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RED SYNTHETIC IRON OXIDE

1. Identification of substance or preparation and of company/firm

1.1 Product Identifier

Commercial name : Red synthetic iron oxide

Product Chemical Name/Description : Iron oxide CAS NO. : 1309-37-1 CE NO. : 215-168-2

REACH Status : 01-2119457614-35-XXXX

1.2 Pertinent uses of the substance/preparation and uses advised against

Recommended uses: Abrasive materials, composite materials, industrial applications in the brake sector. Inorganic pigment. Uses advised against: No information available.

1.3 Details of supplier of information safety data sheet

ITAPROCHIM S.r.I.

Via Carlo Bianconi 8/A, 20139 Milan (Italy) Tel. +390257303726 Fax +39 0256817644

e-mail: quality@itaprochim.it

1.4 Emergency telephone numbers

ITAPROCHIM SRL

Tel. +39 0257303726 (available from 9 am to 6 pm) Tel. +39 0382 800873 (available from 8 am to 4.30 pm)

2. Hazard identification

2.1. Classification of the substance or preparation according to reg. 1272/2008 EC, as amended and aligned.

The product is not classified as hazardous according to the provisions of Regulation 1272/2008 EC (CLP), as amended and aligned.

2.2 Label elements

Pictograms: None Warnings: None

Hazard statements: None Precautionary statements None

2.3 Other hazards

No information available.

3. Composition/information on the ingredients

3.1 Substances

Identification	Concentration (% p/p)	Classification 1272/2008	Reg.	CE
Iron oxide CAS. 1309-37-1 CE. 215-168-2 N. Reg. 01-2119457614-35-XXXX	90-100	Not classified		

3.2 Preparations

Not applicable

4. First aid measures.

4.1 Description of first aid measures

There are no known episodes of harm to people responsibility for using the product. If necessary, adopt the following general measures:

INHALATION: Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if symptoms occur. If



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unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

INGESTION: Consult a doctor immediately. Do not administer anything by mouth if the person is unconscious.

EYES: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any medical attention if irritation occurs.

SKIN: No special measures. Wash with soap and water.

4.2 Main symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate need to consult a doctor and special treatment

No information available.

5. Fire-fighting measures

5.1 Extinguishing means

SUITABLE EXTINGUISHING MEANS
The product is not flammable. Use traditional extinguishing media.
UNSUITABLE EXTINGUISHING MEANS
Non in particular

5.2 Special hazards deriving from the substance or preparation

HAZARDS DUE TO EXPOSURE IN CASE OF FIRE

No specific fire or explosion hazard. The product is incombustible

5.3 Recommendations for fire-fighters

GENERAL INFORMATION

Always wear complete fire protection equipment. Collect extinguishing water that must not be discharged into drains. Dispose of contaminated water used for extinguishing and fire residues in accordance with current legislation.

EQUIPMENT Normal fire-fighting equipment such as open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and Fire Brigade boots (HO A29 or A30).

6. Measures in the event of accidental spillage

6.1 Personal precautions, protective equipment and procedures in case of an emergency

Avoid dust formation. Avoid breathing vapours/mists/gases. Wear suitable protective equipment (including the personal protective equipment listed in Section 8 of the Safety Data Sheet) to prevent skin, eye and personal clothing contamination. These indications are valid for both those engaged in processing as well as emergency operations.

6.2 Environmental precautions

Prevent the product from entering sewers, surface water, ground water

6.3 Methods and materials for containment and reclamation

Collect the spilled product with mechanical anti-spark equipment and place it in containers for recovery or disposal. Remove the residue with water jets if there are no contraindications. Ensure adequate ventilation of the place affected by the spillage. Check for any incompatibilities of container material in Section 7. Disposal of the contaminated material must be carried out in accordance with point 13.

6.4 References to other sections

Any information concerning personal protection and disposal is provided in sections 8 and 13.

7. Handling and storage

7.1 Precautions for safe handling

In dust ambient avoid contact lenses use and wear dust respirator. Maintain accurate ventilation in working areas. Use protective gloves in case of extended skin contact.

7.2 Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Store containers away from any incompatible materials.



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7.3 Specific end uses

No information available.

8. Exposure control/personal protection

8.1 Control parameters

Exposure limit values: Red synthetic iron oxide

TLV- TWA: 5 mg/ m³ (ACGIH)

8.2 Exposure controls

Observe the usual safety measures in handling chemicals.

HAND PROTECTION Recommended: gloves SKIN PROTECTION Protective clothes EYE PROTECTION

Protective glasses with side-shield RESPIRATORY PROTECTION

Recommended: dust- protection mask with filter (FFP2- FFP3).

ENVIRONMENTAL EXPOSURE CONTROLS.

Emissions from production processes must be checked for compliance with environmental protection legislation.

9. Physical and chemical properties.

9.1 Information on the basic physical and chemical properties.

Physical State : Powder Colour : Red Smell : None

Odour threshold : NA (not applicable)
pH : 5- 10 (sol. 10% at 20°C)
Melting or freezing point : NA (not available)

Initial boiling point : NA (not applicable) Boiling range : NA (not applicable) Flash point : NA (not available) : NA (not applicable) Evaporation rate Flammability of solids and gases : NA (not available) Lower flammability limit : NA (not available) : NA (not available) Upper flammability limit Lower explosivity limit : NA (not available) Upper explosivity limit : NA (not available) Vapour pressure : NA (not applicable) Vapour density : NA (not applicable)

Relative density ≈ 5

Solubility : Insoluble in water and organic solvents, soluble in acids

n-octanol/water partition coefficient

Self-ignition temperature

Decomposition temperature

Viscosity

Explosive properties

Oxidising properties

SNA (not available)

NA (not applicable)

NA (not applicable)

NA (not applicable)

NA (not applicable)

9.2 Other information

VOC (Dir. 1999/13/EC) : NA (not available)
VOC (volatile carbon) : NA (not available)

No further information available.



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10. Stability and reactivity

10.1 Reactivity

There are no particular hazards of reaction with other substances under normal conditions of use.

10.2 Chemical stability

The product is stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to be avoided

Avoid contact with acids and alkali. Avoid contact with organic solvent

10.5 Incompatible materials

Peroxides. Avoid contact with aluminium powder, hydrazine, ethylene oxide, cesium carbide.

10.6 Hazardous decomposition products

No information available.

11. Toxicological information

11.1 Information on toxicological effects

No information available.

Acute toxicity:

LD50: > 5000 mg/ Kg (oral, rat).

Sensitisation: NA Mutagenicity: NA Carcinogenicity: NA

INHALATION: There are no known cases of damage to health by inhalation.

SKIN CONTACT: There are no known cases of damage to the skin.

EYE CONTACT: NA INGESTION: NA

CHRONIC EFFECTS: No information available.

12. Ecological information

Use according to good working practices, avoiding discharging the product into the environment. Notify the competent authorities if the product has reached waterways or if it has contaminated the ground or vegetation.

12.1 Toxicity

LC50, 96h, Fish, mg/ I > 1000 (48 h).

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulation potential

No information available.

12.4 Mobility in the ground

The product is insoluble in water.

12.5 PBT and vPvB assessment results

Based on the available data, the product contains no PBT or vPvB substances in percentage exceeding 0.1%.

12.6 Other adverse effects

No information available.



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13. Disposal considerations

13.1 Waste treatment methods

Reuse, when possible. Product residues as is should be considered special non-hazardous waste. Disposal must be assigned to an authorised waste management company, in compliance with national and any local legislation. For solid residues, consider the possibility of disposal at an authorised landfill.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information.

The product is not considered hazardous pursuant to current provisions governing the transport of hazardous goods by road (ADR), by rail (RID), by sea (IMDG Code) and by air (IATA).

14.1. UN number.

Not applicable.

14.2. UN shipping name.

Not applicable.

14.3. Transport hazard classes.

Not applicable.

14.4. Packaging group.

Not applicable.

14.5. Environmental hazards.

Not applicable.

14.6. Special precautions for users.

Not applicable.

14.7. Bulk transport according to Annex II of MARPOL 73/78 and IBC code

Information not pertinent.

15. Regulatory information.

15.1 Specific health, safety and environmental regulations and legislation for the substance or preparation

Seveso category:

NONE

Restrictions relating to the product or contained substances pursuant to Annex XVII to Regulation (EC) 1907/2006:

NONE

Substances in Candidate List (REACH Art. 59):

NONE

Substances subject to authorisation (REACH Annex XIV):

NONE

Substances subject to export notification requirement Reg. (EC) 649/2012:

NONE

Substances subject to the Rotterdam Convention:

NONE

Substances subject to the Stockholm Convention:

NONE

Health Controls: Workers must be subjected to health monitoring carried out according to the provisions of Art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed as irrelevant, according to the provisions of Art. 224 paragraph 2.

15.2 Chemical safety assessment

Not applicable.

16. Other information.

LEGEND:



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ADR: European agreement on the transport of hazardous goods by road

CAS NUMBER: Chemical Abstract Service number

CE50: Concentration that affects 50% of the population subjected to test

CE NUMBER: Identification number in ESIS (European Inventory of Existing Substances)

CLP: Regulation (EC) 1272/2008

DNEL: Derived no effect level - EmS: Emergency Schedule

GHS: Global Harmonised System for the classification and labeling of chemicals

IATA DGR: Regulations for the carriage of dangerous goods of the International Air Transport Association

IC50: Concentration of immobilisation of 50% of the population subjected to test

IMDG: International maritime code for the transport of dangerous goods

IMO: International Maritime Organization

INDEX NUMBER: Identification number in Annex VI of the CLP

LC50: Lethal concentration 50%

LD50: Lethal dose 50%

OEL: Occupational exposure limit

PBT: Persistent, bioaccumulative and toxic according to REACH

PEC: Predictable environmental concentration

PEL: Predictable exposure level

PNEC: Predictable no effect concentration

REACH: Regulation (EC) 1907/2006

RID: Regulations for the international carriage of dangerous goods by train

TLV: Threshold limit value

TLV CEILING: Concentration that must not be exceeded at any time of the work exposure.

TWA STEL: Short-term exposure limit

TWA: Weighted average exposure limit

VOC: Volatile organic compound

vPvB: Very persistent and very bioaccumulative according to REACH

WGK: Aquatic hazard class (Germany).

GENERAL BIBLIOGRAPHY:

- 1. Regulation (EU) 1907/2006 of the European Parliament (REACH)
- 2. Regulation (EU) 1272/2008 of the European Parliament (CLP)
- 3. Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
- 6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
- 7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP) 8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
- 9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
- 10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)

Reg. EC 453/2010, as amended and supplemented.

Reg. EU 2015/830

The Merck Index. - 10th Edition

Handling Chemical Safety

INRS - Fiche Toxicologique (toxicological sheet)

Patty - Industrial Hygiene and Toxicology

N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

ECHA Agency Website

Note for the user: The information contained in this data sheet is based on the knowledge available to us at the date of the last version. The user must verify the suitability and completeness of the information in relation to the specific use of the product. This document must not be interpreted as a guarantee of any specific property of the product. Since use of the product does not fall under our direct control, it is the user's obligation, under its own responsibility, to comply with the laws and regulations in force regarding health and safety. No liability is accepted for improper use. Provide adequate training to personnel involved in the use of chemicals.

Changes compared to the previous revision: All.