

Safety data sheet

according to Regulation (EC) No 1907/2006 (REACH)

TRIDURO
Status 08.2018

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

1.1 Product identifier
Designation TRIDURO

1.2 Relevant identified uses of the substance or mixture and uses advised against
Description/use Coating mortar.

1.3. details of the supplier providing the safety data sheet.

Company name	edelundstein GmbH
Address	Einsteinstraße 12
Location and country	33104 Paderborn GERMANY
	Tel. +49 5254 9330731
	Fax + +49 5254 9330733

E-mail of the competent person, info@edel-und-stein.com
responsible for the safety data sheet.

1.4. emergency number

For urgent information contact; Technical information: Dr Felix Ferlemann +49 170 / 7362924

SECTION 2. possible hazards

2.1 Classification of the substance or mixture.

The product is classified as dangerous according to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adaptations). Accordingly, the product shall be accompanied by a safety data sheet in accordance with the provisions of Regulation (EC) 1907/2006 and subsequent amendments.

Any additional information on health and/or environmental hazards is provided under sections 11 and 12 of this map.

2.1.1 Regulation 1272/2008 (CLP) and subsequent amendments and adaptations.

Hazard classification and hazard statement:

Eye Dam. 1	H318
Skin Irrit. 2	H315
STOT SE 3	H335
Skin Sens. 1	H317

2.1.2. Directive 67/548/EEC and 1999/45/EC and subsequent amendments and adaptations.

Hazard symbols: Xi

R-phrases: 37/38-41-43

The detailed text of the risk phrases (R) and hazard statements (H) is given under section 16 of the supplement.

2.2 Marking elements.

Hazard labelling according to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adaptations.



Signal words:
H318
H315
H335
H317

Danger
Causes serious eye damage.
Causes skin irritation.
May cause respiratory irritation.
May cause allergic skin reactions.

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P101	If medical advice is needed, have packaging or label at hand.
P102	Keep out of the reach of children.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P305+P351+P338lf	contact with eyes occurs: Rinse cautiously with water for several minutes. Remove existing contact lenses if possible. Continue rinsing.
P501	Dispose of contents / container in accordance with national legislation.

Contains: CEMENT PORTLAND white

2.3 Other hazards.

Data not available.

SECTION 3. composition/information on ingredients

3.1. substances.

Preparation of the following substances with non-hazardous additions. Hazardous ingredients:

Alkyl dimethyl benzyl ammonium chloride EINECS: 270-325-2 Kennb. C, Xn, R-phrases 22, 34, S-phrases 2, 13, 20, 24, 25, 37, 392 -	5 wt. %.
Alkylamidopropyl betaine EINECS: 263-058-8 Ind. Xi, R-phrases 36, S-phrases 2, 25, 39	5 -8 wt. %
Trisodium nitrilotriacetate EINECS: 225-768-6 Identif. Xn, R-phrases 22, 36, S-phrases 2, 13, 20, 24, 25, 37, 39	5 -8 wt. %

Ingredients according to EC recommendation: No information necessary.
INDEX.

Note: the top range value is excluded.

The detailed text of the risk phrases (R) and hazard statements (H) is given under section 16 of the supplement.

T+ = Very toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidising(O), E = Explosive(E), F+ = Extremely flammable(F+), F = Highly flammable(F), N = Environmentally hazardous(N)

SECTION 4. first aid measures

4.1 Description of first aid measures.

EYES: Any contact lenses must be removed. Wash immediately and thoroughly with water for at least 15 minutes, opening the eyelids well. If the problem persists, consult a doctor.

SKIN: Soiled, soaked clothing must be taken off. Wash off immediately and thoroughly with water. If irritation persists, consult a doctor. Contaminated clothing should be washed before reuse.

INHALATION: The affected person should be carried outdoors. If breathing is labored, seek medical advice.

INCLUSION: A doctor must be consulted immediately. Vomiting must only be induced on the instructions of the doctor. Nothing should be given orally without a doctor's order or if the person is unconscious.

4.2 Most important symptoms and effects, both acute and delayed.

For symptoms and effects of the substances contained, see Chap. 11.

4.3. indications for immediate medical help or special treatment.

Data not available.

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SECTION 5. fire-fighting measures

5.1 Extinguishing media.

SUITABLE EXTINGUISHING AGENTS

The extinguishing agents are the usual ones: Carbon dioxide, foam, powder and water mist.

UNSUITABLE EXTINGUISHING AGENTS

Nothing special.

5.2 Special hazards arising from the substance or mixture.

HAZARDS AS A RESULT OF EXPOSURE TO FIRE

Avoid inhalation of combustion products. The product is flammable and may form explosive air-gas mixtures in the presence of sufficient concentrations of suspended particles and an ignition source. The fire may ignite or be ignited by any sparks emitted from the product.

container may be further entertained if it reaches high temperatures or in contact with sources of ignition.

5.3 Advice for fire fighting.

GENERAL INFORMATION

The containers shall be cooled with water jets to prevent the decomposition of the product and the formation of potentially harmful substances.

prevent. Complete fire protection clothing must be worn at all times. Extinguishing water that is not allowed to enter the sewage pipes shall be collected. The water used for extinguishing and the fire residues shall be collected in accordance with the regulations in force.

PERSONAL PROTECTIVE EQUIPMENT

Normal firefighting clothing, e.g. an open-circuit compressed air respirator (EN 137) firefighting kit (EN469), firefighting gloves (EN 659) and firefighting boots (HO A 29 or A30).

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures.

Avoid formation of dust by spraying water on the product if there are no contraindications. Vapours / mists / gases must not be inhaled. Appropriate protective equipment (including personal protective equipment as per para. 8 from the safety data) shall be put on to prevent contamination of skin, eyes and personal clothing. These instructions apply to both reprocessing supervisors and emergency stop interventions.

6.2 Environmental protection measures.

Prevent the product from entering waste water, surface water, ground water.

6.3 Methods and material for containment and cleaning.

The spilled product must be taken up with spark-restraining, mechanical means and transferred to containers for reuse or disposal. Residues should be disposed of with water jets, unless there are contraindications.

Ensure sufficient ventilation of the affected area. The materials of the containers according to para. 7 must be checked for possible incompatibility. Contaminated material must be disposed of in accordance with the regulations under point 13.

6.4 Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1 Protective measures for safe handling.

Do not handle the product until you have read all other sections of this safety sheet. Avoid dispersal of the product in the environment. Do not eat, drink or smoke when using the product.

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7.2 Conditions for safe storage taking into account incompatibilities

Let us look at the applicability: TRGS 510.

The product must be stored in clearly labelled containers. The containers must be kept away from any incompatible materials, referring to section 10.

7.3 Specific end uses.

Protect from temperatures below -5 and above 70°C, VbF class not applicable.

SECTION 8. Exposure controls/personal protective equipment

8.1 Parameters to be monitored.

Additional information on the design of technical installations: No further information, see point 7.

Personal protective equipment:

General protective and hygienic measures: Keep away from food, drink and animal feed.

Take off soiled, soaked clothing.

Wash hands with soap and water before breaks and at the end of work, avoid contact with eyes and skin.

Hand protection:

No special measures necessary

Eye protection:

No special measures necessary.

8.2 Exposure controls and monitoring.

Considering that appropriate protective measures should always take precedence over personal protective clothing, provide for good ventilation of the workplace through effective local exhaust ventilation. Personal protective clothing shall comply with the applicable regulations specified below.

HAND PROTECTION

Protect the hands with category II work gloves (see Directive 89/688/EEC and standard EN 374) made of PVC, neoprene, nitrile or equivalent. For a definitive choice of material for the work gloves, the following aspects must be included: Wear, tear resistance and permeability. For homemade gloves, the resistance of the work gloves must be tested before use, as it is not predictable. The gloves have a certain wear time, which depends on the exposure.

EYE PROTECTION

Wear a visor bonnet or a protective visor in combination with hermetic safety goggles (see standard EN 166).

SKIN PROTECTION

Wear long-sleeved work clothing and category II protective footwear (see directive 89/686/EEC and standard EN 344). Wash with soap and water after removing protective clothing.

ATEM PROTECTION

If the limit value (if any) of one or more substances contained in the preparation is exceeded with regard to daily exposure in the working environment or a proportion determined by the company's precautionary and protective department, respiratory protection type FFP3 (see standard EN 141/EN 143) must be worn.

The use of respiratory protective devices, such as protective masks of the type specified above, is necessary if technical measures to reduce operator exposure are not taken. The protection provided by the mask is limited in any case.

If the substance is odourless or the quantity dangerous for exposure is below the perception of odour, or in case of danger, i.e. if the quantity dangerous for exposure is unknown or the oxygen concentration in the work area is below 17%, a respirator with compressed air and open circuit must be worn (see standard EN 137) or a respirator with external air supply and half or full mask or mouthpiece (see standard EN 138).

An eyewash unit and an emergency shower must be provided.

POST-TESTING OF ENVIRONMENTAL EXPOSURE.

Emissions from manufacturing processes, including those from ventilation equipment, should be checked for compliance with environmental legislation.

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SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties.

Form:	liquid at room temperature
colour:	green
Odour:	fresh - floral
Start of solidification:	-10 °C
Boiling point:	100 °C
Flash point:	above 100 °C
Ignition temperature:	not determined (above 200 °C)
Explosion hazard:	No explosion hazard
Density at 20°C:	1.03 g/cm ³
Solubility in water:	Unlimited
pH value(I OÖg/1, 20°C):	7-8
Viscosity at 20°C:	30 mPa.s

9.2 Other information.

Data not available.

SECTION 10. Stability and reactivity

10.1 Reactivity.

No special reaction hazards with other substances under normal conditions of use.

10.2 Chemical stability.

The product is stable under normal processing and storage conditions.

10.3 Possibility of hazardous reactions.

Under normal conditions of use and storage, no hazardous reactions are foreseen.

10.4 Conditions to avoid.

None in particular. However, the usual caution with chemical products must be observed.

10.5 Incompatible materials.

Data not available.

10.6 Hazardous decomposition products.

Data not available.

SECTION 11. Toxicological information

11.1 Information on toxicological effects.

In the absence of toxicological test data on the product, any adverse effects on product health due to the properties of the substances contained therein were evaluated according to the criteria of the relevant standard for classification. For the evaluation of toxicological effects in the case of product exposure, the concentrations of the individual pollutants possibly listed under para. 3 are to be taken into account.

The product causes severe eye injury and may cause corneal dullness, iris injury and irreversible eye discoloration.

Severe effects: skin contact causes inflammation with rashes, oedema, dryness and skin cracking. Inhalation of the vapours may cause mild inflammation of the upper respiratory tract. Swallowing the substance may cause adverse health effects such as abdominal pain with heartburn, nausea and vomiting.

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Severe effects: inhalation of the vapours causes inflammation of the lower and upper respiratory tract with coughing and difficulty breathing; at elevated concentrations it may also cause pulmonary oedema. Swallowing the substance may cause adverse health effects, such as abdominal pain with heartburn, nausea and vomiting.
Skin contact with the product causes sensitisation (contact dermatitis). The skin inflammation starts where the skin zones repeatedly come into contact with the sensitising substance. The following skin lesions may occur: Rashes, oedema, vesicles, blisters, pustules, scales, skin cracks and exudation symptoms, which may change depending on the state of the disease and on the affected skin zones. In the acute phase, the rash, oedema and exudation predominate. In the chronic phases, scales, skin dryness, skin cracks and skin thickening predominate.

The product has the following hazards based on the general EC classification guidelines for the preparation irritant.

SECTION 12. Environmental information

Use according to best working practice and take care not to spill the product in the habitat. Notify the appropriate authorities if the product has entered water courses or sewers or if the product has contaminated the ground or vegetation. **12.1 Toxicity.**
Slightly hazardous to water

12.2 Persistence and degradability.

Data not available.

12.3 Bioaccumulative potential.

Data not available.

12.4 Mobility in soil.

Data not available.

12.5 Results of PBT and vPvB assessment.

Based on the available information, the product does not contain PBT or vPvB substances in content percentages greater than 0.1%.

12.6 Other adverse effects.

Data not available.

SECTION 13. Disposal instructions

13.1 Waste treatment processes.

Reuse if possible. Product residues are to be considered as hazardous waste. The hazardousness of the waste partially containing this product must be evaluated on the basis of the applicable legal provisions.

Disposal must be entrusted to a company licensed for waste management, taking into account national and, if applicable, local regulations.

In any case, the product must not penetrate into the ground, sewers or watercourses.

CONTAMINATED PACKAGING MATERIAL Contaminated packaging material must be sent for recycling or disposal in accordance with the country's waste management regulations.

SECTION 14. Transport information

The product is not dangerous according to the regulations in force in the field of road transport of dangerous goods (A.D.R.), by rail (RID), by sea (IMDG Code) and by air (IATA).

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SECTION 15 Legislation

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

Seveso category. None.

Restrictions on the product or substances according to Annex XVII Regulation (EC) 1907/2006.

Substances contained.

Alkyl dimethyl benzyl ammonium chloride
Alkylamidopropyl betaine
Trisodium nitrilotriacetate

Substances according to Candidate List (Art. 59 REACH).

None

Substances subject to authorisation (Annex XIV REACH).

None

Substances subject to export notification (EC) Regulation 689/2008:

None.

Substances subject to the Rotterdam Convention:

None

Stockholm Convention-obligatory substances:

None

Health checks

Workers exposed to this chemical agent do not have to undergo sanitary surveillance. This is only on condition that the results of the risk assessment prove that there is only a moderate risk to the safety and health of workers and that the measures provided for by Directive 98/24/EC are sufficient to limit the risk.

15.2 Chemical safety assessment.

No chemical assessment of the mixture and substances contained therein carried out.

SECTION 16. other information

Text of the hazard statements (H) mentioned under sections 2-3 of the supplementary sheet:

Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin sensitisation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitisation, category 1
H318	Causes serious eye damage
H315	Causes skin irritation
H335	May irritate the respiratory tract
H317	May cause allergic skin reactions

Text of (R) Hazard phrases given under sections 2-3 of the supplement:

R37/38	IRRITATING TO RESPIRATORY SYSTEM AND SKIN
R41	RISK OF SERIOUS EYE DAMAGE
R43	SENSITISATION POSSIBLE THROUGH SKIN CONTACT

STATEMENT:

- ADR: European Agreement concerning the Carriage of Dangerous Goods by Road
- CAS NUMBER: Number of the Chemical Abstract Service

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- CE50: Effective concentration in 50% of the population exposed to the test.
- CE NUMBER: ESIS identification number (European repository of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived no-effect level
- EmS: Emergency Schedule
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- IATA DGR: International Air Transport Association Regulation on the Carriage of Dangerous Goods.
- IC50: immobilisation concentration at 50% of the population subjected to the experiment
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organisation
- INDEX NUMBER: Identification number in Annex VI to CLP.
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: occupational exposure level
- PBT: Persistent bioaccumulative and toxic according to REACH
- PEC: Predicted Environmental Concentration
- PEL - predictable exposure level
- PNEC: foreseeable no-effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- TLV: Threshold Limit Value
- TVL CEILING: this concentration must never be exceeded during work exposure.
- TWA STEL: short-term suspension limit
- TWA: medium-term weighted exposure limit
- VOC: volatile organic compound
- vPvP: very persistent and very bioaccumulative according to REACH.

GENERAL BIBLIOGRAPHY:

1. directive 1999/45/EC and subsequent amendments
- (2) Directive 67/548/EEC and subsequent amendments and adaptations.
3. regulation (EC) 1907/2006 of the European Parliament (REACH)
4. regulation (EC) 1272/2008 of the European Parliament (CLP)
5. regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
6. regulation (EC) 453/2010 of the European Parliament
7. regulation (EC) 286/2011 of the European Parliament (II Atp. CLP)
- 8 The Merck Index. Ed. 10
- 9 Handling Chemical Safety
- 10 Niosh - Registry of Toxic Effects of Chemical Substances
- 11 INRS - Fiche Toxicologique
- 12 Patty - Industrial Hygiene and Toxicology
13. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989
- 14 ECHA Agency website

Explanation for the user:

The information contained in this card is based on the knowledge available to us on the date of the latest version. The user must ensure the suitability and completeness of the information regarding the specific use of the product.

This document must not be interpreted as a guarantee of any specific characteristic of the product.

Because the use of the product is not directly controlled by us, the user has the obligation, under his own responsibility, to respect the laws and regulations in force in the field of hygiene and safety. No liability is accepted for incorrect use.

The personnel entrusted with the handling of chemicals shall be trained accordingly.