

Safety Data Sheet

 according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
 Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 Supersedes: 12/11/2019
 Version: 2.1

 CLM-9773
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 Supersedes: 12/11/2019
 Version: 2.1

SECTION 1: Identification of the sub	ostance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: CHLOROACETYL CHLORIDE (1,2-13C2, 99%) CHEMICAL PURITY 97%
EC Index-No.	
EC-No.	: 607-080-00-1 (Unlabeled)
	: 201-171-6 (Unlabeled)
CAS-No.	: 286367-76-8
Product code	: CLM-9773
Formula	: CI*CH2*COCI
	stance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	: For professional use only
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety	data sheet
Cambridge Isotope Laboratories, Inc. 50 Frontage Road	
Andover, MA 01810	
USA	
USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com	
Emergency telephone number	
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)	
SECTION 2: Hazards identification	
2.1. Classification of the substance or r	nixture
Classification according to Regulation (EC)	No. 1272/2008 [CLP]
Acute Tox. 3 (Oral) H301	
Acute Tox. 3 (Dermal) H311	
Acute Tox. 3 (Inhalation:dust,mist) H331	
Skin Corr. 1A H314	
Eye Dam. 1 H318	
STOT SE 1 H370	
Aquatic Acute 1 H400	
Aquatic Chronic 1 H410	
Full text of hazard classes and H-statements : s	see section 16
Classification according to Directive 67/548/	EEC [DSD] or 1999/45/EC [DPD]
T; R24/25	
Xi; R41 T; R23	
N; R50/53	
T; R39/23	

Full text of R-phrases: see section 16

GHS-US classification

Acute Tox. 3 (Oral)H301Acute Tox. 3 (Dermal)H311Acute Tox. 3 (Inhalation)H331Skin Corr. 1AH314

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Eye Dam. 1 STOT SE 1	H318 H370
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labeling according to Regulation (EC)	lo. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS08 GHS06 GHS05 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H30+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H314 - Causes severe skin burns and eye damage H370 - Causes damage to organs (respiratory system) (in contact with skin, if inhaled, if swallowed) H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (CLP)	 P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear protective clothing, protective gloves. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
GHS-US labeling	
Hazard pictograms (GHS-US)	GH508 GH506 GH505 GH509
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage H370 - Causes damage to organs (respiratory system) (Dermal, Inhalation, oral) H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (GHS-US)	 P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear protective clothing, protective gloves. P301+P310 - If swallowed: Immediately call a poison center or doctor P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting 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 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 lenses, if present and easy to do. Continue rinsing P310 - Immediately call a poison center or doctor P311 - Call a poison center or doctor if you feel unwell
	P321 - Specific treatment (see Hazard pictograms (CLP) on this label)
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P330 - Rinse mouth.

P361 - Take off immediately all contaminated clothing.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container to Comply with applicable regulations

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
CHLOROACETYL CHLORIDE (1,2-13C2, 99%) CHEMICAL PURITY 97%	(CAS-No.) 286367-76-8 (EC-No.) 201-171-6 (Unlabeled) (EC Index-No.) 607-080-00-1 (Unlabeled)	100	T; R24/25 Xi; R41 T; R23 N; R50/53 T; R39/23
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
CHLOROACETYL CHLORIDE (1,2-13C2, 99%) CHEMICAL PURITY 97%	(CAS-No.) 286367-76-8 (EC-No.) 201-171-6 (Unlabeled) (EC Index-No.) 607-080-00-1 (Unlabeled)	100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 1, H370 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R- and H- phrases: see section 16

Name	Product identifier	%	GHS-US classification
CHLOROACETYL CHLORIDE (1,2-13C2, 99%) CHEMICAL PURITY 97% (Main constituent)	(CAS-No.) 286367-76-8	100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 1, H370 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measure	S
First-aid measures general	: Move out of dangerous area. Consult a physician and show this safety data sheet.
First-aid measures after inhalation	: If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water Take victim immediately to hospital. Consult a physician.
First-aid measures after eye contact	: Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/effects after inhalation	: Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Symptoms/effects after skin contact	: Toxic if absorbed through the skin. Causes skin burns.
Symptoms/effects after eye contact	: Causes eye burns.
Symptoms/effects after ingestion	: Toxic if swallowed. Causes burns.
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4.3.	.3. Indication of any immediate medical attention and special treatment needed			
No additional information available				
SECTION 5: Firefighting measures				
5.1.	Extinguishing media			
Suitable	extinguishing media	: Carbon dioxide (CO2) Dry pov	vder. DO NOT use water.	
5.2.	Special hazards arisi	ng from the substance or mixture		
No additi	onal information availab	le		
5.3.	Advice for firefighter	S		
Protectio	n during firefighting	: Do not enter fire area without	proper protective equipment, including respiratory protection.	
SECTI	ON 6: Accidental r	elease measures		
6.1.	Personal precautions	, protective equipment and emergency proced	ures	
General	measures		rating acidic gas which in contact with metal surfaces can	
6.1.1. Emerger	For non-emergency procedures		ment. Avoid breathing vapors, mist, or gas. Ensure adequate el to safe area.	
6.1.2. No additi	For emergency responses on al information available			
6.2.	Environmental preca	utions		
Prevent	urther leakage or spillag	ge if safe to do so. Do not let product enter drains.		
6.3.	Methods and materia	I for containment and cleaning up		
For conta	ainment	: Soak up with inert absorbent r closed containers for disposal	naterial and dispose of as hazardous waste. Keep in suitable,	
6.4.	Reference to other se	ections		
No additi	onal information availab	le		
SECTI	ON 7: Handling an	d storage		
7.1.	Precautions for safe	handling		
Additiona	al hazards when process	ed : Avoid contact with skin and ey preventive fire protection.	es. Avoid inhalation of vapour or mist. Normal measures for	
Hygiene	measures	: Handle in accordance with go breaks and at the end of work	od industrial hygiene and safety practice. Wash hands before day.	
7.2.		torage, including any incompatibilities		
Storage	conditions	: Store at room temperature aw	ay from light and moisture.	
7.3.	Specific end use(s)			
No additi	No additional information available			
SECTION 8: Exposure controls/personal protection				
8.1.	8.1. Control parameters			
CHLOF	ROACETYL CHLORIDE	(1,2-13C2, 99%) CHEMICAL PURITY 97% (286	367-76-8)	
Italy - F	ortugal - USA ACGIH	ACGIH TWA (ppm)	0.05000000 ppm Upper Respiratory Tract irritation. Danger of cutaneous absorption.	
Italy - F	ortugal - USA ACGIH	ACGIH STEL (ppm)	0.15 ppm Upper Respiratory Tract irritation. Danger of cutaneous absorption.	
USA N	OSH	NIOSH REL (TWA) (mg/m ³)	0.2 mg/m ³ Upper respiratory tract irritation.	

8.2. Exposure controls

Personal protective equipment

: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.

0.05 ppm Upper respiratory tract irritation.



USA NIOSH

: Wear safety glasses with side shields (or goggles) and a face shield.

NIOSH REL (TWA) (ppm)

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Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: When appropriate, use NIOSH/CEN approved respirator.
SECTION 9: Physical and chemical properties	

9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Liquid, clear	
Molecular mass	114.93 g/mol (Labeled)	
Color	Colorless	
Odor	No data available	
Odor threshold	No data available	
рН	2 at 20 °C (68 °F)	
Relative evaporation rate (butyl acetate=1)	No data available	
Melting point	: 22 °C (72 °F) - lit	
Freezing point	No data available	
Boiling point	: 105 - 106 °C (221 - 223 °F) - lit	
Flash point	: 100 °C (212 °F) - closed cup	
Auto-ignition temperature	No data available	
Decomposition temperature	No data available	
Flammability (solid, gas)	No data available	
Vapor pressure	: 80 hPa (60 mmHg) at 41.50 °C (106.70 °F)	
Relative vapor density at 20 °C	: 3.9 - (Air = 1.0)	
Relative density	No data available	
Solubility	Insoluble in water. Water: 0 %	
Log Pow	No data available	
Log Kow	No data available	
Viscosity, kinematic	No data available	
Viscosity, dynamic	No data available	
Explosive properties	No data available	
Oxidizing properties	No data available	
Explosion limits	No data available	

9.2. Other information

No additional information available

SECTION 10: Stability and rea	ctivity	
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Five years after receipt if stored as state	ed in "Storage" section. Re-QC after 5 years.	
10.3. Possibility of hazardous rea	ictions	
No additional information available		
10.4. Conditions to avoid		
Avoid moisture.		
10.5. Incompatible materials		
Strong oxiz\dizing agents, Strong bases	, Alcohols.	
10.6. Hazardous decomposition	products	
Formed under fire conditions: Carbon oxides, Hydrogen chloride gas, Phosgene gas.		
SECTION 11: Toxicological information		
11.1. Information on toxicologica	l effects	
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:dust,mist: Toxic if inhaled.	

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CHLOROACETYL CHLORIDE (1,2-13C2, 99%) CHEMICAL PURITY 97% (286367-76-8)
LC50 inhalation rat (ppm)	660 ppm 1 h
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (dust, mist)	0.500 mg/l/4h
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 2 at 20 °C (68 °F)
Serious eye damage/irritation	: Causes serious eye damage.
	pH: 2 at 20 °C (68 °F)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Causes damage to organs (respiratory system) (in contact with skin, if inhaled, if swallowed).
	Inhalation - Causes damage to organs
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Burning sensation. Cough. Wheezing. Laryngitis. Shortness of breath. Spasm, inflammation and edema of the larynx. Spasm, inflammation, and edema of the bronchi. Pneumonitis. Pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. 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
Symptoms/effects after inhalation	: Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Symptoms/effects after skin contact	: Toxic if absorbed through the skin. Causes skin burns.
Symptoms/effects after eye contact	: Causes eye burns.
Symptoms/effects after ingestion	: Toxic if swallowed. Causes burns.

SECTION 12: Ecological information			
12.1.	Toxicity		
Ecology	- general	: Very toxic to aquatic life with long lasting effects.	
12.2.	Persistence and degradability		
No addi	tional information available		
12.3.	Bioaccumulative potential		
No addi	tional information available		
12.4.	Mobility in soil		
No addi	tional information available		
12.5.	Results of PBT and vPvB assessment	t in the second s	
No addi	tional information available		
12.6.	Other adverse effects		
Other ac	dverse effects	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic organisms.	
SECTION 13: Disposal considerations			
13.1.	Waste treatment methods		
Regiona	l legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.	

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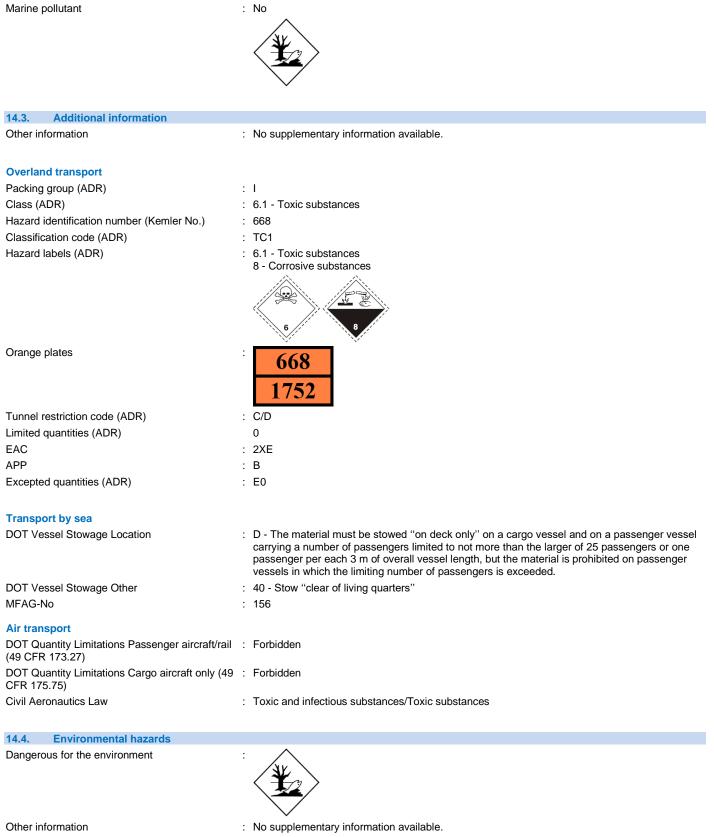
26, 2012 / Rules and Regulations		
SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IATA / A	ADN	
14.1. UN number		
UN-No.(DOT)	: 1752	
DOT NA no.	UN1752	
14.2. UN proper shipping name		
Proper Shipping Name (DOT)	Chloroacetyl chloride	
Class (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132	
Hazard labels (DOT)	: 6.1 - Poison 8 - Corrosive	
Packing group (DOT)	: I - Great Danger	
DOT Special Provisions (49 CFR 172.102)	 2 - This material is poisonous by inhalation (see 171.8 of this subchapter) in Hazard Zone B (see 173.116(a) or 173.133(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter. B3 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks and DOT 57 portable tanks are not authorized. B8 - Packaging shall be made of nickel, stainless steel, or steel with nickel, stainless steel, lead or other suitable corrosion resistant metallic lining. B9 - Bottom outlets are not authorized. B14 - Each bulk packaging, except a tank car or a multi-unit-tank car tank, must be insulated with an insulating material so that the overall thermal conductance at 15.5 C (60 F) is no more than 1.533 kilojoules per hour per square meter per degree Celsius (0.75 Btu per hour per square foot per degree Fahrenheit) temperature differential. Insulating materials must not promote corrosin to steel when wet. B32 - MC 312, MC 330, MC 331, DOT 412 cargo tanks and DOT 51 portable tanks must be made of stainless steel, except that steel other than stainless steel in accordance with the provisions of 173.24b(b) of this subchapter. Thickness of stainless steel for tank shell and heads for cargo tanks and portable tanks must be the greater of 6.35 mm (0.250 inch) or the thickness required for a tank with a design pressure at least equal to 1.3 times the vapor pressure of the lading at 46 C (115 F). In addition, MC 312 and DOT 412 cargo tank motor vehicles must. a. Be ASME Code (U) stamped for 100% radiography of all pressure-retaining welds; b. Have accident damage protection which conforms with 178.3458 of this subchapter; C. Have a MAWP or design pressure of at least 87 psig; and d. Have a bolted man way cover. B77 - Other packaging are authorized when approved by the Associate Administrator. N33 - Multimum construction materials are not authorized for any part of a packaging which is norm	
DOT Packaging Exceptions (49 CFR 173.xxx)	: None	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 227	
DOT Packaging Bulk (49 CFR 173.xxx)	: 244	

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Marine pollutant



14.5. Special precautions for user

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

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SECTION 15: Regulatory information		
15.1. US Federal regulations		
CHLOROACETYL CHLORIDE (1,2-13C2, 99%) CHEMICAL PURITY 97% (286367-76-8)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313	

15.2. International regulations

CANADA

CHLOROACETYL CHLORIDE (1,2-13C2, 99%) CHEMICAL PURITY 97% (286367-76-8)

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

CHLOROACETYL CHLORIDE (1,2-13C2, 99%) CHEMICAL PURITY 97%(286367-76-8)		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
State or local regulations	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List	

SECTION 16: Other information

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H331	Toxic if inhaled
H370	Causes damage to organs
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R23	Toxic by inhalation
R24/25	Toxic in contact with skin and if swallowed
R39/23	Toxic: danger of very serious irreversible effects through inhalation
R41	Risk of serious damage to eyes
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
/2020	EN (English LIS)

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Ν	Dangerous for the environment
Т	Toxic
Xi	Irritant
NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.
NFPA specific hazard	: W - Materials that react violently or explosively with water.
Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard
Physical	: 1 Slight Hazard

CIL Substance SDS

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