

## SAFETY DATA SHEET

### IRON OXIDE BLACK POWDER

#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	IRON OXIDE BLACK POWDER
REACH REGISTRATION NUMBER	01-2119457646-28-0015
PRODUCT NO.	SICOVIT® BLACK 85 E172
INTERNAL ID	MSDS 37/HP
APPLICATION	Pigment for the colouration of: paper plastics cosmetics animal food food pharmaceuticals
SUPPLIER	ROCKWOOD ITALIA SPA, DIV. SILO Via G. Reiss Romoli 44/12 10148 Torino, Italy +39-0112280501 +39-0112269275 msds.silo@rpigments.com
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#### 2 HAZARDS IDENTIFICATION

CLASSIFICATION (EC 1272/2008)

Physical	Self-heat. 2 - H252
Health	Not classified.
Environmental	Not classified.

LABEL IN ACCORDANCE WITH (EC) NO. 1272/2008



HAZARD STATEMENTS

H252	Self-heating in large quantities; may catch fire.
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PRECAUTIONARY STATEMENTS

P413a	Store at temperatures not exceeding 50°C/ 122°F
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SUPPLEMENTARY PRECAUTIONARY STATEMENTS

P235/410	Keep cool. Protect from sunlight.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P407	Maintain air gap between stacks/pallets.
P420	Store away from other materials.

PHYSICAL AND CHEMICAL HAZARDS

NOT CLASSIFIED Self-heating in packages up to 450 litres capacity.

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.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

IRON OXIDE BLACK	90-100 %
CAS-No.: 1317-61-9	EC No.: 215-277-5
CLASSIFICATION (EC 1272/2008) Self-heat. 2 - H252	CLASSIFICATION (67/548) -

# IRON OXIDE BLACK POWDER

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

## 4 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.

## 5 FIRE-FIGHTING MEASURES

### EXTINGUISHING MEDIA

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

### SPECIAL FIRE FIGHTING PROCEDURES

Dispose material resulting from fire extinguishing according to local regulations.

### SPECIFIC HAZARDS

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

### PROTECTIVE MEASURES IN FIRE

Use air-supplied respirator during fire fighting.

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

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

### ENVIRONMENTAL PRECAUTIONS

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

### SPILL CLEAN UP METHODS

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.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

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.

### STORAGE PRECAUTIONS

Store in tightly closed original container in a dry and cool place. Keep away from food, drink and animal feeding stuffs. Keep separate from substances subject to catalytic decomposition by dust, e.g. peroxides. Removal of the polyethylene film may cause electrostatic charge, therefore removal should NOT be carried out where this could be dangerous. Protect from temperatures above: 80°C

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### INGREDIENT COMMENTS

Total Inhalable Dust 10mg/m<sup>3</sup> - 8hr TWA.

TLV ACGIH (2006)

### 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.

**IRON OXIDE BLACK POWDER****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

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Powder, dust		
COLOUR	Black		
ODOUR	Odourless		
SOLUBILITY	Insoluble in water Organic solvents. Disperses. Soluble in: Mineral acids (some).		
BOILING POINT (°C)	Not Applicable	MELTING POINT (°C)	Not Applicable
RELATIVE DENSITY	~ 4.6	BULK DENSITY	~ 0.7 kg/l
VAPOUR PRESSURE	Not Applicable	EVAPORATION RATE	Not Applicable
pH-VALUE, DILUTED SOLUTION	6.5-9 @ 10%	VISCOSITY	Not Applicable
AUTO IGNITION TEMPERATURE (°C)	Not Applicable	FLAMMABILITY LIMIT - LOWER(%)	Non-Flammable
PARTITION COEFFICIENT (N-Octanol/Water)	Not Applicable		

**10 STABILITY AND REACTIVITY****STABILITY**

No particular stability concerns.

**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.

**HAZARDOUS DECOMPOSITION PRODUCTS**

No hazardous decomposition products.

**11 TOXICOLOGICAL INFORMATION**

TOXIC DOSE 1 - LD 50 > 5000 mg/kg (oral rat)

**12 ECOLOGICAL INFORMATION**

LC 50, 96 Hrs, FISH mg/l >1000 (48 h) Idus Idus dorata

**MOBILITY**

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

**BIOACCUMULATION**

No data available on bioaccumulation.

**DEGRADABILITY**

The product is not expected to be biodegradable.

**WATER HAZARD CLASSIFICATION**

nwg

**13 DISPOSAL CONSIDERATIONS****DISPOSAL METHODS**

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

**WASTE CLASS**

Non Hazardous

**14 TRANSPORT INFORMATION****GENERAL**

This product IS NOT REGULATED when in packages up to 450 litres capacity.

**PROPER SHIPPING NAME**

SELF-HEATING SOLID, INORGANIC, N.O.S. (Iron oxide black)

**IRON OXIDE BLACK POWDER**

UN NO. ROAD	3190	ADR CLASS NO.	4.2
ADR CLASS	Class 4.2: Substances liable to spontaneous combustion.	ADR PACK GROUP	III
TUNNEL RESTRICTION CODE	(E)	ADR LABEL NO.	4.2
HAZCHEM CODE	1Y	CEFIC TEC(R) NO.	42GS4-II+III
RID CLASS NO.	4.2	RID PACK GROUP	III
UN NO. SEA	3190	IMDG CLASS	4.2
IMDG PACK GR.	III	EMS	F-A, S-J
UN NO. AIR	3190	AIR CLASS	4.2
AIR PACK GR.	III		

**15 REGULATORY INFORMATION**

## EU DIRECTIVES

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 78/25/EC on colouring matter authorized for use in drugs.

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.

**16 OTHER INFORMATION**

## ISSUED BY

HS&E Manager.

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SDS NO. 18636

## HAZARD STATEMENTS IN FULL

H252 Self-heating in large quantities; may catch fire.

## 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 a 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.