

SAFETY DATA SHEET

IRON OXIDE BROWN POWDER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name IRON OXIDE BROWN POWDER
 Product No. SICOVIT® BROWN 70 E172
 Internal Id MSDS 34/HP

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

Identified uses Pigment for the colouration of: paper plastics cosmetics animal food pharmaceuticals

1.3. Details of the supplier of the safety data sheet

Supplier ROCKWOOD ITALIA SPA, DIV. SILO
 Via G. Reiss Romoli 44/12
 10148 Torino, Italy
 +39-0112280501
 +39-0112269275
 msds.silo@rpigments.com

1.4. Emergency telephone number

+39-0112280587

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Not classified.
Environment	Not classified.

Classification (1999/45/EEC)

Not classified.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health

Skin contact may cause irritation due to mechanical action on sensitive skin. Eye contact causes irritation due to mechanical action and secretion of tears. Inhalation causes coughing, sneezing and respiratory problems. Ingestion may cause stomach ache, vomiting and diarrhoea.

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008

No pictogram required.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

IRON OXIDE YELLOW	70-80%
CAS-No.: 51274-00-1	EC No.: 257-098-5
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.

IRON OXIDE BROWN POWDER

IRON OXIDE RED		20-30%
CAS-No.: 1309-37-1	EC No.: 215-168-2	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.	
IRON OXIDE BLACK		0-10%
CAS-No.: 1317-61-9	EC No.: 215-277-5	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Remove contaminated clothes.

Inhalation

Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

Ingestion

Drink plenty of water. Do not give victim anything to drink if he is unconscious. Get medical attention if any discomfort continues.

Skin contact

Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation persists after washing.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

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

Inhalation.

Inhalation causes coughing, sneezing and respiratory problems.

Ingestion

Ingestion may cause stomach ache, vomiting and diarrhoea.

Skin contact

Skin contact may cause irritation due to mechanical action on sensitive skin.

Eye contact

Eye contact causes irritation due to mechanical action and secretion of tears.

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

No specific first aid measures noted.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Specific hazards

The product is non-combustible. In case of fire, toxic gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Dispose material resulting from fire extinguishing according to local regulations.

Protective equipment for fire-fighters

Use air-supplied respirator during fire fighting.

SECTION 6: ACCIDENTAL RELEASE MEASURES

IRON OXIDE BROWN POWDER

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Avoid inhalation of dust. Wear dust mask if necessary.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Avoid dust formation. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Wear necessary protective equipment. Do not use compressed air for cleaning.

6.4. Reference to other sections

For personal protection, see section 8.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Use mechanical ventilation in case of handling which causes formation of dust. Observe occupational exposure limits and minimise the risk of inhalation of dust. Provide sufficient means of filtration of exhausted air.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry and cool place. No specific recommendations. Keep away from food, drink and animal feeding stuffs. Removal of the polyethylene film may cause electrostatic charge, therefore removal should NOT be carried out where this could be dangerous.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
IRON OXIDE RED	ACGIH		5 mg/m ³ resp.dust			

ACGIH = American Conference of Governmental Industrial Hygienists.

Ingredient Comments

Total Inhalable Dust 10mg/m³ - 8hr TWA. TLV ACGIH (2006)

8.2. Exposure controls

Respiratory equipment

Use respiratory equipment with particle filter, type P1.

Hand protection

PVC or rubber gloves are recommended.

Eye protection

Use eye protection.

Other Protection

Provide eyewash station.

Skin protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Environmental Exposure Controls

All machinery used handling the product in powder form (packing unit, blenders, dryers) have to be provided with sufficient exhaust ventilation and air filter systems to avoid contamination of working area and environment

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Powder, dust
Colour	Light brown.
Odour	Odourless.
Solubility	Insoluble in water Organic solvents. Disperses. Soluble in: Mineral acids (some).
Initial boiling point and boiling range	Not Applicable
Melting point (°C)	Not Applicable
Relative density	~ 4.4

IRON OXIDE BROWN POWDER

Bulk Density	~ 0.5 kg/l
Vapour pressure	Not Applicable
Evaporation rate	Not Applicable
pH-Value, Diluted Solution	6-8 @ 10%
Viscosity	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Flammability Limit - Lower(%)	Non-Flammable
Partition Coefficient (N-Octanol/Water)	Not Applicable
Comments	Dust explosion class: no classification

9.2. Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

No particular stability concerns.

10.3. Possibility of hazardous reactions

Not applicable.

10.4. Conditions to avoid

10.5. Incompatible materials

Materials To Avoid

Substances subject to catalytic decomposition caused by dust such as peroxides. Further avoid contact with aluminium dust, calcium hypochlorite, hydrazine, ethylene oxide, caesium carbide.

10.6. Hazardous decomposition products

No hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Acute Toxicity (Oral LD50)

> 5000 mg/kg Rat

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Acute Toxicity - Fish

LC50 48 hours > 1000 mg/l *Leuciscus idus* (Golden orfe)

12.2. Persistence and degradability

Degradability

The product is not expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient Not Applicable

12.4. Mobility in soil

Mobility:

The product is insoluble in water and will sediment in water systems.

12.5. Results of PBT and vPvB assessment

IRON OXIDE BROWN POWDER

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

Waste Class

Non Hazardous

SECTION 14: TRANSPORT INFORMATION

General The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

Not applicable

14.6. Special precautions for user

Not applicable.

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 Legislation

Directive 94/36/EC on dyes authorized for use in foods.

Regulation 2008/128/EC to lay down specific purity criteria for food dyes.

Directive 76/768/EC on cosmetic agents.

Directive 2009/35/EC on colouring matters which may be added to medicinal products.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP).

Commission Regulation (EC) 790/2009, 1st ATP of CLP.

Commission Regulation (EU) No 453/2010 on Safety Data Sheets.

Water hazard classification

nwg: not hazardous to water (Germany)

15.2. Chemical Safety Assessment

Not required as non-hazardous material

SECTION 16: OTHER INFORMATION

Issued By

HS&E Manager.

IRON OXIDE BROWN POWDER

Revision Date	06/04/2012
Revision	1
SDS No.	18633
Risk Phrases In Full	
NC	Not classified.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.