

SAFETY DATA SHEET

According to Regulation (EU) 2015/830, amending Annex II of Regulation (EC) No 1907/2006 (REACH)

REDOX (SOLDER DROSS REMOVER)

Printing date: 09/06/2021

Version: 1

Revision date: 26/02/2021

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

1.1. Product identifier

Trade name : REDOX
Description : Solder dross remover

Trade name	Description
REDOX	Solder Dross Remover

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

Identified uses : Industrial use.
Uses advised against : Do not use for other purposes other than those described in the product.

1.3. Details of the supplier of the safety data sheet

Supplier : BROQUETAS, S.L.
Address : c/ Can Sallarès 12-16
08740 Sant Andreu de la Barca, Barcelona (España)
Telephone number : +34 936401900
E-mail address for a competent person responsible for the safety data sheet: broquetas@broquetas.com

1.4. Emergency telephone number

Availability : +34 936401900
Monday to Friday from 8:00 to 14:00 h.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) N° 1272/2008 [CLP]	
Hazard Classes/ categories	Hazard statements (H)*
GHS07 Harmful	H319: Causes serious eye irritation

2.2. Label elements

Labelling (CLP)

Regulation (EC) N° 1272/2008 [CLP]		
Signal Word and Pictograms	Hazard statements (H)	Precautionary Statements (P)*
Warning	H319: Causes serious eye irritation.	P202, P270, P280, P305+P351+P338, P337+P313, P501
 GHS07		

*Full text of the Precautionary Statements (P): See section 16

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.



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2.3. Other hazards

Compliance with PBT/vPvB criteria

: The product does not contain substances classified as PBT or vPvB.

Other hazards not identified in the classification

Risk of burn hazards when touching hot parts of the unit at high temperatures. Inhaling the mothball fumes can cause health problems. Ensure proper ventilation.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Liquid composition:

Chemical name	Content (%)	CAS number	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Citric acid	50-100	77-92-9	Eye Irrit. 2; H319
Dicarboxylic acid mixture (C6)	10-50	124-04-9	Eye Irrit. 2; H319
Dicarboxylic acid mixture (C9)	10-40	123-99-9	Eye Irrit. 2; H319

SECTION 4: First aid measures

4.1. Description of first aid measures

General notes

: If a health problem is detected, seek medical advice.

In case of inhalation

: Move exposed person to fresh air and seek medical advice.

In case of contact with skin

: Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

In case of contact with eyes

: Immediately rinse long with water for several minutes holding the eyelids open for a good cleaning. Consult an ophthalmologist.

In case of ingestion

: Rinse mouth immediately and drink plenty of water.

Recommendations for first aid responders

: The protection to first-aid personnel: Should wear the protection equipment of level C to give first aid in the safe area.

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

: Rinse mouth immediately and drink plenty of water.

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

: Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

: Co-ordinate fire-fighting measures to the fire surroundings

Unsuitable extinguishing media

: D powder.

5.2. Special Hazards arising from the substance or mixture

Hazardous combustion products

: Non flammable

Other specific hazards

: In case of fire: Wear self-contained breathing apparatus.



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5.3. Advice for firefighters

: In case of fire, use personal protective equipment as required. Firefighters must wear fire resistant protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Follow the indications described in section 8.

For emergency responders

: Avoid contact with skin, eyes, and clothing. Follow the indications described in section 8.

6.2. Environmental precautions

: Do not flush product into public sewer, water systems or surface waters.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

: Safe handling: see section 7.
Personal protection equipment: see section 8
Disposal: see section 13 Treat the recovered material as prescribed in the section on waste disposal. See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevention and protection measures

: The product may be handled only by appropriately trained personnel and with appropriate Individual protection measures. During the working process the product attains high temperatures so using suitable gloves and eye protection and wearing a mask in poorly ventilated areas is recommended, as it is described in section 8.2.

Advice on general occupational hygiene

: Do not eat, drink, or smoke while handling the product. Keep proper hygiene after handling. Not explosive.

7.2. Conditions for safe storage, including any compatibilities

Technical measures and storage conditions

: Keep container tightly closed.

Containers requirements and storage areas

: Keep away from heat
Protect against frost

Further information for storage

: Keep away from heat or sunlight.

7.3. Specific end use (s)

: Surface active agent
Further information: refer to Technical Data Sheet

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

: Not available.

DNELs and PNECs

: Not available.

8.2. Exposure controls

Appropriate engineering controls

: Use only in open or well-ventilated areas. Use preferably localized extraction.

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Individual protection measures, such as personal protective equipment

Eye/face protection

: Proper handling may include wearing protective glasses.

Skin protection

Hand protection

: Avoid contact with the skin.

Others

: Use the appropriate protective clothing of welders.

Respiratory protection

: Avoid breathing dust or fumes during use.

Environmental exposure controls

: Consider the usual precautions to protect the environment, see section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

: White, light yellow powder.

Odour

: Characteristic.

Odour threshold

: Not available / Not applicable.

pH

: Not available / Not applicable.

Melting point

: 133-160°C

Initial boiling point and boiling range

: >300°C

Flash point

: Non flammable.

Evaporation rate

: Not available / Not applicable.

Flammability (solid, gas)

: Not flammable.

Upper/lower flammability or explosive limits

: Not applicable.

Vapour pressure (20°C)

: Undetermined

Vapour density

: Not applicable.

Density at (20°C)

: 1.3 g/cm³

Solubility(ies)

: Easily soluble.

Solvent content

: 0%

Solid content

: 100%

Decomposition temperature

: Not available / Not applicable.

Viscosity

: Not applicable.

Explosive properties

: Not applicable.

Oxidising properties

: Not applicable.

9.2. Other information

: No further relevant information available.

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SECTION 10: Stability and reactivity

10.1. Reactivity	: No ignition, explosion, self-heating, or visible decomposition.
10.2. Chemical stability	: The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).
10.3. Hazardous reactions	: No risks worthy of mention.
10.4. Conditions to avoid	: No risks worthy of mention.
10.5. Materials to avoid	: No data available.
10.6. Hazardous decomposition products	: Thermal decomposition can lead to the escape of irritating gases and vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Hazard/Effect class	
Acute toxicity	: CAS 124-04-9 Dicarboxylic acid mixture (C6) Oral LD50 (rat) → 5700 mg/kg CAS 77-92-9 Citric acid Oral LD50 (rat) → 5400 mg/kg Dermal LD50 (rat) → >2000 mg/kg CAS 123-99-9 Dicarboxylic acid mixture (C9) Oral LD50 (rat) → >4000 mg/kg Dermal LD50 → >10000 mg/kg
Skin corrosion/irritation	: On the basis of the available data, the classification criterion is not complied.
Serious eye damage/irritation	: On the basis of the available data, the classification criterion is not complied.
Respiratory or skin sensitisation	: On the basis of the available data, the classification criterion is not complied.
Germ cell mutagenicity	: On the basis of the available data, the classification criterion is not complied.
Carcinogenicity	: On the basis of the available data, the classification criterion is not complied.
Reproductive toxicity	: On the basis of the available data, the classification criterion is not complied.
STOT-single exposure	: On the basis of the available data, the classification criterion is not complied.
STOT-repeated exposure	: On the basis of the available data, the classification criterion is not complied.
Aspiration hazards	: On the basis of the available data, the classification criterion is not complied.
Symptoms	: -
Chronical effects	: -

SECTION 12: Ecological information

12.1. Toxicity information	: The product is not: Ecotoxic.
12.2. Persistence and degradability	: The product is biodegradable. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).
12.3. Bioaccumulative potential	: On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely. .
12.4. Mobility in soil	: No data available.

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12.5. Results PBT and vPvB assessment

: The product does not contain any substance classified as PBT or vPvB.

12.6. Ecological effects information

: Other side effects are not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of waste treatment of both substance or mixtures

: Product waste must be transported to an authorized waste disposal plant. Dispose according to local and national regulations. Do not remove by direct discharge into rivers or sewage system.

Appropriate methods of waste treatment of contaminated packaging

: Handle contaminated containers as the product itself.

SECTION 14: Transport information

	ADR/RID	AND/ADNR	IMDG	IATA
14.1. UN number	The product is not classified according to transport agreements.			
14.2. UN proper shipping name				
14.3. Transport hazard class (es)				
14.4. Packing group				
14.5. Environmental hazards				
14.6. Special precautions for user				
Special dispositions				

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

: Not applicable.

SECTION 15: Regulatory information

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

EU regulations

REACH authorizations

: The product does not contain a substance present in the candidate list of SVHC, and in Annex XIV of REACH.

REACH use restrictions

: The product has no restriction of use.

Regulation (EC) 2037/2000 on substances that deplete the ozone layer

: Not applicable.

15.2. Chemical safety assessment

: An evaluation of the product's chemical safety has not been carried out.

SECTION 16: Other information

Changes to the previous version

: Format adaptation to the REACH Regulation amendment, the Regulation (EU) 2015/830. Mixture classified according to Regulatory (CE) 1272/2008 (CLP).

Abbreviations and acronyms

: SDS: Safety data sheet
PBT: Persistent, bioaccumulative and toxic
vPvB: Very persistent and very bioaccumulative
TLV: Threshold Limit Values
TWA: Time Weighted Average
ACGIH: American Conference of Industrial Hygienists
DNEL: Derived non-effect level
PNEC: Predicted non-effect concentration

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SVHC: Substances of Very High Concern
LD50: Median Lethal dose.
LC50: Median Lethal Concentration.
ATEmix: Acute toxicity estimated of the mixture.

Key literature references and sources for data

: Safety data sheet of the components.
<https://echa.europa.eu/>

Indication of which of the methods of evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 was used for the purpose of classification

: Classification of the mixture from the components classifications.

Full text of hazard statements (H)

: H319: Causes serious eye irritation
EUH210: Safety data sheet available on request.

Full Text of precautionary statements

: P202: Do not handle until all safety precautions have been read and understood.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/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.
P337+P313: If eye irritation persists: Get medical advice/attention.
P501: Dispose of contents/container to Dispose of waste according to regulation of each country.

Advice on any training appropriate for workers:

: Maintenance and production plant crew has received information and training on the safety instructions in plant and equipment.

NOTES

: This information only refers to the product described in this file and may not be valid if it is used in conjunction with another product (s) or in any process. The information presented is based on our most accurate level of current knowledge and is provided in good faith but cannot be guaranteed or ensured its accuracy or reliability. It is a guide for the safe handling, use, processing, storage, transportation and disposal of this product and should not be considered a guarantee or a quality specification.