Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))
CORROTEK

Regulation (EU) n. 2020/878

Safety Data Sheet date: 14/10/2024, version 10

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

1.1. Product identifier

Trade name: CORROTEK
SDS code: P43465EU
UFI: H383-U8XJ-R147-QTE1

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

Recommended use:

Deoxidizer

Industrial uses

Uses advised against:

No uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Manufacturers:

Socomore SASU - Zone Industrielle du Prat - CS 23707 - 56037 VANNES CEDEX - France -Tel. +33 (0)2 97 43 76 90

Manufacturing - Parc Gohelis - 56250 ELVEN France - Tel +33 (0)2 97 43 76 83 - Fax +33 (0)2 97 54 50 26

Socomore Ireland Ltd. - Meenane, Watergrasshill, Co. Cork, Ireland - Tel +353 21 4889922 / Fax +353 21 4889923 / ireland@socomore.com

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Competent person responsible for the safety data sheet:

msdsinformation-eu@socomore.com

1.4. Emergency telephone number

France : ORFILA (INRS) +33 (0)1 45 42 59 59

International : CHEMTEL +1-813-248-0585.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Warning, Skin Irrit. 2, Causes skin irritation.

Danger, Eye Dam. 1, Causes serious eye damage.

Danger, Repr. 1B, May damage fertility. May damage the unborn child.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

Danger

Hazard statements:

H315 Causes skin irritation.

H318 Causes serious eye damage.

H360FD May damage fertility. May damage the unborn child.

Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves and eye/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTER if you feel unwell.

Special Provisions:

None

Contains

ORTHOBORIC ACID, COMPOUND WITH 2,2'-IMINODIETHANOL

2,2'-iminodiethanol; diethanolamine

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 7% - < 10%	ORTHOBORIC ACID, COMPOUND WITH 2, 2'-IMINODIETHANOL	CAS: 67952-33-4 EC: 267-886-0	3.1/4/Oral Acute Tox. 4 H302 3.2/2 Skin Irrit. 2 H315 3.3/1 Eye Dam. 1 H318 3.7/1B Repr. 1B H360FD 3.9/2 STOT RE 2 H373 (lungs)

				(Inhalation)
>= 3% - < 5%	2,2'-iminodiethanol; diethanolamine	Index number: CAS: EC: REACH No.:	603-071-00-1 111-42-2 203-868-0 01-2119488930-28	3.7/2 Repr. 2 H361fd 3.9/2 STOT RE 2 H373 3.2/2 Skin Irrit. 2 H315 3.3/1 Eye Dam. 1 H318 3.1/4/Oral Acute Tox. 4 H302

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting. Obtain a medical examination.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Swelling.

Blisters.

Intense burns and penetrating ulcers in the skin.

Irritation of the digestive system.

Abdominal pain.

Nausea

Vomiting

Diarrhea.

Risk of respiratory tract irritation.

Dry/sore throat.

Cough

Headache

Difficult breathing.

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or

safety data sheet if possible).
Treatment:
No particular treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water.
Carbon dioxide (CO2).
Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Exercise the greatest care when handling or opening the container.
Don't use empty container before they have been cleaned.
Before making transfer operations, ensure that there aren't any incompatible material residuals in the containers.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.
Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

- OEL Type: ACGIH - TWA(8h): 1 mg/m3 - Notes: (IFV), Skin, A3 - Liver and kidney dam
- OEL Type: National - TWA(8h): 15 mg/m3, 3 ppm - Notes: France
- OEL Type: National - TWA(8h): 2 mg/m3, 0.46 ppm - Notes: Netherlands
- OEL Type: National - TWA(8h): 2 mg/m3, 0.46 ppm - Notes: Belgium
- OEL Type: National - TWA: 0.2 ppm - Notes: DOW IHG, skin
- OEL Type: National - TWA: 9 mg/m3 - Notes: Poland / Polska (skóra)

DNEL Exposure Limit Values

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Worker Industry: 1 mg/m3 - Consumer: 0.25 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 0.13 mg/kg - Consumer: 0.07 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 0.06 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 33 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

PNEC Exposure Limit Values

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Target: Fresh Water - Value: 0.0022 mg/l

Target: Marine water - Value: 0.00022 mg/l

Target: Freshwater sediments - Value: 0.019 mg/kg

Target: Marine water sediments - Value: 0.0019 mg/kg

Target: Soil (agricultural) - Value: 0.00108 mg/kg

Target: Microorganisms in sewage treatments - Value: 100 mg/l

Target: Sporadic discharge - Value: 0.022 mg/l

Biological Exposure Index

N.A.

8.2. Exposure controls

See below, example of PPE to use.

Eye protection:

Safety goggles (EN 166)

Face protection shield. (EN 166)

Use closed fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Protection for hands:
Suitable gloves type: NF EN374
NR (natural rubber, natural latex).
NBR (nitrile rubber).
PVA (Polyvinyl alcohol).
PVC (polyvinyl chloride).
Butyl rubber (isobutylene-isoprene copolymer)
Respiratory protection:
In case of Aerosol or mist formation, use respiratory protection such as P2 (filters at least 94 % of airborne particles; colour code: White).

Thermal Hazards:
None
Environmental exposure controls:
None
Appropriate engineering controls:
None
Other conditions affecting workers exposure:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Light yellow	--	--
Odour:	N.A.	--	--
Melting point/freezing point:	Not Relevant	--	--
Boiling point or initial boiling point and boiling range:	100 ?C	--	water base
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point (°C):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	9,8	ISO 4316, ASTM E70	--

Kinematic viscosity:	N.A.	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1.03	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

No other relevant information

Volatile Organic compounds - VOCs = 0 g/l

N.A. = not available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

CORROTEK

Acute toxicity

Not classified

Based on available data, the classification criteria are not met

ATEmix - Oral 5712,65 mg/kg bw

Skin corrosion/irritation
The product is classified: Skin Irrit. 2 H315
Serious eye damage/irritation
The product is classified: Eye Dam. 1 H318
Respiratory or skin sensitisation
Not classified
Based on available data, the classification criteria are not met
Germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
Carcinogenicity
Not classified
Based on available data, the classification criteria are not met
Reproductive toxicity
The product is classified: Repr. 1B H360FD
STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
Aspiration hazard
Not classified
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:
2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2
Acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 1600 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 12.970 mg/kg
Test: LC0 - Route: Inhalation - Species: Rat = 0.2 mg/l - Duration: 8h
Carcinogenicity:
Test: NOAEL - Route: Skin - Species: Rat = 32 mg/kg bw/day - Notes: 103 weeks, LOAEL = 40 mg/kg bw/jour
Reproductive toxicity:
Test: NOAEC - Species: Rat = 300 mg/kg bw/day - Notes: daily weeks, fertility
Test: NOAEC - Species: Rat = 150 mg/kg bw/day - Notes: 6-15 days, development
Test: NOAEL - Species: Rat = 50 mg/l - Notes: 6-15 days, development

11.2. Information on other hazards

Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

Other toxicological information:
ORTHOBORIC ACID, COMPOUND WITH 2,2'-IMINODIETHANOL
Irritant, route: OPT, dangerous: calculated

-

2,2'-iminodiethanol; diethanolamine
Skin corrosion / irritation (rabbit):
Irritating effect
Severe eye injury/irritation (rabbit):
Irreversible damage
May cause liver damage in case of prolonged or repeated exposures.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

CORROTEK

Not classified for environmental hazards

Based on available data, the classification criteria are not met

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1460 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: EC50 - Species: Daphnia = 55 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 2.2 mg/l - Duration h: 96 - Notes: Pseudokirchneriella subcapitata

Endpoint: NOEC - Species: Daphnia = 0.78 mg/l - Duration h: 504 - Notes: LOEC : 1,56 mg/l

Endpoint: EC10 - Species: Microorganisms > 1000 mg/l - Duration h: 0.5

12.2. Persistence and degradability

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Biodegradability: Biodegradability rate - Test: OECD 301F - Duration: 28 days - %: 93

12.3. Bioaccumulative potential

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Log Pow -2.18

12.4. Mobility in soil

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Log Koc 0 or -1.1472

Volatility (H: Henry's Law Constant) 0.000004 Pa.m3/mol - Notes: 25°C

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

No harmful effects expected.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Codes of wastes (Décision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):

06 02 05* other bases

SECTION 14: Transport information

14.1. UN number or ID number

Not classified as dangerous in the meaning of ADR, IATA and IMDG transport regulations.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

ADR-Enviromental Pollutant: No

IMDG-Marine pollutant: No

14.6. Special precautions for user

N.A.

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:
Restriction 3
Restrictions related to the substances contained:
Restriction 75

Listed or in compliance with the following international inventories:
TSCA - Toxic Substances Control Act

Labelling of detergents (EC Regulations 648/2004 and 907/2006):
N.A.

Labelling of biocides (Regulations 1896/2000, 1687/2002, 2032/2003, 1048/2005, 1849/2006, 1451/2007 and Directive 98/8/EC):
N.A.

N.A.

Where applicable, refer to the following regulatory provisions :
Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.
1999/13/EC (VOC directive)
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
None

15.2. Chemical safety assessment
No

SECTION 16: Other information

N.A.: Not Applicable or Not Available

Full text of phrases referred to in Section 3:
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H360FD May damage fertility. May damage the unborn child.
H373 (lungs) (Inhalation) May cause damage to organs (lungs) through prolonged or repeated exposure if inhaled.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Repr. 1B	3.7/1B	Reproductive toxicity, Category 1B
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2

This safety data sheet has been completely updated in compliance to Regulation 2020/878.
Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 2: Hazards identification
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 15: Regulatory information

(EC) 1272/2008 [CLP] Yönetmeligine göre karisimlarin siniflandirmasini elde etmek için kullanilan siniflandirma ve prosedür:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Repr. 1B, H360FD	Calculation method

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van

Nostrand Reinold
CCNL - Appendix 1
Insert further consulted bibliography

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SOCOMORE strongly advises every recipient of this safety data sheet to read it carefully and to consult experts in the field if necessary or appropriate, in order to understand the information it contains, notably the possible dangers associated with this product. The users must ensure the conformity and completeness of this information with regards to their specific use of the product.
The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the responsibility of the purchaser/user to ensure that their activities conform with current legislation in force.

The information is considered correct, but it is not exhaustive and it shall be used only as a guide which is based on the current knowledge of the substance or mixture and it is applicable to the safety precautions appropriate for the product.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.

RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
STOT SE:	May cause drowsiness or dizziness
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.