# SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

of the mixture

**EVAPO-RUST** 

Registration number

**Synonyms** None

BDS002699BU **Product code** 06-April-2022 Issue date

Version number 1.1

**Revision date** 12-August-2022 Supersedes date 06-April-2022

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

Identified uses Scale and rust remover

Uses advised against None known. 1.3. Details of the supplier of the safety data sheet

CRC Industries Europe by Company name

**Address** Touwslagerstraat 1

> 9240 Zele Belgium

+32(0)52/45.60.11 Telephone +32(0)52/45.00.34 Fax E-mail hse@crcind.com Website www.crcind.com

1.4. Emergency telephone

number

Tel.: +32(0)52/45.60.11 (office hours: 9-17h CET)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

## 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Hazard pictograms** None. None. Signal word

**Hazard statements** The mixture does not meet the criteria for classification.

**Precautionary statements** 

Prevention Not applicable. Response Not applicable. Not applicable. Storage Disposal Not applicable.

Supplemental label information EUH210 - Safety data sheet available on request.

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

Material name: EVAPO-RUST - Manufacturers SDS GREAT BRITAIN

#### **General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Salt of an Organic Acid	<5	Confidential	Confidential	-	
		-			
Classifica	tion: Acute Tox	c. 4;H302, Eye Irrit. 2;	H319		
Organic acid	<3	Confidential	Confidential	-	
		=			
Classifica	ition: Eye Irrit. 2	2;H319, STOT SE 3;H	1335		

#### List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#: This substance has been assigned Union workplace exposure limit(s).

The full text for all H-statements is displayed in section 16. **Composition comments** 

#### **SECTION 4: First aid measures**

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms

and effects, both acute and

delayed

Exposure may cause temporary irritation, redness, or discomfort.

4.3. Indication of any Treat symptomatically.

immediate medical attention and special treatment needed

### **SECTION 5: Firefighting measures**

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising

from the substance or mixture

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting

procedures

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

During fire, gases hazardous to health may be formed.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

For emergency responders

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

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For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## **SECTION 7: Handling and storage**

7.1. Precautions for safe

handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

7.2. Conditions for safe Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

storage, including any SDS

incompatibilities Storage class (TRGS 510): 12 (Non-combustible liquids that cannot be assigned to any of the

above storage classes)

7.3. Specific end use(s) Not available.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

**Recommended monitoring** 

procedures

Follow standard monitoring procedures.

#### Derived no effect levels (DNELs)

#### **General population**

Components	Value	Assessment factor	Notes
2-[bis(2-hydroxyethyl)amino]ethanol (CA	S 102-71-6)		
Long-term, Local, Inhalation	0.4 mg/m3	36	Repeated dose toxicity
Long-term, Systemic, Dermal	2.66 mg/kg	100	Repeated dose toxicity
Salt of an Organic Acid (CAS Confidentia	ıl)		
Long-term, Local, Inhalation	10 mg/m3		irritation respiratory tract
Long-term, Systemic, Dermal	24 mg/kg	20	Repeated dose toxicity
<u>Workers</u>			
Components	Value	Assessment factor	Notes
2-[bis(2-hydroxyethyl)amino]ethanol (CA	S 102-71-6)		
Long-term, Local, Inhalation	1 mg/m3		Repeated dose toxicity
Long-term, Systemic, Dermal	7.5 mg/kg	50	Repeated dose toxicity
Salt of an Organic Acid (CAS Confidentia	ıl)		
Long-term, Local, Inhalation	10 mg/m3		irritation respiratory tract
Long-term, Systemic, Dermal	48 mg/kg	10	Repeated dose toxicity
dicted no effect concentrations (PNECs	s)		
Components	Value	Assessment factor	Notes
2-[bis(2-hydroxyethyl)amino]ethanol (CA	S 102-71-6)		
Freshwater	0.32 mg/l	50	
Sediment (freshwater)	1.7 mg/kg		
Soil	0.151 mg/kg		
STP	10 mg/l	100	
Salt of an Organic Acid (CAS Confidentia	ıl)		
Freshwater	0.096 mg/l	100	
Secondary poisoning	5.3 mg/kg	90	Oral
Sediment (freshwater)	193 mg/kg		
Soil	14 mg/kg	50	
STP	58 mg/l	5	

#### 8.2. Exposure controls

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

## Individual protection measures, such as personal protective equipment

General information Personal protection equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

**Eye/face protection** Wear safety glasses with side shields (or goggles). Use eye protection conforming to EN 166.

Skin protection

- Hand protection For incidental contact with the product wear chemical-resistant gloves (standard EN 374). The use

of disposable gloves is acceptable provided that they are changed immediately after a splash or

spill. Neoprene gloves are recommended.

- Other Wear suitable protective clothing

**Respiratory protection** Not necessary in normal use. Wear approved respirator if exposure likely to exceed MEL/OES.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply

with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to

acceptable levels

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid.

Form Not available.

**Colour** Colourless to yellow.

Odour Neutral.

Odour threshold Not available.

**pH** 5.5

Melting point/freezing point Not available.

Initial boiling point and boiling > 100 °C (> 212 °F)

range

Flash point

Evaporation rate

Not available.

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit – upper N

Not available.

(%)

Vapour pressureNot available.Vapour densityNot available.Relative density1.1 g/cm3

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 325 °C (617 °F) estimated

Decomposition temperatureNot available.ViscosityNot available.Explosive propertiesNot explosive.Oxidising propertiesNot oxidising.

**9.2. Other information** No relevant additional information available.

## **SECTION 10: Stability and reactivity**

**10.1. Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability** Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**10.4. Conditions to avoid**Contact with incompatible materials.

**10.5. Incompatible materials** Strong oxidising agents.

**10.6. Hazardous** Not available.

decomposition products

# **SECTION 11: Toxicological information**

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

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**Skin contact**Based on available data, the classification criteria are not met. **Eye contact**Based on available data, the classification criteria are not met.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

**Symptoms** Exposure may cause temporary irritation, redness, or discomfort.

#### 11.1. Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Product Species Test Results

**EVAPO-RUST** 

Acute Oral

ATEmix 28445.2 mg/kg bw

Components Species Test Results

Organic acid

<u>Acute</u>

Dermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Mouse 5000 mg/kg

Salt of an Organic Acid

**Acute** 

Dermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat 940 mg/kg

Skin corrosion/irritation

Serious eye damage/eye

irritation

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

**Respiratory sensitisation** Based on available data, the classification criteria are not met.

**Skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

CarcinogenicityBased on available data, the classification criteria are not met.Reproductive toxicityBased on available data, the classification criteria are not met.

Specific target organ toxicity -

single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity -

repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard Based

Based on available data, the classification criteria are not met.

Mixture versus substance

information

Not available.

# **SECTION 12: Ecological information**

**12.1. Toxicity**The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Species Test Results** Organic acid Aquatic Acute 1535 mg/l, 24 hours Crustacea LC50 Daphnia Fish LC50 Fish 440 mg/l, 48 hours Salt of an Organic Acid Aquatic Acute Algae EC50 Algae 9.16 mg/l, 96 hours Crustacea EC50 Daphnia 370 - 380 mg/l, 48 hours

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Components Species Test Results

Fish LC50 Fish > 200 mg/l, 96 hours

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Organic acid -1.64 Salt of an Organic Acid <-3.5

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

**12.6. Other adverse effects**No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Dispose of contents/container in accordance with local/regional/national regulations. Empty

containers should be taken to an approved waste handling site for recycling or disposal.

**EU waste code**The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

**Disposal methods/information** Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Special precautions** Dispose in accordance with all applicable regulations.

Not established.

## **SECTION 14: Transport information**

**ADR** 

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

**ADN** 

14.1. - 14.6.: Not regulated as dangerous goods.

**IATA** 

14.1. - 14.6.: Not regulated as dangerous goods.

**IMDG** 

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Code

## **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Retained direct EU regulations

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

## Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

#### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

#### Other regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

#### List of abbreviations

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. ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).

CAS: Chemical Abstract Service.

Ceiling: Short Term Exposure Limit Ceiling value. CEN: European Committee for Standardization.

CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification,

labeling and packaging of substances and mixtures.

GWP: Global Warming Potential.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).

RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value.

VOC: Volatile organic compounds. vPvB: Very persistent and very bioaccumulative.

STEL: Short-term Exposure Limit.

#### References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15

H302 Harmful if swallowed.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Revision information

Product and Company Identification: Alternate Trade Names

**Training information** Follow training instructions when handling this material.

#### Disclaimer

CRC Industries Europe byba cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Apart from any fair dealing for purposes of study, research and review of health, safety and environmental risks, no part of these documents may be reproduced by any process without written permission from CRC.

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