

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product form: Substance
Substance name: SODIUM DICHLOROISOCYANURATE DIHYDRATE
EC Index-No.: 613-030-00-X
EC-No.: 220-767-7
CAS-No.: 51580-86-0
REACH registration No: 01-2119489371-33-XXXX
Synonyms: DICHLOROISOCYANURIC ACID, SODIUM SALT OF; TROCLOSENE SODIUM

Relevant identified uses:

Use of the substance/mixture: Cleaning/washing agents and additives.
Disinfectant.

Uses advised against: No additional information available.

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

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

Acute toxicity (oral), Category 4 H302
Serious eye damage/eye irritation, Category 2 H319
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation H335
Hazardous to the aquatic environment – Acute Hazard, Category 1 H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1 H410

Full text of H- and EUH-statements: See section 16.

Adverse physicochemical, human health and environmental effects:

Harmful if swallowed.
May cause respiratory irritation.
Causes serious eye irritation.
Very toxic to aquatic life with long lasting effects.

[cont...]

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Label elements:

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

Hazard pictograms (CLP):



GHS07



GHS09

Signal word (CLP): Warning.

Contains: Troclosene sodium, dihydrate.

Hazard statements (CLP):
H302 - Harmful if swallowed.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP): P261 - Avoid breathing dust, fume.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear eye protection, protective clothing, protective gloves.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements: EUH031 - Contact with acids liberates toxic gas.

Other hazards: Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Name: SODIUM DICHLOROISOCYANURATE DIHYDRATE
CAS-No.: 51580-86-0
EC-No.: 220-767-7
EC Index-No.: 613-030-00-X

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Troclosene sodium, dihydrate	CAS-No.: 51580-86-0 EC-No.: 220-767-7 EC Index-No.: 613-030-01-7	$\geq 50 - < 80$	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Irrit. 2, H319. STOT SE 3, H335. Aquatic Acute 1, H400. Aquatic Chronic 1, H410. EUH031

Full text of H- and EUH-statements: See section 16.

[cont...]

4. FIRST AID MEASURES (SYMPTOMS)

Description of first aid measures:

First-aid measures general: Call a poison centre or a doctor if you feel unwell.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.
Call a poison centre or a doctor if you feel unwell.

First-aid measures after skin contact: Wash skin with plenty of water.
If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact: 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: Rinse mouth. Call a poison centre or a doctor if you feel unwell.
Do not induce vomiting.
If the person is fully conscious, make him/her drink water.
Never give an unconscious person anything to drink.

Most important symptoms and effects, both acute and delayed:

Symptoms/effects after inhalation: May cause respiratory irritation.

Symptoms/effects after skin contact: May cause irritation to skin.

Symptoms/effects after eye contact: Eye irritation.

Symptoms/effects after ingestion: Harmful if swallowed.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Water spray.

Unsuitable extinguishing media: Carbon dioxide (CO₂). Dry chemical powder.

Special hazards arising from the substance or mixture:

Fire hazard: Not flammable.
When heated to decomposition, emits dangerous fumes.

Explosion hazard: Product is not explosive.

Reactivity in case of fire: If the product is involved in a fire, it can release toxic chlorine gases.

Hazardous decomposition products in case of fire: Toxic fumes may be released.

Advice for firefighters:

Precautionary measures fire: Evacuate area. Keep away from combustible materials.

Firefighting instructions: Exercise caution when fighting any chemical fire.

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

Other information: In case of fire, corrosive and harmful gases come free.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

General measures: Avoid dust formation. Do not handle until all safety precautions have been read and understood.

For non-emergency personnel:

Protective equipment: Wear recommended personal protective equipment.

Emergency procedures: Ventilate spillage area. Avoid breathing dust, fume. Avoid contact with skin and eyes.

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".

Emergency procedures: Evacuate unnecessary personnel.

Environmental precautions: Avoid release to the environment.

Methods and material for containment and cleaning up:

For containment: Collect spillage.

Methods for cleaning up: Mechanically recover the product.

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

Reference to other sections: For further information refer to section 13.

For further information refer to section 8: "Exposure controls/personal protection".

7. HANDLING AND STORAGE

Precautions for safe handling:

Additional hazards when processed: Reacts violently with organic material.

Precautions for safe handling: Use only outdoors or in a well-ventilated area.

Avoid breathing dust, fume.

Avoid contact with skin and eyes.

Wear personal protective equipment.

Hygiene measures: Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities:

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

Keep in a cool, well-ventilated place away from heat.

Storage conditions: Store locked up.

Store in a well-ventilated place.

Keep container tightly closed.

Keep cool.

Incompatible products: Strong acids.

Incompatible materials: Direct sunlight. Combustible materials. Heat sources.

Specific end use(s): No additional information available.

[cont...]

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

National occupational exposure and biological limit values: No additional information available.

Recommended monitoring procedures: No additional information available.

Air contaminants formed: No additional information available.

DNEL and PNEC: No additional information available.

Control banding: No additional information available.

Exposure controls:

Appropriate engineering controls: Ensure good ventilation of the workstation.

Personal protection equipment:

Personal protective equipment symbol(s):



Eye and face protection:

Eye protection: Safety glasses.

Type	Field of application	Characteristics	Standard
Safety goggles	Dust	Clear	EN 166

Skin protection:

Skin and body protection: Wear suitable protective clothing.

Type	Standard
Chemically resistant protective gloves	EN 374

Hand protection: Protective gloves.

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Neoprene rubber (HNBR), Butyl rubber, Nitrile rubber (NBR)	3 (> 60 minutes)			EN ISO 374

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

Device	Filter type	Condition	Standard
	ABEK	Dust protection	

Thermal hazards: No additional information available.

Environmental exposure controls: Avoid release to the environment.

Other information: Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state:	Solid.
Appearance:	Powder. Granules. Tablet.
Colour:	White.
Odour:	Chlorine-like.
Odour threshold:	No data available.
pH:	5.5 – 7
Relative evaporation rate (butyl acetate=1):	No data available.
Melting point:	No data available.
Freezing point:	Not applicable.
Boiling point:	No data available.
Flash point:	Not applicable.
Auto-ignition temperature:	Not applicable.
Decomposition temperature:	240 – 250 °C
Flammability (solid, gas):	Non-flammable.
Vapour pressure:	No data available.
Relative vapour density at 20°C:	No data available.
Relative density:	1.8
Solubility:	Soluble. Water: 25 g/100ml.
Partition coefficient n-octanol/water (Log Pow):	No data available.
Viscosity, kinematic:	Not applicable.
Viscosity, dynamic:	No data available.
Explosive properties:	Product is not explosive.
Oxidising properties:	Does not meet the criteria for classification as oxidising.
Explosive limits:	Not applicable.
Other information:	No additional information available.

10. STABILITY AND REACTIVITY

Reactivity:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No dangerous reactions known under normal conditions of use.
Conditions to avoid:	None under recommended storage and handling conditions (see section 7).
Incompatible materials:	Combustible materials. Acids.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Thermal decomposition generates:	Hydrogen chloride. Chlorine. Carbon monoxide.

[cont...]

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity (oral):	Harmful if swallowed.
Acute toxicity (dermal):	Not classified.
Acute toxicity (inhalation):	Not classified.

SODIUM DICHLOROISOCYANURATE DIHYDRATE (51580-86-0):

LD50 oral - Rat:	1436 mg/kg
LD50 dermal - Rabbit:	> 2000 mg/kg
LC50 Inhalation – Rat:	> 50 mg/m ³

Skin corrosion/irritation:	Not classified. pH: 5.5 – 7
Serious eye damage/irritation:	Causes serious eye irritation. pH: 5.5 – 7
Respiratory or skin sensitisation:	Not classified.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified.
STOT-single exposure:	May cause respiratory irritation.

Troclosene sodium, dihydrate (51580-86-0):

STOT-single exposure:	May cause respiratory irritation.
STOT-repeated exposure:	Not classified.
Aspiration hazard:	Not classified.

SODIUM DICHLOROISOCYANURATE DIHYDRATE (51580-86-0):

Viscosity, kinematic:	Not applicable.
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12. ECOLOGICAL INFORMATION

Toxicity:

Ecology - general:	Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute):	Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic):	Very toxic to aquatic life with long lasting effects. Not rapidly degradable.

SODIUM DICHLOROISOCYANURATE DIHYDRATE (51580-86-0):

LC50 - Fish [1]:	0.22 mg/l
LC50 - Fish [2]:	0.28 mg/l
EC50 - Crustacea [1]:	0.2 mg/l

Persistence and degradability:

SODIUM DICHLOROISOCYANURATE DIHYDRATE (51580-86-0):

Persistence and degradability:	Not established.
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Bioaccumulative potential:

SODIUM DICHLOROISOCYANURATE DIHYDRATE (51580-86-0):

Bioaccumulative potential: Not established.

Mobility in soil: No additional information available.

Results of PBT and vPvB assessment: No additional information available.

Other adverse effects: No additional information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Regional legislation (waste): Disposal must be done according to official regulations.

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations: Arrange for collection by specialised disposal company.

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

HP Code: HP12 - "Release of an acute toxic gas:" waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid.

14. TRANSPORT INFORMATION

ADR:

UN number: UN3077.

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(SODIUM DICHLOROISOCYANURATE DIHYDRATE)

Transport document description: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(SODIUM DICHLOROISOCYANURATE DIHYDRATE), 9, III

Transport hazard class(es):



Packing group: III

Environmental hazards:

Dangerous for the environment: Yes.

[cont...]

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IMDG:

UN number: UN3077.

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(SODIUM DICHLOROISOCYANURATE DIHYDRATE)

Transport document description: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(SODIUM DICHLOROISOCYANURATE DIHYDRATE), 9, III, MARINE POLLUTANT

Transport hazard class(es):



Packing group: III

Environmental hazards:

Dangerous for the environment: Yes.

Marine pollutant: Yes.

IATA:

UN number: UN3077.

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(SODIUM DICHLOROISOCYANURATE DIHYDRATE)

Transport document description: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(SODIUM DICHLOROISOCYANURATE DIHYDRATE), 9, III

Transport hazard class(es):



Packing group: III

Environmental hazards:

Dangerous for the environment: Yes.

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ADN:

UN number: UN3077.

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(SODIUM DICHLOROISOCYANURATE DIHYDRATE)

Transport document description: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(SODIUM DICHLOROISOCYANURATE DIHYDRATE), 9, III

Transport hazard class(es):



Packing group: III

Environmental hazards:

Dangerous for the environment: Yes.

RID:

UN number: UN3077.

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(SODIUM DICHLOROISOCYANURATE DIHYDRATE)

Transport document description: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(SODIUM DICHLOROISOCYANURATE DIHYDRATE), 9, III

Transport hazard class(es):



Packing group: III

Environmental hazards:

Dangerous for the environment: Yes.

Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

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

EU-Regulations:

REACH Annex XVII (Restriction List): No REACH Annex XVII restrictions.

REACH Annex XIV (Authorisation List): SODIUM DICHLOROISOCYANURATE DIHYDRATE is not on the REACH Annex XIV List.

[cont...]

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REACH Candidate List (SVHC): SODIUM DICHLOROISOCYANURATE DIHYDRATE is not on the REACH Candidate List.

PIC Regulation (Prior Informed Consent): SODIUM DICHLOROISOCYANURATE DIHYDRATE is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants): SODIUM DICHLOROISOCYANURATE DIHYDRATE is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

Ozone Regulation (1005/2009): SODIUM DICHLOROISOCYANURATE DIHYDRATE is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148): Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004): Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors).

National regulations: No additional information available.

Chemical safety assessment: A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

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.

[cont...]

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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. 4 (Oral):	Acute toxicity (oral), Category 4
Aquatic Acute 1:	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1:	Hazardous to the aquatic environment – Chronic Hazard, Category 1
EUH031:	Contact with acids liberates toxic gas.
Eye Irrit. 2:	Serious eye damage/eye irritation, Category 2
H302:	Harmful if swallowed.
H319:	Causes serious eye irritation.
H335:	May cause respiratory irritation.
H400:	Very toxic to aquatic life.
H410:	Very toxic to aquatic life with long lasting effects.
STOT SE 3:	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation.

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.