eye protection:
29 CFR 1910.133: Eye and Face Protection. Wear non-vented goggles when working with fumes, gases or vapors. For additional protection, use a face shield in combination with another type of eye protection.
Skin and body protection:
Wear suitable protective clothing, e.g. lab coats, coveralls or flame resistant clothing. Special fire-resistant lab coats made from Nomex are recommended for labs using these materials. Wear fire resistant or flame retardant clothing. Flame retardant antistatic protective clothing
Respiratory protection:
Avoid breathing dust/fume/gas/mist/vapors/spray. Wear a self-contained breathing apparatus with a full facepiece with a minimum APF of 1000 in accordance with 29 CFR 1910.134.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Colorless
Odor	: fishy
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 188.6 – < 234.6 °C
Flash point	: 29 °C Pensky Martens Closed Cup
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: In contact with water releases flammable gases which may ignite spontaneously.
Vapor pressure	: 2.2 TORR@25C
Relative vapor density at 20°C	: No data available
Relative density	: 0.76
Solubility	: No data available
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
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not explosive.
Oxidizing properties	: Not an oxidizer.

9.2. Other information

VOC content	: 100
Bulk density	: 6.3422
Volatility	: 100

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapor.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

In contact with water releases flammable gases which may ignite spontaneously.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Water, humidity.

10.5. Incompatible materials

Oxidizing materials. Halogens.

10.6. Hazardous decomposition products

Silicon oxides. Hydrogen. Ammonia. Carbon oxides (CO, CO₂). Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
 Acute toxicity (dermal) : Harmful in contact with skin.
 Acute toxicity (inhalation) : Inhalation:vapor: Harmful if inhaled.

Orthrus	
ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
ATE US (vapors)	11 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns.
 Serious eye damage/irritation : Causes serious eye damage.
 Respiratory or skin sensitization : Not classified
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Not classified
 Reproductive toxicity : Not classified
 STOT-single exposure : Not classified
 STOT-repeated exposure : Not classified
 Aspiration hazard : Not classified
 Viscosity, kinematic : No data available
 Symptoms/effects after inhalation : Harmful if inhaled.
 Symptoms/effects after skin contact : Harmful in contact with skin. Burns.
 Symptoms/effects after eye contact : Serious damage to eyes.
 Symptoms/effects after ingestion : Harmful if swallowed. Burns.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Before neutralisation, the product may represent a danger to aquatic organisms.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Do not dispose of this product into the environment.
Sewage disposal recommendations	: Prevent entry to sewers and public waters.
Additional information	: Flammable vapors may accumulate in the container.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description (DOT)	: UN3129 Water-reactive liquid, corrosive, n.o.s. (Alkylaminosilylamine), 4.3 (8), I
UN-No. (DOT)	: UN3129
Proper Shipping Name (DOT)	: Water-reactive liquid, corrosive, n.o.s. Alkylaminosilylamine
Class (DOT)	: 4.3 - Class 4.3 - Dangerous when wet material 49 CFR 173.124
Packing group (DOT)	: I - Great Danger
Subsidiary risk (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 4.3 - Dangerous when wet 8 - Corrosive



DOT Packaging Non Bulk (49 CFR 173.xxx)	: 201
DOT Packaging Bulk (49 CFR 173.xxx)	: 243
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	: T14 - 6 mm Prohibited 178.275(g)(3). TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively. TP7 - The vapor space must be purged of air by nitrogen or other means. TP13 - Self-contained breathing apparatus must be provided when this hazardous material is transported by sea.
DOT Packaging Exceptions (49 CFR 173.xxx)	: None

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: Forbidden
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 1 L
DOT Vessel Stowage Location	: D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other	: 13 - Keep as dry as reasonably practicable, 148 - In addition: from flammable gases and flammable liquids when stowed on deck of a containership a minimum distance of two container spaces athwartship shall be maintained, when stowed on ro-ro ships a distance of 6 m athwartship shall be maintained.
Emergency Response Guide (ERG) Number	: 138
Other information	: No supplementary information available.

Transportation of Dangerous Goods

Transport document description (TDG)	: UN3129 WATER-REACTIVE LIQUID, CORROSIVE, N.O.S. (Alkylaminosilylamine), 4.3 (8), I
UN-No. (TDG)	: UN3129
Proper Shipping Name	: WATER-REACTIVE LIQUID, CORROSIVE, N.O.S.
TDG Primary Hazard Classes	: 4.3 - Class 4.3 - Substances that on contact with water emit flammable gases (water-reactive substances)
Packing group (TDG)	: I - Great Danger
TDG Subsidiary Classes	: 8
TDG Special Provisions	: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S.; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S.; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S.; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS, 38 - A person must not offer for transport, handle or transport these dangerous goods in a large means of containment if they are in direct contact with the large means of containment.
ERAP Index	: 1000
Explosive Limit and Limited Quantity Index	: 0
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: Forbidden
Passenger Carrying Ship Index	: Forbidden

IMDG

Transport document description (IMDG)	: UN 3129 WATER-REACTIVE LIQUID, CORROSIVE, N.O.S. (Alkylaminosilylamine), 4.3 (8), I
UN-No. (IMDG)	: 3129
Proper Shipping Name (IMDG)	: WATER-REACTIVE LIQUID, CORROSIVE, N.O.S.
Class (IMDG)	: 4.3 - Substances which, in contact with water, emit flammable gases
Packing group (IMDG)	: I - substances presenting high danger
Subsidiary hazard (IMDG)	: 8 - Corrosive substances
Limited quantities (IMDG)	: 0

IATA

Transport document description (IATA)	: UN 3129 Water-reactive liquid, corrosive, n.o.s. (Alkylaminosilylamine), 4.3 (8), I
UN-No. (IATA)	: 3129
Proper Shipping Name (IATA)	: Water-reactive liquid, corrosive, n.o.s.
Class (IATA)	: 4.3 - Substances which, in Contact with Water, Emit Flammable Gases
Packing group (IATA)	: I - High danger
Subsidiary hazards (IATA)	: 8 - Corrosives

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Orthrus	CAS-No.	100%
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15.2. International regulations

Government Inventory Lists

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

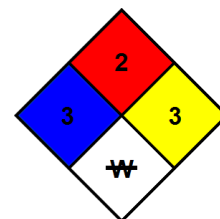
SECTION 16: Other information

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

Revision date : 06/10/2025

Full text of hazard classes and H-statements	
H226	Flammable liquid and vapor
H260	In contact with water releases flammable gases, which may ignite spontaneously
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled

NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
NFPA reactivity	: 3 - Materials that in themselves are capable of detonation or explosive decomposition or explosive reaction but that require a strong initiating source or must be heated under confinement before initiation.
NFPA specific hazard	: W - Materials that react violently or explosively with water.



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.

