

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/03/2021

Reviewed on 12/03/2021

1 Identification

- **Product identifier**
- **Trade name:**
- **Article number:** 6900
- **CAS Number:**
51580-86-0
- **EC number:**
220-767-7
- **Index number:**
613-030-01-7
- **Application of the substance / the mixture**
The product has many industrial, professional and consumer applications.
- **Uses advised against**
Any use involving aerosol formation or vapour or dust release in excess of the assigned workplace exposure limits where workers are exposed without suitable respiratory protective equipment (RPE).
Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).
Processes involving extreme heat use advised against.
Processes involving the use of incompatible substances - refer to section 10.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

- **Information department:** Product safety department.
- **Emergency telephone number:**

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
 Eye Irrit. 2A H319 Causes serious eye irritation.
 STOT SE 3 H335 May cause respiratory irritation.

- **Label elements**
- **GHS label elements**
The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms** GHS07
- **Signal word** Warning
- **Hazard statements**
Harmful if swallowed.
Causes serious eye irritation.
May cause respiratory irritation.
- **Precautionary statements**
Avoid breathing dust.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Call a poison center/doctor if you feel unwell.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/03/2021

Reviewed on 12/03/2021

(Contd. of page 1)

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 0
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 2
Fire = 0
Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
51580-86-0 troclosen sodium, dihydrate
- **Identification number(s)**
- **EC number:** 220-767-7
- **Index number:** 613-030-01-7

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
DO NOT DELAY!
Check for and remove any contact lenses.
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
DO NOT DELAY!
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.
Immediately call a doctor.
If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
If vomiting occurs spontaneously, keep airway clear. Drink more water when vomiting stops. Seek medical attention immediately
- **Information for doctor:** Treat symptomatically and supportively.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

US

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/03/2021

Reviewed on 12/03/2021

(Contd. of page 2)

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
 - Alcohol resistant foam
 - Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:**
 - Do not use ABC extinguishers containing nitrogen, due to risk of violent chemical reaction.
- **Special hazards arising from the substance or mixture**
 - During heating or in case of fire poisonous gases are produced.
 - Non-combustible solid.
 - Freely soluble in water.
 - Unlike the water-free compound troclosen sodium dihydrate is not classified as oxidizing. However, it enhances combustion of other substances.
 - Ambient fire may liberate hazardous vapours or decomposition products: Nitrous gases (nitric oxides); Hydrogen chloride.
- **Advice for firefighters**
- **Protective equipment:**
 - Wear fully protective suit.
 - Wear self-contained respiratory protective device.
 - Do not inhale explosion gases or combustion gases.
- **Additional information**
 - In case of ambient fire:
 - Cool surrounding containers with water spray.
 - If possible, take container out of dangerous zone.
 - Contain vapours with water spray.
 - Do not allow runoff to get into the sewage system.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 - Wear protective equipment. Keep unprotected persons away.
 - Ensure adequate ventilation
 - Avoid formation of dust.
 - Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Environmental precautions:**
 - Do not allow to penetrate the ground/soil.
 - Do not allow product to reach sewage system or any water course in the undiluted form.
- **Methods and material for containment and cleaning up:**
 - Ensure adequate ventilation.
 - Pick up mechanically.
 - Send for recovery or disposal in suitable receptacles.
 - Do NOT absorb in saw-dust or other combustible absorbents.
 - DO NOT add water to spilled materials.
 - DO NOT use floor sweeping compounds to clean up spills.
 - Every attempt should be made to avoid mixing spilled material with other chemicals or debris when cleaning up.
 - DO NOT attempt to reseal any contaminated drums.
 - DO NOT transport wet or damp material. Damp material should be neutralized to a safe state.
- **Reference to other sections**
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**
- **PAC-1:** Substance is not listed.
- **PAC-2:** Substance is not listed.
- **PAC-3:** Substance is not listed.

US

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/03/2021

Reviewed on 12/03/2021

(Contd. of page 3)

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
 - Ensure good ventilation/exhaustion at the workplace.
 - Prevent formation of dust.
 - Avoid contact with clothing and other combustible materials.
 - Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.
 - Do not mix with acids.
 - Safety showers and eye wash facilities should be available at the work area.
 - Any deposit of dust which cannot be avoided must be regularly removed.
 - Keep away from heat and direct sunlight.
 - Never add water to the product. Always add product to large quantities of water. Use clean dry utensils. Do not add the product to any dispensing device containing residuals of other products.
 - Chlorine and chlorine compounds may be found in slight amounts in the head space of containers.
- **Information about protection against explosions and fires:**
 - Keep respiratory protective device available.
 - When heated up or included in a surroundings fire the material can decompose explosively.
 - Keep away from open flames.
 - Welding only under supervision.
 - Only work with vessels and lines after these have been thoroughly rinsed.
 - Work done with fire or open flame should only be carried out with written permission if the risk of fire or explosion cannot be completely eliminated.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:**
 - Do not store together with acids.
 - Store away from flammable substances.
 - Store away from reducing agents.
 - Store away from foodstuffs.
 - Store away from oxidizing agents.
 - Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
 - Select PPE appropriate for the operations taking place taking into account the product properties.
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the eyes and skin.
 - Do not eat, drink, smoke or sniff while working.
 - Do not breath dust
 - A safe system of work must be formulated and followed to ensure safe working with this product. Relevant workers must receive suitable and sufficient training and supervision.
 - Take note of assigned Workplace Exposure Limits.
 - Ensure that eyewash stations and safety showers are close to the workstation location.
 - Depending on the degree of exposure, periodic medical examination is suggested.

(Contd. on page 5)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/03/2021

Reviewed on 12/03/2021

(Contd. of page 4)

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:**

Protective work clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Granulate
Color:	White
Odor:	Like chlorine

- **pH-value (10 g/l) at 25 °C (77 °F):** 6-7

- **Change in condition**

Melting point/Melting range:	decomp. >252 °C (decomp. >485.6 °F)
Boiling point/Boiling range:	Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Product is not flammable.

- **Ignition temperature:** 250 °C (482 °F)

- **Danger of explosion:** Product does not present an explosion hazard.

- **Density at 20 °C (68 °F):** 0.97 g/cm³ (8.09465 lbs/gal)

- **Bulk density at 20 °C (68 °F):** 1000 kg/m³

- **Solubility in / Miscibility with**

Water at 25 °C (77 °F): >10 g/l*

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

Dynamic:	Not applicable.
Kinematic:	Not applicable.

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/03/2021

Reviewed on 12/03/2021

(Contd. of page 5)

- **Other information**

NOTE: The physical data presented above are typical values and should not be construed as a specification.
*Sodium dichloroisocyanurate hydrolyses rapidly upon addition to water.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Possibility of hazardous reactions**
Chlorine will be released in acidic conditions.
The substance has oxidising properties and reacts violently with combustible and reducing materials. Reacts violently with many substances, causing fire and explosion hazard.
Risk of fire and explosion on contact with strong reducing agents, strong bases, ammonia, urea, water.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:**
Strong acids and oxidising agents
Substances specifically listed in section 10.3 as incompatible.
- **Hazardous decomposition products:**
Hydrogen cyanide (prussic acid)
Chlorine, Nitrogen trichloride, Hydrogen chloride, Nitrogen oxide, and carbon monoxide.
Decomposes at 240 degrees C forming chlorine, nitrogen trichloride, NO_x, CO_x, cyanates.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

Oral	LD50	1,500 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Subacute to chronic toxicity:**
EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: Repeated or prolonged contact with skin may cause dermatitis.
- **Additional toxicological information:**
ROUTES OF EXPOSURE:
The substance can be absorbed into the body by inhalation of dust and by ingestion.

INHALATION RISK: Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.

EFFECTS OF SHORT-TERM EXPOSURE: The substance irritates the eyes, the skin and the respiratory tract. Corrosive on ingestion.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)** Substance is not listed.
- **NTP (National Toxicology Program)** Substance is not listed.
- **OSHA-Ca (Occupational Safety & Health Administration)** Substance is not listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.

(Contd. on page 7)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/03/2021

Reviewed on 12/03/2021

(Contd. of page 6)

- **Persistence and degradability**
This material is believed not to persist in the environment. Free available chlorine is rapidly consumed by reaction with organic and inorganic materials to produce chloride ion. The stable degradation products are chloride ion and cyanuric acid.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** Product is not expected to bioaccumulate.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Recommended Hierarchy of Controls:
 - Minimise waste;
 - Reuse if not contaminated;
 - Recycle, if possible; or
 - Safe disposal (if all else fails).
 Contact waste processors for recycling information.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.
- **Uncleaned packagings:**
- **Recommendation:**
Container remains hazardous when empty. Continue to observe all precautions.
Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.
Do not mix with other waste streams.

14 Transport information

- | | |
|---|--|
| <ul style="list-style-type: none"> · UN-Number · DOT, ADR, IMDG, IATA | UN3077 |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT | Environmentally hazardous substance, solid, n.o.s. (troclosene sodium, dihydrate) |
| <ul style="list-style-type: none"> · ADR | 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium, dihydrate) |
| <ul style="list-style-type: none"> · IMDG, IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium, dihydrate) |

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/03/2021

Reviewed on 12/03/2021

(Contd. of page 7)

· **Transport hazard class(es)**

· **DOT**



· **Class** 9 Miscellaneous dangerous substances and articles
 · **Label** 9

· **ADR, IMDG, IATA**



· **Class** 9 Miscellaneous dangerous substances and articles
 · **Label** 9

· **Packing group**

· **DOT, ADR, IMDG, IATA** III

· **Environmental hazards:**

· **Marine pollutant:** No
 Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **Special marking (IATA):** Symbol (fish and tree)

· **Special precautions for user** Warning: Miscellaneous dangerous substances and articles

· **Stowage Category** A

· **Transport in bulk according to Annex II of**

MARPOL73/78 and the IBC Code Not applicable.

· **Transport/Additional information:**

· **IMDG**

· **Limited quantities (LQ)** 5 kg

· **UN "Model Regulation":** UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TROCLOSENE SODIUM, DIHYDRATE), 9, III

15 Regulatory information

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

No further relevant information available.

· **Sara**

· **Section 355 (extremely hazardous substances):** Substance is not listed.

· **Section 313 (Specific toxic chemical listings):** Substance is not listed.

· **TSCA (Toxic Substances Control Act):** Substance is not listed.

· **Hazardous Air Pollutants** Substance is not listed.

· **Proposition 65**

· **Chemicals known to cause cancer:** Substance is not listed.

· **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.

· **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.

· **Chemicals known to cause developmental toxicity:** Substance is not listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)** Substance is not listed.

· **TLV (Threshold Limit Value)** Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/03/2021

Reviewed on 12/03/2021

(Contd. of page 8)

- **GHS label elements**
The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms** GHS07
- **Signal word** Warning
- **Hazard statements**
Harmful if swallowed.
Causes serious eye irritation.
May cause respiratory irritation.
- **Precautionary statements**
Avoid breathing dust.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Call a poison center/doctor if you feel unwell.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product safety department.
- **Contact:**
- **Date of preparation / last revision** 12/03/2021 / -
- **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

US