

#### Issue Date 07-Jan-2015

Revision Date 14-Feb-2023

Version 2

SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product Code(s)	2408549	
Product Name	Sodium Thiosulfate Standard Solution, Stabilized, 0.00246 N	
Molecular weight	No data available	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
Recommended Use	Laboratory Reagent. Titrant Solution.	
Uses advised against	Consumer use	
1.3. Details of the supplier of the safety data sheet		
Sumplier		

### **Supplier**

HACH UK Laser House Ground Floor, Suite B Waterfront Quay, Salford Quays GB - Manchester, M50 3XW Tel. +44 (0) 161 872 1487 info-uk@hach.com

HACH Ireland Unit 34 GB Business Park Little Island IRL-Co. Cork T45 H681 Tel. +353 (0)146 02 522 info-ie@hach.com

## 1.4. Emergency telephone number

UK: Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service IE: National Poisons Information Centre (NPIC) 01 809 2566 (24/7)

## Section 2: HAZARDS IDENTIFICATION

## 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

## 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### 2.3. Other hazards

No information available.

#### PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT) This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

#### Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

## Section 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

General advice	Take off contaminated clothing and shoes immediately. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. If symptoms persist, call a doctor.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a doctor.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a doctor.
Ingestion	Rinse mouth.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
4.2. Most important symptoms and effects, both acute and delayed	
Symptoms	No information available.

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

Note to doctors

Treat symptomatically.

## Section 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Product itself does not burn.	
Unsuitable extinguishing media	No information available.	
5.2. Special hazards arising from the substance or mixture		
Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating and toxic gases and vapours.	
5.3. Advice for firefighters		
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	
Additional information	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.	

## Section 6: ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information.	
For emergency responders	Use personal protection recommended in Section 8.	
6.2. Environmental precautions		
Environmental precautions	Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.	
6.3. Methods and material for containment and cleaning up		
Methods for containment	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).	
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	
6.4. Reference to other sections		
Reference to other sections	See section 8 for more information. See section 13 for more information.	

# Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapours/spray.

General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wash hands before breaks and after work.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.
7.3. Specific end use(s)	
Specific use(s) Risk Management Methods (RMM)	Analytical reagent. The information required is contained in this Safety Data Sheet.
Section 8: E	EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1. Control parameters	
Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies
Derived No Effect Level (DNEL)	No information available.
Predicted No Effect Concentration (PNEC)	No information available.
Additional information	No information available.
8.2. Exposure controls	
Engineering controls	Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Personal protective equipment Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374-1:2016 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III acco.
Skin and body protection	Avoid contact with eyes, skin and clothing.
Respiratory protection	Ensure adequate ventilation.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wash hands before breaks and after work.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Physical state Liquid

Colour colourless

Odour sweet

Odour threshold No information available

Property	Values	Remarks • Method
Molecular weight	No data available	
рН	9.9	@ 20 °C
Melting point / freezing point	-5 °C / 23 °F	
Initial boiling point and boiling range	99 °C / 210.2 °F	
Evaporation rate	0.05 (water = 1)	
Vapour pressure	21.677 mm Hg $/$ 2.89 kPa $$ at $$ 25 °C $/$ 77 °I	=
Relative vapor density	0.62	
Specific Gravity	1.02	
Partition coefficient	Not applicable	
Soil Organic Carbon-Water Partition	Not applicable	
Autoignition temperature	No data available	
Decomposition temperature	No information available	
Dynamic viscosity	No information available	
Kinematic viscosity Relative density	No information available 1.02 g/mL	@ 20 °C

## Solubility(ies)

## Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

## Solubility in other solvents

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

0.15 mm/yr / 0.01 in/yr 0.08 mm/yr / 0 in/yr

## **Metal Corrosivity**

Steel Corrosion Rate		
Aluminum Corrosion Rate		

## **Explosive properties**

Upper explosion limit	No information available
Lower explosion limit	No information available

## Flammable properties

Flash point Method	> 100 °C / 212 °F OC (open cup)
Flammability	
Upper flammability limit: Lower flammability limit	No data available No data available
Oxidising properties	No data available.
Bulk density	Not applicable
9.2. Other information	

No information available.

# Section 10: STABILITY AND REACTIVITY

10.1. Reactivity		
Reactivity	No information available.	
10.2. Chemical stability		
Stability	Stable under normal conditions.	
10.3. Possibility of hazardous reactions		
Possibility of hazardous reactions	None under normal processing.	
10.4. Conditions to avoid Conditions to avoid 10.5. Incompatible materials Incompatible materials 10.6. Hazardous decomposition pro	Extremes of temperature and direct sunlight. None known based on information supplied.	
Hazardous Decomposition Products None known based on information supplied.		

# Section 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met

Mixture No data available.

Substance Test data reported below.

## Oral Exposure Route:

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Ke	y literature references and
---------------	----------	----------	----------	-----------------------	----	-----------------------------

	type	dose	time		sources for data
1,2-Propanediol	Rat	20000 mg/kg	None reported	None reported	RTECS
	LD50				
Disodium carbonate	Rat	4090 mg/kg	None reported	None reported	IUCLID
	LD50		-	-	
Tetrasodium EDTA,	Rat	2700 mg/kg	None reported	None reported	IUCLID
dihydrate	LD50				

#### Dermal Exposure Route:

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
1,2-Propanediol	Rabbit LD₅₀	20800 mg/kg	None reported	None reported	IUCLID
Disodium carbonate	Mouse LD <sub>50</sub>	2210 mg/kg	None reported	None reported	No information available

#### Inhalation (Dust/Mist) Exposure Route:

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Disodium carbonate	Rat LC₅₀	1.15 mg/L	4 hours	None reported	IUCLID

## Acute Toxicity Estimate (ATE)

#### Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity.

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Mixture No data available.

Substance

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium sulfate	Draize Test	Rabbit	500 mg	4 hours	Not corrosive or irritating to skin	ECHA
Sodium thiosulfate	OECD Test 404: Acute Dermal Corrosion/Irritation	Rabbit	500 mg	4 hours	Not corrosive or irritating to skin	ECHA
Disodium carbonate	Draize Test	Rabbit	500 mg	24 hours	Mild skin irritant	ECHA HSDB

## Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Mixture No data available.

Substance

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium sulfate	Draize Test	Rabbit	90 mg	24 hours	Not corrosive or	ECHA

Sodium thiosulfate	OECD Test 405: Acute Eye Corrosion/Irritation	Rabbit	75 mg	None reported	irritating to eyes Not corrosive or irritating to eyes	ECHA
Disodium carbonate	Draize Test	Rabbit	100 mg	24 hours	Eye irritant	HSDB

#### Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Mixture No data available.

Substance Test data reported below.

#### Skin Sensitization Exposure Route:

Chemical name	Test method	Species	Results	Key literature references and sources for data
Sodium sulfate	OECD Test No. 406: Skin Sensitisation	Guinea pig	No sensitisation responses were observed.	HSDB

#### STOT - single exposure

Based on available data, the classification criteria are not met.

Mixture	No data available.

Substance No data available.

#### STOT - repeated exposure

Based on available data, the classification criteria are not met.

Mixture No data available.

Substance Test data reported below.

## Inhalation (Vapor) Exposure Route:

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
1,2-Propanediol	Rat	2.180 mg/L	90 days	Behavioral	RTECS
	TCLO	_	-	Food intake	
				Biochemical	
				Enzyme inhibition, induction, or	
				change in blood or tissue levels	
				(dehydrogenases)	
				Endocrine	
				Changes in spleen weight	

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Mixture invitro **Data** No data available.

Substance invitro **Data** Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
1,2-Propanediol	Cytogenetic analysis	Hamster fibroblast	32000 mg/L	None reported	Positive test result for	RTECS

	mutagenicity	

Mixture invivo Data No data available.

Substance invivo **Data** No data available.

#### **Carcinogenicity**

Based on available data, the classification criteria are not met.

Mixture	No data available.

Substance No data available.

#### **Reproductive toxicity**

Based on available data, the classification criteria are not met.

Mixture	No data available.
---------	--------------------

Substance Test data reported below.

#### Oral Exposure Route:

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium sulfate	Mouse TD⊾	14000 mg/kg	4 days	Effects on Newborn Other neonatal measures or effects	RTECS

#### Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.2 Information on other hazards

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

## 11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

# 11.2.2. Other information

Other adverse effects No information available.

## Section 12: ECOLOGICAL INFORMATION

<u>12.1. Toxicity</u>				
Ecotoxicity	Based on available data	a, the classificatio	n criteria are not r	net.
Unknown aquatic toxicity	Contains 0 % of compo	Contains 0 % of components with unknown hazards to the aquatic environment.		
<u>Mixture</u>				
Acute aquatic toxicity:	No data available.			
Aquatic Chronic Toxicity:	No data available.			
Substance				
Acute aquatic toxicity:	Test data reported belo	w.		
Fish:				
Chemical name Exposure	Species	Endpoint type	Reported dose	Key literature references and

	time				sources for data
1,2-Propanediol	96 hours	Pimephales promelas	LC <sub>50</sub>	51400 mg/L	IUCLID
Sodium sulfate	96 hours	None reported	LC50	56 mg/L	IUCLID
Sodium thiosulfate	96 hours	Gambusia affinis	LC50	24000 mg/L	IUCLID
Disodium carbonate	96 hours	Lepomis macrochirus	LC50	300 mg/L	IUCLID

Crustacea:

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
1,2-Propanediol	48 Hours	Daphnia magna	LC50	34400 mg/L	IUCLID
Sodium sulfate	48 Hours	Daphnia magna	EC50	3150 mg/L	IUCLID
Disodium carbonate	48 Hours	Daphnia magna	EC <sub>50</sub>	265 mg/L	IUCLID

Algae:

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
1,2-Propanediol	96 hours	Selenastrum capricornutum	EC <sub>50</sub>	19000 mg/L	IUCLID

**Aquatic Chronic Toxicity:** 

No data available.

### 12.2. Persistence and degradability

Mixture	No data available.
12.3. Bioaccumulative potential	
Mixture:	No data available.
Partition coefficient	Not applicable
12.4. Mobility in soil	
Soil Organic Carbon-Water Partition	Not applicable

Soil Organic Carbon-Water Partition Coefficient

#### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

## 12.6. Endocrine disrupting properties

Endocrine Disruptor Information: This product does not contain any known or suspected endocrine disruptors

#### 12.7. Other adverse effects

No information available.

Ozone: Not applicable

Ozone depletion potential (ODP): No information available

## Section 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

#### Advice on Disposal

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
Waste disposal number of waste fro	m residues/unused products	
160506	WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste.	
Waste disposal number of used proc	duct	
160506	WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste.	
Contaminated packaging	Dispose of contents/containers in accordance with local regulations.	
Other Information	Do not reuse empty containers.	

## Section 14: TRANSPORT INFORMATION

IMDG
------

IMDG	
<ul><li>14.1 UN number or ID number</li><li>14.2 Proper shipping name</li><li>14.3 Transport hazard class(es)</li></ul>	Not regulated Not regulated Not regulated
14.4 Packing Group	Not regulated
14.5 Marine pollutant	Not applicable See section 6-8 for more information
14.6 Special precautions for user 14.7. Transport in bulk according to	
Annex II of MARPOL and the IBC	
Code	
ADR 14.1 UN number or ID number 14.2 Proper shipping name 14.3 Transport hazard class(es) 14.4 Packing Group 14.5 Environmental hazards 14.6 Special precautions for user	Not regulated Not regulated Not regulated Not regulated Not applicable See section 6-8 for more information
IATA 14.1 UN number or ID number 14.2 Proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user	Not regulated Not regulated Not regulated Not regulated Not regulated Not applicable See section 6-8 for more information

## Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

# Section 15: REGULATORY INFORMATION

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

#### National regulations

**European Union** 

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU) • Non-controlled

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

Germany

Water hazard class (WGK)

slightly hazardous to water (WGK 1)

France

Occupational Illnesses (R-463-3, France)

International Inventories	
EINECS/ELINCS	Complies
TSCA	Complies
DSL/NDSL	Complies
ENCS	Complies
IECSC	Complies
KECL - Existing substances	Complies
PICCS	Complies
AICS	Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

**Chemical Safety Report** 

Chemical safety assessments for substances in this mixture were not carried out.

Section 16: OTHER INFORMATION		
Issue Date	07-Jan-2015	
Revision Date	14-Feb-2023	
Revision Note	New SDS, SDS sections updated, 3, 9, 11, 12.	
Key or legend to abbreviations and acronyms used in the safety data sheet		
Legend		
**	Hazard Designation	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies	
	de navigation intérieure	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
CAS	Chemical Abstracts Service Number	
Ceiling	Maximum limit value	
CLP	Classification, Labelling and Packaging of substances and mixtures [Regulation (EC) No. 1272/2008]	
DNEL	Derived No Effect Level (DNEL)	
EC	European Community	
ECHA	ECHA (The European Chemicals Agency)	
EC50	Effective Concentration to 50% of a test population	
EEC	European Economic Community	
EN	European Standard	
IMDG	International Maritime Dangerous Goods (IMDG)	
ΙΑΤΑ	International Air Transport Association (IATA)	
IATA-DGR	International Air Transport Association - Dangerous Goods Regulations	
ICAO	International Civil Aviation Organization	
ICAO-TI	International Civil Aviation Organization - Technical Instructions	
IUCLID	IUCLID (The International Uniform Chemical Information Database)	
GHS	Globally Harmonized System of Classification and Labelling of Chemicals	
LOAEL	Lowest observed adverse effect level	
LOAEC	Lowest observed adverse effect concentration	
LC50	Lethal Concentration to 50% of a test population	
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)	
LOLI	LOLI (List of Lists - An International Chemical Regulatory Database)	
MAK	Maximale Arbeitsplatz-Konzentration, a German expression corresponding to threshold limit	
	value, which relates to safe daily exposure levels to chemical substances	
NOAEL	NOAEL (No observed adverse effect level)	
NOAEC	No observed adverse effect concentration	
OSHA	OSHA (Occupational Safety and Health Administration of the US Department of Labour)	
PEC	Predicted Effect Concentration	
PNEC	Predicted No Effect Concentration (PNEC)	
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals [Regulation (EC) No.	
	1907/2006])	
RID	Règlement international concernant le transport des marchandises dangereuses par chemir	
	de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)	
RTECS	RTECS (Registry of Toxic Effects of Chemical Substances)	
TWA	TWA (time-weighted average)	
SKN*	Skin designation	
SKN+	Skin sensitisation	
STEL	STEL (Short Term Exposure Limit)	
STOT	Specific Target Organ Toxicity	
STOT RE	Specific target organ toxicity — repeated exposure	
STOT SE	Specific target organ toxicity — single exposure	

**Issue Date** 07-Jan-2015

SVHC	Substances of Very High Concern	
TLV	Threshold Limit Value	
TRGS	Technical rules for hazardous substances, Germany	
TSCA	Toxic Substances Control Act	
UN	United Nations	
vPvB	very persistent and very bioaccumulative	
VOC	Volatile organic compounds	
AwSV	Administrative regulation of water polluting substances, Germany	

Key literature references and sources for data See Section 11: TOXICOLOGICAL INFORMATION See Section 12: ECOLOGICAL INFORMATION

## **Classification procedure**

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration toxicity	Calculation method
Ozone	Calculation method

**Training Advice** 

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Restrictions on use

For Laboratory Use Only.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

End of Safety Data Sheet