



Section 1 Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier	
	Trade name	LEGIOCID[®]C
	Substance	Sodium thiosulphate pentahydrate, sodium thiosulfate 5 hydrate
	CAS-Nr	10102-17-7
	EINECS-N ^o	231-867-5
	Registration number acc. REACH	Not available.
1.2	Relevant identified uses of the substance or mixture and uses advised against.	
	Use of substance	Fixing salt
1.3	Supplier	TCDO Produktionsgesellschaft mbH Carola-Blome-Str. 7 A-5020 Salzburg Tel: +43 662 434342-0 Fax: +43 662 434342-3
	Contact	Mr. G. Weiss Email: office@wapotec.at
1.4	Emergency phone	+43 662 43 43 42-0 Office hours: MO - TH: 8.00 - 16.00 FR: 8.00 - 12.00 Toxicity information centre Vienna: Phone: +43 1 406 43 43 Available 0-24h



Section 2 Hazards identification

2.1	Classification of the substance or mixture	 according to Directive (EC) N ^o 1272/2008 Not app. The product is not classified hazardous.
2.2	Label elements	 according to Directive (EC) 1272/2008 Not app. The product does not need to be labeled according to Directive (EC) 1272/2008.

☉ Danger defining components for labeling

Not app.

2.3 Other hazards

Unknown.

Section 3 Information on the ingredients

3.1 Substance

Name	CAS # / EC # / Index #
Sodium thiosulphate pentahydrate, sodium thiosulfate 5 hydrate	10102-17-7 / 231-867-5 /---

Section 4 First-aid measures

4.1 Description of first-aid measures

Remove immediately all contaminated clothing.
Consult physician on complaints.
No serving in case of unconsciousness or cramps.

☉ After inhalation

Move affected person immediately to fresh air. Consult physician on complaints.
Upon unconsciousness transport and rest in recovery position.

☉ After skin contact

Generally the product is not irritating to the skin. After skin contact, wash with plenty of water. Consult physician on complaints.

☉ After eye contact

After eye contact, rinse eye for 10 to 15 minutes with water holding eye lids apart.
Consult physician.

☉ After ingestion

Rinse mouth with water. Consult physician if discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

No further data available.

4.3 Indication of any immediate medical attention and special treatment needed

Depending on patient's condition, symptoms and general condition should be evaluated by a physician.

Section 5 Fire-fighting measures

5.1 Extinguishing media

- ☉ Suitable extinguishing media
CO₂, extinguishing powder or water spray.
- ☉ Unsuitable extinguishing media for safety reasons
Full water jet

5.2 Special hazards arising from the substance or mixture
Unknown.

5.3 Special protective actions for fire-fighters
Special protective equipment: Wear self-contained breathing apparatus and full protective clothing.



Section 6 Accidental release of material

- 6.1 Personal precautions, protective equipment and emergency procedures.
Restricted access to affected area until cleaning work has been completed. Wear appropriate protective clothing. Ensure sufficient ventilation. Avoid contact to substance. Avoid inhaling dust.
- 6.2 Environmental precautions
Do not allow undiluted product to reach surface water, ground water or sewage system.
- 6.3 Methods and material for containment and cleaning up
Pick up mechanically. Provide sufficient ventilation.
Dispose contaminated material as waste in proper container according to section 13.
- 6.4 Reference to other sections
Protective measures see section 8
Disposal see section 13



Section 7 Handling and storage

- 7.1 Precautions for safe handling
Avoid contact with eyes and skin. Do not inhale dust.
- 7.2 Conditions for safe storage including any incompatibilities
- ☉ Fire and explosion protection measures
No special measures required.
 - ☉ Requirements for storage rooms and container
Keep container in a dry place.
 - ☉ Material incompatibility
No data available.
 - ☉ Recommended storage temperature room temperature

- C VbF class not app.
- 7.3 Specific end uses
- Fixing salt



Section 8 Exposure controls/personal protection

- 8.1 Control parameters

The product does not contain relevant quantities of substances with critical values that have to be monitored at the workplace.
- 8.2 Limitation and monitoring of exposure
 - C General protective and hygiene measures

The usual precautionary measures for contact with chemicals are to observe. Keep away from food and drink. Do not drink or eat during work. Wash hands before breaks and at the end of the work.

Remove contaminated work clothing and clean thoroughly before reuse. Protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
 - C Respiratory protection

Not required.
 - C Hand protection

Not required.
 - C Eye protection

Tightly sealed goggles.
 - C Personal protection

Protective work wear.
 - C Environmental exposure controls

Do not allow product to reach sewage system /groundwater/surface water.



Section 9 Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

C Appearance	Solid
C Color	White
C Odor	Odorless
C Odor threshold	No data available.
C pH	6.8 (248 g/l water)
C Melting point	48 °C

Initial boiling point / boiling range	No data available.
Flash point	Not applicable.
Evaporation rate	No data available.
Flammability	Not flammable.
Upper explosion limit	No data available.
Lower explosion limit	No data available.
Vapor pressure (50 °C)	No data available.
Bulk density (20°C)	1.69 g/cm ³
Water solubility (20°C)	500 g/l
Partition coefficient; n-octanol-water	No data available.
Auto ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity (20°C)	No data available.
Explosive properties	This product is non-explosive.
Oxidizing properties	No data available.

9.2

Other data

The product is slightly hygroscopic.



Section 10 Stability and reactivity

10.1	Reactivity No hazardous reaction when using according to intended purpose.
10.2	Chemical stability Stable when using according to intended purpose. No decomposition expected.
10.3	Possibility of hazardous reactions No dangerous reactions known.
10.4	Conditions to avoid No decomposition when using according to intended purpose
10.5	Incompatible materials No data available.
10.6	Hazardous decomposition products No hazardous decomposition products known.

Section 11 Toxicological information

11.1 Information on toxicological effects

Classification relevant LD50-values (literature value)

Name	CAS #	
Sodium thiosulphate anhydrous	7772-98-7	LD ₅₀ (oral/rat) > 2000 mg/kg LD ₅₀ (dermal/rabbit) > 2000 mg/kg

No data available.

Acute toxicity)

Based on available data the classification criteria are not met.

Corrosive/irritant to skin

Based on available data the classification criteria are not met.

Serious eye damage/eye irritation

Based on available data the classification criteria are not met.

Eye contact with dusts may lead to irritations due to mechanical friction.

Respiratory/skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

The product does not contain any ingredients at a concentration equal or higher than 0.1%, being classified as mutagen.

Based on available data the classification criteria are not met.

Carcinogenicity

The product does not contain any ingredients at a concentration equal or higher than 0.1%, being listed as carcinogen at the International Agency for Cancer Research (IARC) or the American Conference for Governmental Industrial Hygienic (ACGIH).

Based on available data the classification criteria are not met.

Reproductive toxicity

The product does not contain any ingredients at a concentration equal or higher than 0.1%, being classified as toxic for reproduction.

Based on available data the classification criteria are not met.

Specific target organ toxicity for single exposure

Based on available data the classification criteria are not met.


Inhalation of dusts may lead to irritations due to mechanical friction.

Specific target organ toxicity for multiple exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

 Further information

The substance is classified according to regulation (EC)1272/2008 Annex 1.

Section 12 Ecological information

12.1 Toxicity

The substance is categorized according to CLP-Regulation (EG) 1272/2008 Annex I and to Dangerous Substance Directive 67/548/EG.

Fish toxicity:

Pimephales promelas LC₅₀ > 10000 mg/l / 96 h (origin: external MSDS)

Daphnia toxicity:

LC₅₀ (*Daphnia magna*): EC₅₀ = 1223 mg/l 48 h (origin: external MSDS)

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulation potential

No bioaccumulation expected.

12.4 Mobility in soil

No data available for the product itself.

12.5 Results of PBT- and vPvB-assessment

No data available.

12.6 Other adverse effects

Do not allow product to reach groundwater, water bodies or soil.

Section 13 Disposal considerations

13.1 Waste treatment methods

Smaller residues can be disposed of together with household waste.

Larger amounts have to be disposed of by authorized companies only.

Do not allow product to reach the sewage system, soil or water bodies.

 Waste key number

51540 g (ÖNORM S 2100); List of waste

 Waste name

Other salts, readily soluble

 European waste catalogue

060314 (solid salts and solutions other than those mentioned in 060311 and 060313)

Note: The EWC-waste key is origin-related. This may lead to a change in the classification. The decision is up to the end user.





 Contaminated packaging material

Recommendation: Empty container completely and deliver to a specialized company for reconditioning, recycling or disposal.

Section 14 Transport Information

- No dangerous good according to the Hazardous Material Transportation Act
- 14.1 UN-Number
ADR, RID, AND, IMDG, IATA: Void.
- 14.2 UN Proper Shipping Name
ADR, RID, AND, IMDG, IATA: Void.
- 14.3 Transport hazard class
ADR, RID, AND, IMDG, IATA: Void.
- 14.4 Packing group
ADR, RID, AND, IMDG, IATA: Void.
- 14.5 Environmental hazards
Not applicable.
- 14.6 Special precautions for the user
Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL and according to IBC-Code
Not applicable.

Section 15 Regulatory information

- 15.1 Safety-, health- and environmental regulations/legislation specific for the substance or mixture
- This safety data sheet complies with the Regulations (EC) Reach N° 1907/2006. The substance is categorized according to Directive (EC) 1272/2008 Annex I.
- National regulatory:**
- Austria:
-  ChemG 1996-amendment 2011
This product is not classified hazardous according to the Austrian chemical legislation of 1996-amendment 2011.
 -  VbF - Directive about combustible liquids (BGBl 1991/240)
Not applicable
- Germany:
-  Classification in water hazard classes according VwVwS dated 17.05.1999 Annex 2 Index 386
WHC 1 (slightly hazardous for water)
 -  Hazardous incidence ordinance

Hazardous incidence ordinance, Annex: not mentioned

15.2 Chemical Safety Assessment

No data available.

Section 16 Other information

The information provided on this MSDS is correct to the best of our knowledge and information, but not to be considered as warranty or quality specification nor creates contractual relationship. The information given is designed only as guidance for safe handling. Since unknown risk potentials can never be completely ruled out, the product should be handled with the usual care when dealing with chemicals and only for the uses listed in Section 1.

The categorization according to Annex VI of regulation CLP (EC) 1272/2008 as well as upon manufacturer details completed by indications from hazardous material database and the ECHA.

 Relevant H-Phrases

Not applicable.


 Relevant hazard classification

Not applicable.

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Amendments: 11

 Written by UmEnA GmbH (<http://www.umena.at>)

 Translated by WAPOTEC GmbH

 Short cuts PBT persistent, bio-accumulative, toxic
vPvB high persistent, high bio-accumulative
WHC water hazardous class
ECHA European Chemicals Agency (<http://www.echa.eu>)