



# SAFETY DATA SHEET

## REDOX FERROTECH

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

#### 1.1. Product identifier Product

**name** : REDOX FERROTECH

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

**Use of the Product** : Alkyd paint in emulsion for exteriors.

#### 1.3. Information on the supplier of the safety data sheet

Akzo Nobel Coatings SpA Via  
Pietro Nenni 14,  
28053 Castelletto sopra Ticino,  
Tel. +39 0331 916611  
Internet: [www.sikkens.it](http://www.sikkens.it)

**E-mail address of the Responsible person of the safety data sheet** : [service.clienti@akzonobel.com](mailto:service.clienti@akzonobel.com)

#### 1.4 Emergency telephone number

**Telephone number** : Telephone number: +39 0331 916611 (active 24/7) International AkzoNobel emergency number: +31 71 3086944 (active 24/7)

**Version** : 1

**Date of issue previous one** : No previous validation

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition:** Blend

**Classification according to EC Regulation No. 1272/2008 [CLP / GHS]**

Flam. Liq. 3, H226

STOT SE 3, H336

This product is classified as dangerous according to Regulation (EC) 1272/2008 and subsequent amendments.

**Ingredients of unknown toxicity** : 0%

**Ingredients of unknown ecotoxicity** : 0%

See section 16 for the full text of the hazard statements mentioned above. For more detailed information on health effects and symptoms, see Section 11.

### 2.2 Label elements Hazard

**pictograms**



**Warning**

: Caution

**Hazard statements**

: H226 - Flammable liquid and vapor. H336 - May cause drowsiness or dizziness.

**Precautionary advice**

**General**

: P102 - Keep out of reach of children.  
P101 - If a doctor is consulted, have the product container or label available.

**Prevention**

: P210 - Keep away from heat sources, heated surfaces, sparks, flames and other ignition sources. Smoking prohibited.  
P233 - Keep container tightly closed.  
P262 - Avoid contact with eyes, skin or clothing.

**Reaction**

: P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 - If you feel unwell, call a POISON CENTER or doctor.

**storage**

: P235 - Keep in a cool place.

**Disposal**

: P501 - Dispose of product and container in accordance with local, regional, national, international regulations.

**Dangerous ingredients**

: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

**Additional elements of the label**

: Contains butanone oxime. It can cause an allergic reaction. Repeated exposure may cause skin dryness or cracking.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain substances, preparations and articles dangerous**

: Not applicable.

**Special Packaging Obligations**

**Containers that must be equipped with a child safety lock**

: Not applicable.

**Tactile warning of danger**

: Not applicable.

### 2.3 Other dangers

**Voluntary element of the label (CEPE)**

: Not applicable.

## REDOX FERROTECH

## SECTION 2: Hazards identification

Other dangers not  
mentioned in the  
classification

:None known.

## SECTION 3: Composition / information on ingredients

## 3.2 Mixtures

:Blend

Product name/ ingredient	Identifiers	%	Regulation (EC) n. 1272/2008 [CLP]	Guy
Hydrocarbons, C9-C11, nalkanes, isoalkanes, cyclics, <2% aromatics	REACH #: 01-2119463258-33	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	[1]
Solvent naphtha (petroleum), light aromatic	REACH #: 01-2119455851-35 CE: 265-199-0 CAS number: 64742-95-6 Index: self classified	<1	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	REACH #: 01-2119457273-39	≤3	Asp. Tox. 1, H304 EUH066	[1]
Hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35	<2.5	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
calcium isononanoate	CE: 258-901-1 CAS number: 53988-05-9	≤3	Acute Tox. 4, H302 Eye Irrit. 2, H319	[1]
Methyl ethyl ketoxime	REACH #: 01-2119539477-28 CE: 202-496-6 CAS number: 96-29-7 Index: 616-014-00-0	<1	Acute Tox. 4, H312 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351	[1]
calcium oxide	CE: 215-138-9 CAS number: 1305-78-8	<1	Skin Corr. 1, H314 Eye Dam. 1, H318	[1] [2]
(methyl-2-methoxyethoxy) propanol	REACH #: 01-2119450011-60 CE: 252-104-2 CAS number: 34590-94-8	≤0.1	Not classified.	[2]
2-ethylhexanoic acid, manganese salt	CE: 240-085-3 CAS number: 15956-58-8	≤0.1	Eye Irrit. 2, H319 Repr. 2, H361fd (Fertility and Unborn Child) STOT RE 2, H373 Aquatic Chronic 2, H411 <b>See section 16 for the full text of the danger mentioned above.</b>	[1] [2]

There are no additional ingredients which, in the current knowledge of the supplier and in the applicable concentrations, are classified as dangerous for health or the environment, meet the PBT or vPvB criteria or are considered as substances with an equivalent degree of problematicity or substances to which an occupational exposure limit has been assigned and should therefore be reported in this section.

Guy

## SECTION 3: Composition / information on ingredients

- [1] Substance presenting a health or environmental hazard
- [2] Substance for which there are workplace exposure limits
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional information related to company policy

Occupational exposure limits, if known, are listed in section 8.

## SECTION 4: first aid measures

### 4.1 Description of first aid measures General

- : If in doubt or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If the victim is unconscious, have him assume the safety position and call the doctor.

#### Eye contact

- : Remove contact lenses, rinse thoroughly with clean, fresh water, holding the eyelids open for at least 10 minutes and seek immediate medical attention.

#### By inhalation

- : Bring to fresh air. Keep the person warm and at rest. In case of lack of breathing, irregular breathing or respiratory arrest, give artificial respiration or have oxygen administered by trained personnel.

#### Skin contact

- : Remove contaminated clothing and shoes. Wash thoroughly with soap and water or use an effective skin cleanser. DO NOT use solvents or thinners.

#### Ingestion

- : If swallowed, seek medical advice immediately and show the container or label. Keep the person warm and at rest. DO NOT induce vomiting.

#### Protection of rescuers

- : No action shall be taken involving any personal risk or without suitable training. If fumes are still suspected, wear a mask or respirator. Performing mouth-to-mouth resuscitation can be dangerous for the person helping.

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

There are no data available on the mixture itself. The mixture was evaluated following the conventional method of the CLP regulation (EC) No. 1272/2008 and is consequently classified according to its toxicological properties. For more details, see Sections 2 and 3.

Exposure to solvent vapor concentrations above the pre-established occupational limit can be harmful to health, causing irritation of the mucous membranes and respiratory tract with adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, dizziness and wobbling, fatigue, muscle weakness, sleepiness and in extreme cases loss of consciousness.

Solvents may cause some of the aforementioned effects via skin absorption. Repeated or prolonged contact with the mixture can result in the removal of natural skin fat, resulting in non-allergic contact dermatitis and absorption through the skin.

Contact of the liquid with the eyes can cause irritation and reversible damage.

Ingestion can cause nausea, diarrhea and vomiting.

If known, the delayed and immediate effects, as well as the chronic effects of the components deriving from short and long-term exposure, by the oral and dermal route, by inhalation and by contact with the eyes, are taken into account.

Contains butanone oxime. It can cause an allergic reaction.

### 4.3 Indication of any immediate medical attention and special treatment needed Notes to physician

- : Treat symptomatically. If large quantities are ingested or inhaled, contact a poison control center immediately.

#### Specific treatments

- : No specific treatment.

See Section 11 for Toxicological Information (Section 11)

**REDOX FERROTECH****SECTION 5: Firefighting measures****5.1 Extinguishing media**

**Suitable extinguishing media** : Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray.

**Unsuitable extinguishing media** : Do not use full jet water.

**5.2 Special hazards arising from the substance or mixture**

**Hazards arising from the substance or mixture** : Any fires develop thick black smoke. Exposure to decomposition products can be dangerous to health.

**Hazardous Combustion Products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, nitrogen oxides.

**5.3 Recommendations for firefighters**

**Special actions of protection for firefighters** : Cool closed containers exposed to flames with water. Do not channel the products of a fire into drains or water courses.

**Special protective equipment for personnel fire fighting** : The use of a self-contained breathing apparatus may be required.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

**For those who do not intervene directly** : Remove any sources of ignition and ventilate the room. Avoid breathing vapors or mists. Consult the protective measures listed in sections 7 and 8.

**For those who intervene directly** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency service operators".

**6.2 Environmental precautions:**

Do not dispose of the product in the sewer system and water courses. In case of contamination by the product of lakes, rivers or waste water, inform the competent authorities in accordance with current legislation.

**6.3 Methods and materials for: containment and**

quenching and tempering

Contain and collect any spills with non-combustible absorbent material, such as sand, earth, vermiculite, diatomite and dispose of the product in a container in accordance with current legislation (see Section 13). Clean, preferably using a detergent. Avoid using solvents.

**6.4 Reference to other sections**

: For emergency telephone numbers, see Section 1.  
See Section 8 for information on appropriate personal protective equipment.

For more information on waste treatment, refer to Section 13.

**SECTION 7: handling and storage**

The information contained in this section contains general information and warnings. Refer to the list of Identified Uses in Section 1 for specific information available provided in the exposure scenario (s).

**7.1 Precautions for safe handling**

: Prevent the development of flammable or explosive vapor concentrations in the air o that exceed the occupational exposure limits.  
Also, use the product only in rooms from which all naked flame lamps and other sources of ignition have been removed. Protect electrical equipment according to appropriate standards.  
The mixture can become electrostatically charged: always use ground connections when transferring it from one container to another.  
Operators must wear antistatic shoes and clothing, while floors must be conductive.

## SECTION 7: handling and storage

Keep away from sources of heat, sparks and flames. Do not use any tools that cause sparks.  
 Avoid contact with eyes and skin. Avoid inhalation of dust, particulates, aerosols or mists deriving from the application of this mixture. Avoid inhalation of dust deriving from sandblasting.  
 It is forbidden to eat, drink and smoke in areas where the material is handled, stored or treated.  
 Put on appropriate personal protective equipment (see Section 8).  
 Never empty the product by subjecting it to pressure. The container is not pressurized.  
 Always keep the material in the original container.  
 Observe the provisions of the laws relating to health and safety in the workplace.

Do not dispose of the product in the sewer system and water courses. **Information on fire and explosion protection**  
 Vapors are heavier than air and can spread over floors. Vapors can form explosive mixtures with air.

When the workers, for spraying or other operations, have to work inside the spray booth, the suction conditions are probably insufficient to keep the particulates and solvent vapors under control. In such circumstances they must wear ventilated breathing systems during spraying operations and this until the concentrations of particulate matter and solvent vapors have fallen below the exposure limits.

### 7.2 Conditions for safe storage, including any incompatibilities

Store according to local regulations.

#### Notes on shared storage

Keep away from: oxidizing agents, strong alkalis, strong acids. **Additional information on storage conditions**

Observe the precautions on the label. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. Smoking prohibited. Access prohibited to outsiders. Open containers must be carefully resealed and kept straight to prevent accidental product spillage.

### 7.3 Specific end uses

**Warnings** : Unavailable.

**Specific guidelines for the industrial sector** : Unavailable.

## SECTION 8: Exposure controls / personal protection

The information contained in this section contains general information and warnings. The information provided refers to the typical uses envisaged for the product. Additional measures may be needed for bulk processing or other uses that could significantly increase worker exposure or emissions to the environment.

### 8.1 Control parameters

#### Occupational exposure limits

Name of the product / ingredient	Exposure limit values
calcium oxide	<b>EU Occupational Exposure Limit Values (Europe, 2/2017). Notes: list of indicative occupational exposure limit values</b> STEL: 4 mg / m <sup>3</sup> 15 minutes. Form: Respirable fraction TWA: 1 mg / m <sup>3</sup> 8 hours. Form: Respirable fraction <b>Ministry of Labor and Social Policies (Italy, 10/2013). Absorbed through the skin.</b> 8 hours: 50 ppm 8 hours. 8 hours: 308 mg / m <sup>3</sup> 8 hours. <b>EU Occupational Exposure Limit Values (Europe, 2/2017).</b>
(methyl-2-methoxyethoxy) propanol	
2-ethylhexanoic acid, manganese salt	

**SECTION 8: Exposure controls / personal protection****Notes: list of indicative occupational exposure limit values**TWA: 0.2 mg / m<sup>3</sup>, ((as manganese)) 8 hours. Form: Inhalable fractionTWA: 0.05 mg / m<sup>3</sup>, ((as manganese)) 8 hours. Form: Respirable fraction**Monitoring Procedures:  
Recommended**

If this product contains ingredients with exposure limits, personal, workplace atmosphere and biological monitoring may be required to determine the effectiveness of ventilation or other control measures and / or the need to use protective equipment respiratory. Refer to the monitoring standards, such as the following: European standard EN 689 (Atmosphere in the workplace - Guidance on the assessment of exposure by inhalation to chemical compounds for the purpose of comparison with limit values and measurement strategy) Standard European EN 14042 (Atmospheres in the workplace - Guide to the application and use of procedures for assessing exposure to chemical and biological agents) European standard EN 482 (Atmospheres in

**DNEL / DMEL**

No DNEL / DMEL available.

**PNEC**

No PNECs available.

**8.2 Exposure controls Appropriate  
engineering controls**

: Provide adequate ventilation. When reasonably possible, this can be achieved by means of replacement ventilation and good general aspiration. If it is impossible to keep the concentrations of solvent vapors and powders below the occupational exposure limit, wear suitable means of respiratory protection.

**Individual protection measures****Hygiene measures**

: Before eating, smoking and using the lavatory and at the end of the working period, wash your hands, arms and face thoroughly after handling chemicals. Appropriate techniques should be used to remove potentially contaminated clothing. Wash the contaminated garments before reusing them. Make sure that the eyewash stations and emergency showers are close to the place of use.

**Eye / face protection**

: Use protective goggles to prevent accidental penetration of liquids into the eyes.

**Skin protection****Hand protection****Gloves**

: Recommended gloves are product containing common solvents. When frequent or prolonged contact is expected, the use of class 6 protective gloves is recommended (permeation time greater than 480 minutes according to EN 3740-3). In the case of occasional contact, the use of class 2 protective gloves is recommended (breakthrough time greater than 2 hours according to EN 3740-3)

NB. The choice of gloves must also take into account other specific processes carried out in the workplace, for example the presence of other chemicals, physical risks and possible allergic reactions to the material used for the production of the glove, therefore consult your trusted supplier.

The user must check that the final choice of type of glove for handling this product is the most appropriate and takes into account the particular conditions of use, as specified in the user's risk assessment.

Gloves must be replaced regularly and whenever there are signs of damage to the material they are made of.

## SECTION 8: Exposure controls / personal protection

	Always ensure that gloves are free from defects and that they are stored and used correctly.
<b>Device of body protection</b>	: Personnel must wear antistatic clothing made of natural fiber or synthetic fiber resistant to high temperatures.
<b>Other devices of skin protection</b>	: Choose appropriate footwear and any additional skin protection measures based on the activity being carried out and the inherent risks. Such choices must be approved by a specialist before handling this product.
<b>Respiratory protection</b>	: If workers are exposed to concentrations above the exposure limit, use appropriate, certified respirators.
	Treatments such as sanding, sandblasting or flame removal, etc., of the paint layers, can generate dangerous dust and / or fumes. Wet sanding should be used wherever possible. Respiratory protection in case of dust or spray mist formation. (particulate filter EN143 type P2) Respiratory protection in case of vapor formation. (half mask with A2-P2 combined filter up to concentrations of 0.5% by volume.)
<b>Environmental exposure controls</b>	: Do not dispose of the product in the sewer system and water courses.

## SECTION 9: physical and chemical properties

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

#### Appearance

<b>Physical state</b>	: Liquid.
<b>Color</b>	: Miscellaneous: See
<b>Odor</b>	: label. Unavailable.
<b>Odor threshold</b>	: Unavailable.
<b>pH</b>	: Unavailable.
<b>Melting point / freezing point</b>	: Unavailable.
<b>Initial boiling point and boiling range</b>	: 185 ° C
<b>Flash point</b>	: Closed cup: 41 ° C
<b>Evaporation rate</b>	: Unavailable.
<b>Upper / lower flammability or explosive limits</b>	: Unavailable.
<b>Vapor pressure</b>	: Unavailable.
<b>Vapor density</b>	: Unavailable.
<b>Relative density</b>	: 1.393
<b>Solubility (the solubilities)</b>	: Insoluble in the following materials: cold water.
<b>Partition coefficient: octanol / water</b>	: Unavailable.
<b>Temperature of self-ignition</b>	: Unavailable.
<b>Temperature of decomposition</b>	: Unavailable.
<b>Viscosity</b>	: Kinematic (room temperature): 11.49 cm <sup>2</sup> / s Not
<b>Explosive properties</b>	: available.
<b>Oxidizing properties</b>	: Unavailable.

### 9.2. Other information

<b>Solubility in water</b>	: Unavailable.
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**REDOX FERROTECH****SECTION 10: stability and reactivity**

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable under the recommended handling and storage conditions (see section 7).
- 10.3 Possibility of reactions:** Under normal conditions of storage and use, hazardous reactions will not occur. **dangerous**
- 10.4 Conditions to avoid** : If exposed to high temperatures it can produce dangerous decomposition products.
- 10.5 Incompatible materials:** To avoid strong exothermic reactions, keep away from the following materials: oxidizing agents, strong alkalis, strong acids.
- 10.6 Products of dangerous decomposition** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, nitrogen oxides.

**SECTION 11: toxicological information****11.1 Information on toxicological effects**

There are no data available on the mixture itself. The mixture was evaluated following the conventional method of the CLP regulation (EC) No. 1272/2008 and is consequently classified according to its toxicological properties. For more details, see Sections 2 and 3.

Exposure to solvent vapor concentrations above the pre-established occupational limit can be harmful to health, causing irritation of the mucous membranes and respiratory tract with adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, dizziness and wobbling, fatigue, muscle weakness, sleepiness and in extreme cases loss of consciousness.

Solvents may cause some of the aforementioned effects via skin absorption. Repeated or prolonged contact with the mixture can result in the removal of natural skin fat, resulting in non-allergic contact dermatitis and absorption through the skin.

Contact of the liquid with the eyes can cause irritation and reversible damage.

Ingestion can cause nausea, diarrhea and vomiting.

If known, the delayed and immediate effects, as well as the chronic effects of the components deriving from short and long-term exposure, by the oral and dermal route, by inhalation and by contact with the eyes, are taken into account.

Contains butanone oxime. It can cause an allergic reaction. **Acute toxicity**

**Conclusion / Summary** : Unavailable.

**Acute toxicity estimates**

Street	Acute Toxicity Assessment
Orally	40000 mg / kg

**Irritation / Corrosion**

Product name/ ingredient	Result	Species	Score	Exposure	Observation
Solvent naphtha (petroleum), light aromatic Methyl ethyl ketoxime  (methyl-2-methoxyethoxy) propanol	Eyes - Mild irritant	Rabbit	-	24 hours 100 microliters	-
	Eyes - Strongly irritating	Rabbit	-	100 microliters	-
	Eyes - Mild irritant	Human	-	8 milligrams	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

## REDOX FERROTECH

**SECTION 11: toxicological information**

**Conclusion / Summary** : Unavailable.

**Awareness raising**

**Conclusion / Summary** : Unavailable.

**Mutagenicity**

**Conclusion / Summary** : Unavailable.

**Carcinogenicity**

**Conclusion / Summary** : Unavailable.

**Reproductive toxicity**

**Conclusion / Summary** : Unavailable.

**Teratogenicity**

**Conclusion / Summary** : Unavailable.

**Specific target organ toxicity (STOT) - single exposure**

Name of the product / ingredient	Category	Via of exposure	Target organs
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	Category 3	Not applicable.	Narcosis
Hydrocarbons, C9, aromatics	Category 3	Not applicable.	Irritation of the pathways respiratory and Narcosis
Solvent naphtha (petroleum), light aromatic	Category 3	Not applicable.	Irritation of the pathways respiratory and Narcosis

**Specific target organ toxicity (STOT) - repeated exposure** Unavailable.

**Aspiration hazard**

Name of the product / ingredient	Result
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	DANGER IN CASE OF ASPIRATION - Category 1
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	DANGER IN CASE OF ASPIRATION - Category 1
Hydrocarbons, C9, aromatics	DANGER IN CASE OF ASPIRATION - Category 1
Solvent naphtha (petroleum), light aromatic	DANGER IN CASE OF ASPIRATION - Category 1

**Other information** : Unavailable.

**SECTION 12: ecological information****12.1 Toxicity**

There are no data available on the mixture itself.

Do not dispose of the product in the sewer system and water courses.

The mixture has been evaluated following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment, but contains one or more substances dangerous for the environment. See section 3 for more details.

Product name/ingredient	Result	Species	Exposure
calcium oxide	Chronic NOEC 100 mg / l Fresh water	Fish - Oreochromis niloticus - Juvenile	46 days

**Conclusion / Summary** : Unavailable.

**12.2 Persistence and degradability**

**Conclusion / Summary** : Unavailable.

**Date of issue / Date of revision** : 21-6-2019

## REDOX FERROTECH

## SECTION 12: ecological information

## 12.3 Bioaccumulative potential

Product name/ ingredient	LogP <sub>ow</sub>	BCF	Potential
Solvent naphtha (petroleum), light aromatic	-	10 to 2500	high
calcium isononanoate	-	3.1 to 7	low
Methyl ethyl ketoxime	0.63	2.5 to 5.8	low
calcium oxide	-	2.34	low
(methyl-2-methoxyethoxy) propanol	0.004	-	low
2-ethylhexanoic acid, manganese salt	-	2.96	low

## 12.4 Mobility in soil

Soil / water partition  
coefficient (K<sub>oc</sub>) : Unavailable.

Mobility : Unavailable.

## 12.5 Results of PBT and vPvB PBT

assessment : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information contained in this section contains general information and warnings. Refer to the list of Identified Uses in Section 1 for specific information available provided in the exposure scenario (s).

## 13.1 Waste treatment methods

Product

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products must always be carried out in accordance with the legal indications on environmental protection and waste disposal and the requirements of each relevant local authority. Dispose of surplus and non-recyclable products through an authorized waste disposal company. Untreated waste should not be disposed of in the sewer system unless it fully complies with the requirements of each entity and legislation.

**Hazardous waste** : The classification of the product could meet the criteria for hazardous waste.

**Considerations on the disposal** : Do not dispose of the product in the sewer system and water courses. Dispose of in accordance with applicable regional, state and local laws. If this product is mixed with other wastes, the original refused code can no longer be applied and an appropriate code will need to be assigned. For more information, contact the responsible waste disposal agency.

Packing

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging must be recycled. Incineration or landfilling should only be considered when recycling is not practicable.

## REDOX FERROTECH

**SECTION 13: Disposal considerations****Considerations on the disposal**

: Using the information provided in this safety data sheet, contact the appropriate waste disposal authority for guidance on the classification of empty containers.  
Empty containers must be discarded or reprocessed.  
Dispose of containers contaminated by the product in accordance with local or national regulatory requirements.

<b>Type of packaging</b> CEPE Paint Guidelines	<b>European Waste Catalog</b> 15 01 10 * packaging containing residues of dangerous substances or contaminated by such substances
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**Special precautions**

: Do not dispose of the product and the container except with due precautions. Care should be taken when handling emptied containers that have not been cleaned or rinsed. Empty containers or liners can retain product residues. The vapors emitted by product residues can develop an easily flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been thoroughly cleaned inside. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: Transport information**

**The information pertaining to IATA and ADN is considered irrelevant as the material is not packaged in the correct approved packaging required by these modes of transport.**

	<b>ADR</b>	<b>IMDG</b>
<b>14.1 UN number</b>	A1263	A1263
<b>14.2 Name of shipment of the UN</b>	PAINTS	PAINTS
<b>14.3 Classes of connected danger to transport Class</b>	3	3
<b>Secondary class</b>	-	-
<b>14.4 Group of packaging</b>	III	III
<b>14.5 Dangers for the environment</b> <b>Marine pollutant</b>  <b>Substances marine pollutants</b>	No.	No.  Unavailable.
<b>14.6 Precautions special for users</b>	<b>Transport within the user's property:</b> always carry out transport with closed containers, stored vertically and secured to the means of transport. Verify the suitability of the persons carrying out the transport to intervene effectively in the event of an accident and / or spill.	
<b>Number of identification of danger or number Kemler</b>	30	

**REDOX FERROTECH**

**The information pertaining to IATA and ADN is considered irrelevant as the material is not packaged in the correct approved packaging required by these modes of transport.**

Schemes of emergency ("EmS")

FE, SE

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

:Not applicable.

Information additional

**Viscous substance exemption** In pack sizes less than 450 liters, under the terms of 2.2.3.1. 5, this product is not subject to the provisions of ADR. **Tunnel code** (D / E)

**Exemption for viscous substances** In pack sizes up to and including 30 liters, in compliance with the terms of code 2.3.2.5, this product is not subject to the requirements packaging, labeling and marking referred to in the IMDG Code; however, all documentation and posting of the labels will still be required cargo transport.

## SECTION 15: Regulatory information

### 15.1 Health, safety and environmental legislation and regulations specific to the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorization

###### Annex XIV

None of the components are listed.

**Substances of Extremely Concern** None of the components are listed.

**Annex XVII - Restrictions on manufacturing, placing on the market and use of certain substances, preparations and articles dangerous** : Not applicable.

#### Other EU regulations

##### **VOC**

: The provisions of the VOC Directive 2004/42 / EC apply to this product. Consult the product label and / or data sheet for further information.

##### **VOC for ready-to-use mixtures**

: Not applicable.

##### **Industrial emissions (integrated prevention and reduction pollution) - Air**

: Present

##### **Industrial emissions (integrated prevention and reduction pollution) -**

: Present

Waterfall

#### Substances harmful to the ozone layer (1005/2009 / EU)

Not in the list.

**Prior Inform Consent (PIC - Prior Inform Consent) (649/2012 / UE)** Not in the list.

## SECTION 15: Regulatory information

### Seveso Directive

This product can cause an increase in the calculation for determining whether a site is within the limits of the Seveso Major Accident Hazards Directive.

### National standards

Legislative Decree 152/06

:0.031% Table B Class III  
0.031% Table B Class III - Total emissions  
  
0.031% Total emissions

### International Regulations

#### Chemical Weapons Convention List - Tables I, II and III Chemical Compounds

Not in the list.

#### Montreal Protocol (Annexes A, B, C, E) Not

in the list.

#### Stockholm Convention on Persistent Organic Pollutants Not in

the list.

#### Rotterdam Convention on Prior Informed Consent (PIC) Not in the list.

#### UNECE Protocol to the Aarhus Convention on Persistent Organic Pollutants and Heavy Metals Not in the list.

### 15.2 Evaluation of chemical safety

:No chemical safety assessment has been carried out.

## SECTION 16: other information

### CEPE code

:1

Indicates information that has changed from previously issued.

### Abbreviations and acronyms

: ATE = Estimation of Acute Toxicity  
CLP = Classification, Labeling and Packaging [Regulation (EC) No. 1272/2008] DMEL = Derived level with minimal effects  
DNEL = Derived No Effect Level  
EUH indication = CLP specific risk provisions PBT = Persistent, Bioaccumulative, Toxic  
PNEC = Predicted No Effect Concentration RRN = REACH Registration Number  
vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP / GHS]

Classification	Justification
Flam. Liq. 3, H226 STOT SE 3, H336	Based on the experimental data of the tests Calculation method

### Full text of abbreviated hazard statements

H226 H302 H304	Flammable liquid and vapor. Harmful if swallowed. It can be fatal if swallowed and if it enters the respiratory tract.
H312 H314 H317 H318 H319 H335 H336 H351 H361fd	Harmful in contact with skin. It causes serious skin burns and serious eye injuries. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. It can irritate the respiratory tract. It can cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child.

### Date of issue / Date of revision

:21-6-2019

## REDOX FERROTECH

## SECTION 16: other information

H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

[Full text of classifications \[CLP / GHS\]](#)

Acute Tox. 4, H302 Acute Tox. 4, H312 Aquatic Chronic 2, H411	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (skin) - Category 4 LONG-TERM (CHRONIC) HAZARD TO THE AQUATIC ENVIRONMENT - Category 2
Asp. Tox. 1, H304 Carc. 2, H351 EUH066	ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 Repeated exposure may cause skin dryness or cracking.
Eye Dam. 1, H318 Eye Irrit. 2, H319 Flam. Liq. 3, H226 Repr. 2, H361fd	SERIOUS EYE DAMAGE / EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE / EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY (Fertility and Unborn Child) - Category 2
Skin Corr. 1, H314 Skin Sens. 1, H317 STOT RE 2, H373	SKIN CORROSION / IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
STOT SE 3, H335	SPECIFIC TOXICITY TO TARGET ORGANS (SINGLE EXPOSURE) (Irritation of the respiratory tract) - Category 3
STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcosis) - Category 3

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**Date of issue previous one** : No previous validation

**Version** : 1

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