COOL-C19L

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 2/26/2024 Revision date: 2/26/2027 Version: 1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	:	Mixture
Trade name	:	COOL-C19L
REACH registration No.	:	01-2119471836-27
Product code	:	COOL-C19L
Synonyms	:	A aqueous mixture of nitrite,borate buffer,indicator and carboxylate polymer
Product group	:	Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category	:	Industrial use
Use of the substance/mixture	:	Corrosion Inhibitor

1.2.2. Uses advised against

Restrictions on use	:	Keep out of the reach of children, Product for industrial use only

1.3. Details of the supplier of the safety data sheet

ImproChem(Pty) Ltd T/A AECI Water
1 Wharhirst Road
Umbogintwini - South Africa
T +27(31) 949 8200

1.4. Emergency telephone number

Emergency number	:	0800 SPILLS or 0800 774557

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Oxidising Liquids, Category 3	H272
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Carcinogenicity, Category 1B	H350
Reproductive toxicity, Category 2	H361
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice. May intensify fire; oxidiser. May cause cancer. Suspected of damaging fertility or the unborn child. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS03 GHS07 GHS08

Signal word (CLP)	:	Danger
Hazardous ingredients	:	SODIUM NITRITE; PHENOLPHTHALEIN; SODIUM METABORATE 4 MOL
Hazard statements (CLP)	:	H272 - May intensify fire; oxidiser. H302 - Harmful if swallowed. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H350 - May cause cancer. H361 - Suspected of damaging fertility or the unborn child.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220 - Keep away from clothing and other combustible materials.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P308+P313 - IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
SODIUM NITRITE	(CAS-No.) 7632-00-0 (EC-No.) 231-555-9 (EC Index-No.) 007-010-00-4 (REACH-no) 01-2119471836-27	10 – 25	Ox. Sol. 3, H272 Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
SODIUM METABORATE 4 MOL	(CAS-No.) 10555-76-7 (EC-No.) 231-891-6	5 – 15	Eye Irrit. 2, H319 Repr. 2, H361d
PHENOLPHTHALEIN substance listed as REACH Candidate	(CAS-No.) 77-09-8 (EC-No.) 201-004-7 (EC Index-No.) 604-076-00-1	0.1 – 0.5	Carc. 1B, H350 Muta. 2, H341 Repr. 2, H361f

Specific concentration limits:

Name	Product identifier	Specific concentration limits
PHENOLPHTHALEIN	(CAS-No.) 77-09-8 (EC-No.) 201-004-7 (EC Index-No.) 604-076-00-1	(1 ≤ C ≤ 100) Carc. 1B, H350

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Treat symptomatically. IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Seek medical attention if ill effect develops.

First-aid measures after skin contact : If skin irritation occurs: Get medical advice/attention. Wash immediately with lots of water (15 minutes)/shower. Remove contaminated clothing and shoes. Contaminated clothing and shoes should be discarded or washed and decontaiminated before reuse.

First-aid measures after eye contact : Get immediate medical attention. Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Get medical advice/attention. Call a poison center or a doctor if you feel unwell. Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes serious eye irritation. toxic if swallowed.

Symptoms/effects after inhalation : Irritation of the respiratory tract.

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Eye irritation.

Symptoms/effects after ingestion : Harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : May intensify fire; oxidiser.

Explosion hazard : No direct explosion hazard.

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Nitrogen oxides.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate area. Eliminate all ignition sources if safe to do so.

Firefighting instructions : Evacuate area. Eliminate all ignition sources if safe to do so. Cool laterally with water containers exposed to flames, even after the fire is extinguished. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Eliminate every possible source of ignition. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene.

Measures in case of dust release : In case of dust production: consider evacuation.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Contain and/or absorb spill with inert material (sand), then place in suitable container.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not handle until all safety precautions have been read and understood. Wear recommended personal protective equipment. Avoid contact with skin, eyes and clothing.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation, especially in confined areas. Facilities: shower, eye shower.

Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up.

Incompatible products : Some amines when contact nitrous acid, nitrites or high nitrous oxide containing atmospheres can produce N-nitrosamines, many of which cause cancer in laboratory animals . Incompatible with some strong acids.

Incompatible materials : Organic materials. Oxidising agents. Protect from freezing. Reducing agent. combustible materials.

Heat and ignition sources : Keep away from ignition sources.

Storage area : Keep container in a well-ventilated place. Keep only in the original container. Keep out of direct sunlight. Store in a cool area.

Packaging materials : Keep only in the original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

COOL-C19L	
Lithuania - Occupational Exposure Limits	
Local name	Natrio nitritas
NRV (OEL C)	0.1 mg/m³

SODIUM NITRITE (7632-00-0)	
Lithuania - Occupational Exposure Limits	
Local name	Natrio nitritas
NRV (OEL C)	0.1 mg/m³

DNEL : 2 mg/m³

COOL-C19L		
Lithuania	Local name	Natrio nitritas
Lithuania	NRV (OEL C)	0.1 mg/m³
Lithuania	Remark (LT)	Ū

SODIUM NITRITE (7632-00-0)		
Lithuania	Local name	Natrio nitritas
Lithuania	NRV (OEL C)	0.1 mg/m³
Lithuania	Remark (LT)	Ū

DNEL : 2 mg/m³

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Personal protective equipment : Protective goggles. Gloves, shoulder length. Protective clothing. Safety Boots. Insufficient ventilation: wear respiratory protection.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Protective goggles

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. [In case of inadequate ventilation] wear respiratory protection.

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Clear to slightly hazy. Dark. Red.

Odour : odourless.

Odour threshold : No data available

pH : No data available

pH solution : 8 (9.7 – 10.6) % (@ 20 C)

Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	100 °C
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability	:	Not applicable
Vapour pressure	:	No data available
Relative vapour density at 20°C	:	No data available
Relative density	:	No data available
Density	:	1.1 – 1.4 g/cm³ (25 C)
Solubility	:	Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	5 cP
Explosive properties	:	No data available
Oxidising properties	:	May intensify fire; oxidiser.
Explosive limits	:	No data available

9.2. Other information

Other properties : Hygroscopic.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. May intensify fire; oxidiser.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Some amines when contact nitrous acid, nitrites or high nitrous oxide containing atmospheres can produce N-nitrosamines, many of which cause cancer in laboratory animals . Incompatible with some strong acids.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Acids. cyanides. amines. Powdered metals. Ammonia. Activated carbon. Combustible materials.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

Additional information : Methaemoglobin formation
Small amounts of sodium nitrite ingested repeatedly causes drop in blood pressure, rapid pulse, headaches and visual disturbances. It may also react with organic mines to form carcinogenic nitrosamines.

COOL-C19L	
LD50 oral rat	> 2000 ml/kg (Based on a similar product)

SODIUM NITRITE (7632-00-0)	
LD50 oral rat	157.9 mg/kg
LD50 oral	180 mg/kg bodyweight

SODIUM METABORATE 4 MOL (10555-76-7)	
LD50 oral rat	2330 mg/kg

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity	:	Not classified Laboratory experiments have resulted in mutagenic effects
Carcinogenicity	:	Forms with nitrites carcinogenic nitrosamines
Reproductive toxicity	:	Pregnant women are particularily susceptible to mathaemoglobinaemia that can be caused by sodium nitrite
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified
Potential adverse human health effects and symptoms	:	Overexposure to this material may result in methemoglobinemia.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

COOL-C19L	
LC50 - Fish [1]	228 mg/l (Rainbow trout)
EC50 - Crustacea [1]	2680 mg/l

SODIUM NITRITE (7632-00-0)	
LC50 - Fish [1]	0.94 – 1.92 mg/l (Flow through test Rainbow trout)
EC50 - Crustacea [1]	12.5 mg/l (Daphnia magna 48 hours)
EC50 72h - Algae [1]	100 mg/l (NOEC Desmodesmus subspicatus OECD Test Guideline 201)

PHENOLPHTHALEIN (77-09-8)	
EC50 - Crustacea [1]	> 100 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit - Algae [1]	8.9 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value)

SODIUM METABORATE 4 MOL (10555-76-7)	
LC50 - Fish [1]	> 100 mg/l Lepomis macrochirus (Bluegill sunfish)

12.2. Persistence and degradability

COOL-C19L	
Persistence and degradability	Not readily biodegradable in water.

PHENOLPHTHALEIN (77-09-8)	
Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the substance available. Photodegradation in the air.

12.3. Bioaccumulative potential

SODIUM NITRITE (7632-00-0)	
Partition coefficient n-octanol/water (Log Pow)	-3.7

PHENOLPHTHALEIN (77-09-8)	
Partition coefficient n-octanol/water (Log Pow)	0.9
Partition coefficient n-octanol/water (Log Kow)	Not applicable
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

WATER (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
PHENOLPHTHALEIN (77-09-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods	:	Dispose of in accordance with relevant local regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	:	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	:	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	:	2627
UN-No. (IMDG)	:	2627
UN-No. (IATA)	:	2627

14.2. UN proper shipping name

Proper Shipping Name (ADR)	:	NITRITES, INORGANIC, N.O.S.
Proper Shipping Name (IMDG)	:	NITRITES, INORGANIC, N.O.S.
Proper Shipping Name (IATA)	:	Nitrites, inorganic, n.o.s.
Transport document description (ADR)	:	UN 2627 NITRITES, INORGANIC, N.O.S. ((Sodium Nitrite , Phenolphthalein)), 5.1, II, (E)
Transport document description (IMDG)	:	UN 2627 NITRITES, INORGANIC, N.O.S. ((Sodium Nitrite , Phenolphthalein)), 5.1, II
Transport document description (IATA)	:	UN 2627 Nitrites, inorganic, n.o.s. ((Sodium Nitrite , Phenolphthalein)), 5.1, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	:	5.1
Danger labels (ADR)	:	5.1

:

IMDG

Transport hazard class(es) (IMDG)	:	5.1
Danger labels (IMDG)	:	5.1

:

IATA

Transport hazard class(es) (IATA)	:	5.1
Danger labels (IATA)	:	5.1

:

14.4. Packing group

Packing group (ADR)	:	II
Packing group (IMDG)	:	II
Packing group (IATA)	:	II

14.5. Environmental hazards

Dangerous for the environment	:	No
Marine pollutant	:	No
Other information	:	No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	:	O2
Special provisions (ADR)	:	103, 274
Limited quantities (ADR)	:	1kg
Excepted quantities (ADR)	:	E2
Packing instructions (ADR)	:	P002, IBC08
Special packing provisions (ADR)	:	B4
Mixed packing provisions (ADR)	:	MP10
Portable tank and bulk container instructions (ADR)	:	T3
Portable tank and bulk container special provisions (ADR)	:	TP33
Tank code (ADR)	:	SGAN
Tank special provisions (ADR)	:	TU3
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	2
Special provisions for carriage - Packages (ADR)	:	V11
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV24
Hazard identification number (Kemler No.)	:	50
Orange plates	:	
Tunnel restriction code (ADR)	:	E
EAC code	:	1Y

- Transport by sea

Special provisions (IMDG)	:	274, 900
Limited quantities (IMDG)	:	1 kg
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P002
IBC packing instructions (IMDG)	:	IBC08
IBC special provisions (IMDG)	:	B21, B4
Tank instructions (IMDG)	:	T3
Tank special provisions (IMDG)	:	TP33
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-Q
Stowage category (IMDG)	:	A
Segregation (IMDG)	:	SGG12, SG38, SG49, SG62
Properties and observations (IMDG)	:	Solids. Solid mixtures with combustible material are readily ignited and may burn fiercely. Solid mixtures with ammonium compounds or cyanides may explode. If heated, may decompose, giving off toxic nitrous fumes. Harmful if swallowed. Transport of AMMONIUM NITRITES and mixtures of an inorganic nitrite with an ammonium salt is prohibited.

- Air transport

PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y544
PCA limited quantity max net quantity (IATA)	:	2.5kg
PCA packing instructions (IATA)	:	558
PCA max net quantity (IATA)	:	5kg
CAO packing instructions (IATA)	:	562
CAO max net quantity (IATA)	:	25kg
Special provisions (IATA)	:	A33
ERG code (IATA)	:	5L

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL: Phenolphthalein (EC 201-004-7, CAS 77-09-8)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

15.1.2. National regulations

Germany

Regulatory reference	:	WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV)	:	Is not subject to the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	:	PHENOLPHTHALEIN is listed
SZW-lijst van mutagene stoffen	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	:	PHENOLPHTHALEIN is listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	:	None of the components are listed

Denmark

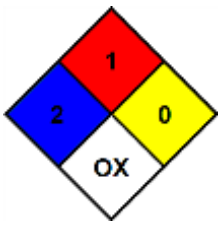
Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

NFPA health hazard	:	2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	:	1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	:	0 - Material that in themselves are normally stable, even under fire conditions.
NFPA specific hazard	:	OX - Materials that posses oxidizing properties.



Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods

LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. 1B	Carcinogenicity, Category 1B
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H412	Harmful to aquatic life with long lasting effects.
Muta. 2	Germ cell mutagenicity, Category 2
Ox. Liq. 3	Oxidising Liquids, Category 3
Ox. Sol. 3	Oxidising Solids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2

SDS ImproChem Test

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