

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

SODIUM THIOCYANATE, 50%

Version	Revision Date:	GB / EN	Date of last issue: 18.03.2021
3.1	16.01.2023		Date of first issue: 23.01.2015

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

1.1 Product identifier

Trade name : SODIUM THIOCYANATE, 50%

Other means of identification : Thiocyanic acid, sodium salt solution

UFI : U551-80CH-T00M-AYVT

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

Use of the Substance/Mixture : Use in synthesis and as intermediate., Use in spraying formulations., Building and construction work, Laboratory activities

1.3 Details of the supplier of the safety data sheet

Company : Nouryon
Functional Chemicals AB
PO BOX 47067
SE 40258 Goteborg
Sweden

Telephone : +4630385000

Telefax : +46303770551

E-mail address of person responsible for the SDS : QTS@nouryon.com

1.4 Emergency telephone number

Emergency telephone number : 24 hours emergency response number: +31 57 06 79211, Kemiakuten-SE: 020 99 60 00(>,<)-: Nouryon Emergency Response Centre: +31 570 679211
Poison Centre: 0845 46 47 (England/Wales) / 08454 24 24 24 (Scotland)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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Acute toxicity, Category 4	H302: Harmful if swallowed.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H302 Harmful if swallowed. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH032 Contact with acids liberates very toxic gas.
Precautionary statements	:	Prevention: P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear eye protection/ face protection. Response: P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
Thiocyanic acid, sodium salt

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2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Thiocyanic acid, sodium salt	540-72-7 208-754-4 615-030-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 30 - < 50

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Immediate medical attention is required.
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
- If inhaled : If breathed in, move person into fresh air.
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Rinse immediately with plenty of water.
- In case of eye contact : Rinse with plenty of water.
Get medical attention immediately. Continue to rinse during transport.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Never give anything by mouth to an unconscious person.
Obtain medical attention.

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4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.
- Risks : Harmful if swallowed.
Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : 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.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
Heating may cause decomposition with release of toxic fumes.
- Hazardous combustion products : Fire will produce smoke containing hazardous combustion products (see section 10).

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
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 : Use personal protective equipment.
Wear respiratory protection.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

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Only qualified personnel equipped with suitable protective equipment may intervene.
Prevent unauthorised persons entering the zone.

6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.
Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13.
For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.

Advice on common storage : Do not store near acids.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

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Specific use(s) : Refer to attached exposure scenario Annex.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Carbon disulphide	75-15-0	TWA	5 ppm 15 mg/m ³	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		TWA	5 ppm 15 mg/m ³	2009/161/EU
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			

8.2 Exposure controls

Engineering measures

Effective exhaust ventilation system
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Hand protection
Material : For prolonged or repeated contact use protective gloves.

Skin and body protection : Protective suit

Respiratory protection : In the case of vapour or aerosol formation use a respirator with an approved filter.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : odourless

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Odour Threshold	:	No data available
pH	:	6 - 10
Melting point	:	Not applicable
Boiling point/boiling range	:	No data available
Flash point	:	does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	similar to water
Relative vapour density	:	similar to water
Relative density	:	1.26 - 1.34
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	completely miscible
Solubility in other solvents	:	Description: Soluble in:, Acetone, Methanol, Ethanol
Partition coefficient: n-octanol/water	:	log Pow: -2.52 Method: Calculation method
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	> 100 °C
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available

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Explosive properties : Not explosive

Oxidizing properties : Not classified as oxidising.

9.2 Other information

Flammability (liquids) : Will not burn

Not classified as a flammability hazard

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Contact with acids liberates very toxic gas.
Decomposition products may be flammable.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Incompatible with strong acids and oxidizing agents.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

Hazardous decomposition products : Carbon disulphide
Sodium oxide
nitrogen oxides (NO_x)
Carbonyl sulfide
Sulphur oxides

Thermal decomposition : > 100 °C

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Ingestion

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Acute toxicity

Harmful if swallowed.

Product:

- | | | |
|---------------------------|---|---|
| Acute oral toxicity | : | Acute toxicity estimate: 1,105 mg/kg
Method: Calculation method |
| Acute inhalation toxicity | : | Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method |
| Acute dermal toxicity | : | Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method |

Components:

Thiocyanic acid, sodium salt:

- | | | |
|---------------------------|---|---|
| Acute oral toxicity | : | LD50 (Coturnix japonica (Japanese quail), male and female):
541 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Remarks: Read-across from supporting substance (structural analogue or surrogate). |
| Acute inhalation toxicity | : | Remarks: No data available |
| Acute dermal toxicity | : | LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Read-across (Analogy) |

Skin corrosion/irritation

Not classified based on available information.

Components:

Thiocyanic acid, sodium salt:

- | | | |
|--------|---|--------------------|
| Result | : | No skin irritation |
|--------|---|--------------------|

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Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Thiocyanic acid, sodium salt:

Species	:	Rabbit
Result	:	Risk of serious damage to eyes.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Thiocyanic acid, sodium salt:

Species	:	Mouse
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 429
GLP	:	yes

Germ cell mutagenicity

Not classified based on available information.

Components:

Thiocyanic acid, sodium salt:

Genotoxicity in vitro	:	Test Type: In vitro gene mutation study in mammalian cells Test system: mouse lymphoma cells Method: OECD Test Guideline 476 Result: negative GLP: yes
		Test Type: Ames test Method: OECD Test Guideline 471 Result: negative GLP: yes Remarks: Read-across from supporting substance (structural analogue or surrogate).
		Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Method: OECD Test Guideline 473

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Result: negative
GLP: yes

Genotoxicity in vivo : Remarks: Not classified due to data which are conclusive although insufficient for classification.

Carcinogenicity

Not classified based on available information.

Components:

Thiocyanic acid, sodium salt:

Remarks : study scientifically unjustified

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

Components:

Thiocyanic acid, sodium salt:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

STOT - repeated exposure

Not classified based on available information.

Components:

Thiocyanic acid, sodium salt:

Assessment : Not classified due to data which are conclusive although insufficient for classification.

Repeated dose toxicity

Components:

Thiocyanic acid, sodium salt:

Species : Rat
NOAEL : 21.3 mg/kg
Application Route : Oral
Remarks : Read-across (Analogy)

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Aspiration toxicity

Not classified based on available information.

Components:

Thiocyanic acid, sodium salt:

Not classified due to data which are conclusive although insufficient for classification.

Further information

Product:

Remarks : No further data available.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Thiocyanic acid, sodium salt:

- | | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 69 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
Remarks: Read-across from supporting substance (structural analogue or surrogate). |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 3.79 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes
Remarks: Read-across from supporting substance (structural analogue or surrogate). |
| Toxicity to algae/aquatic plants | : | EC10 (Pseudokirchneriella subcapitata (green algae)): 113.43 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
Remarks: Read-across from supporting substance (structural analogue or surrogate). |
| | | ErC50 (Pseudokirchneriella subcapitata (green algae)): > 249.5 mg/l
Exposure time: 72 h
Test Type: Growth inhibition |

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	Method: OECD Test Guideline 201
	Remarks: Read-across from supporting substance (structural analogue or surrogate).
Toxicity to microorganisms	: NOEC : 2.13 mg/l Exposure time: 28 d Test Type: static test Method: closed serum bottle Remarks: Read-across from supporting substance (structural analogue or surrogate).
	NOEC : 30 mg/l Exposure time: 12 h Test Type: static test Remarks: Read-across from supporting substance (structural analogue or surrogate).
Toxicity to fish (Chronic toxicity)	: NOEC: 1.53 mg/l Exposure time: 124 d Species: Pimephales promelas (fathead minnow) Remarks: Read-across from supporting substance (structural analogue or surrogate).
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 1.33 mg/l End point: reproduction rate Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 GLP: yes Remarks: Read-across from supporting substance (structural analogue or surrogate).

12.2 Persistence and degradability

Product:

Biodegradability	: Result: Readily biodegradable.
Biochemical Oxygen Demand (BOD)	: Remarks: No data available

Components:

Thiocyanic acid, sodium salt:

Biodegradability	: Result: Readily biodegradable. Method: Closed Bottle test
Biochemical Oxygen	: Remarks: No data available

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Demand (BOD)

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Components:

Thiocyanic acid, sodium salt:

Bioaccumulation : Remarks: Not expected considering the low log Pow value.

Partition coefficient: n-octanol/water : log Pow: -2.52
Method: Calculation method

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Components:

Thiocyanic acid, sodium salt:

Assessment : This substance is not considered to be a PBT (Persistent, Bioaccumulation, Toxic). This substance is not considered to be vPvB (very Persistent nor very Bioaccumulating)

12.6 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of contents/container in accordance with local

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regulation.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR : Not regulated as a dangerous good
 RID : Not regulated as a dangerous good
 IMDG : Not regulated as a dangerous good
 IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good
 RID : Not regulated as a dangerous good
 IMDG : Not regulated as a dangerous good
 IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good
 RID : Not regulated as a dangerous good
 IMDG : Not regulated as a dangerous good
 IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good
 RID : Not regulated as a dangerous good
 IMDG : Not regulated as a dangerous good
 IATA (Cargo) : Not regulated as a dangerous good
 IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the following entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable
Control of Major Accident Hazards Regulations 2015 (COMAH)	:	Not applicable

The components of this product are reported in the following inventories:

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory

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KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IEGSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

15.2 Chemical safety assessment

Thiocyanic acid, sodium salt : A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Full text of H-Statements

H302	:	Harmful if swallowed.
H312	:	Harmful in contact with skin.
H318	:	Causes serious eye damage.
H332	:	Harmful if inhaled.
H412	:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
2009/161/EU	:	Europe. COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
2009/161/EU / TWA	:	Limit Value - eight hours
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and

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Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Acute Tox. 4	H302
Eye Dam. 1	H318
Aquatic Chronic 3	H412

Classification procedure:

Calculation method
Calculation method
Calculation method

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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