

HYDROX

ACCORDING TO REGULATION (EC) NO. 1907/2006 (REACH), (EC) 2015/830, (EC) NO. 1272/2008 (CLP)

Trade Name: HYDROX**Date:** 02.10.2003**Revision Date:** 09.10.2025

SECTION 1

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Substance name	Pyrolusite, Manganese dioxide
Trade name	HYDROX
Index Nr.	025-001-00-3
EG-Nr.	215-202-6
CAS-No.	1313-13-9
REACH-Registration No.	Exempted Annex V

Article 2(7)(b) of the regulation 1907/2006 (REACH) provides that natural substances covered by Annex V are exempted from the same titles of the regulation.

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

Relevant identified uses	Water filtration
Uses advised against	not applicable

1.3. Details of the supplier of the safety data sheet

Supplier	SUKO Textielstraat 13 8790 Waregem, Belgium
E-mail	info@suko.com
Telephone	+32 (0)56 78 20 58

1.4. Emergency telephone number

Telephone	112
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SECTION 2

HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification of the substance or mixture	Acute toxicity, Category 4, Oral; H302 Acute toxicity, Category 4, Inhalation; H332
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2.2. Label elements

Label



Signal word	Warning
Hazard and precautionary statements	
H302	Harmful if swallowed
H332	Harmful if inhaled
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash skin and hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED Call a POISON CENTER/doctor if you feel unwell.
P304+P340	IF INHALED Remove person to fresh air and keep comfortable for breathing.

2.3. Other hazards

None known.

SECTION 3

COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substance

Purity, Synonyms, Stabilisers, Hazard impurities

Substance name	Pyrolusite, Manganese(IV)dioxide
CAS-Nr.	1313-13-9
Colour	brown-black
Form	granular

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Parameter	Proportion of weight
MnO ₂	>65
Fe ₂ O ₃	approx. 7
SiO ₂	approx. 4
Al ₂ O ₃	approx. 1

SECTION 4

FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation	In case of trouble in breathing, lead person into fresh air and consult a doctor if you feel unwell.
Skin contact	Wash off with soap and plenty of water.
Eye contact	Remove contact lenses. Rinse the eyes thoroughly with plenty of water for 10 - 15 minutes. Consult a doctor if irritation develops and persists.
Ingestion	Clean mouth with water and consult a doctor if you feel unwell.

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

Acute symptoms	Irritation of upper respiratory tract.
Delayed symptoms	Effect on central nervous system. Inflammation/ Damage of upper respiratory tract

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

Provide general supportive measures und treat symptomatically.

SECTION 5

FIREFIGHTING MEASURES

5.1. Extinguishing media

Carbon dioxide (CO₂), Water spray-jet or fire extinguishing foam.

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed

5.3. Advice for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

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SECTION 6

ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact and the formation of dust. Do not inhale the dust. In order to reduce dust formation sufficient ventilation is required. Wear protective clothing during clean-up. Avoid ignition sources.

6.2. Environmental precautions

Avoid discharge into stretches of water or into the canalization.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal. Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections

Information for safe handling	see section 7
Information for self protection	see section 8
Information for disposal	see section 13

SECTION 7

HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid dust formation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in original tightly closed plastic or steel container. When stored outdoors the material should be covered with a dark plastic foil. Provide for sufficient ventilation to reduce the existing dust of the air. Keep away from acids and oxidation products.

7.3. Specific end use(s)

not applicable

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SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Inhalable fraction	0.2 mg/m ³ (TRGS 900, 2017/164 EU)
Respirable (alveolar) fraction	0.02 mg/m ³ (TRGS 900) 0.05 mg/m ³ (2017/164 EU)
Biological exposure limit (Substance: Blood)	20 µg/l (TRGS 900)

8.2. Exposure controls

If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Personal protective equipment

Eye / face protection	Wear safety glasses with side shields
Hand protection	For prolonged or repeated contact use protective gloves. Suitable gloves can be recommended by the glove supplier.
Skin and Body protection	Wear suitable protective clothing.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Half mask with a particle filter P2 or P3 (EN 143).
Thermal hazards	Not applicable.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	brown-black coloured granules
Physical state	solid
Odour	odourless
Odour threshold	not applicable

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pH	inert, does not react with water
Melting point/freezing point	not applicable
Initial boiling point/boiling range	not applicable
Flash point	not applicable
Evaporation rate	not applicable
Ignition temperature	not applicable
Explosion limit, lower	not applicable
Explosion limit, upper	not applicable
Vapour pressure	not applicable
Vapour density	not applicable
Specific density	5,0 g/cm ³
Solubility	not soluble in water
Partition coefficient	
n-octano/water	not applicable
Auto-ignition temperature	not applicable
Decomposition temperature	535°C
Viscosity	not applicable

9.2. Other information

None.

SECTION 10

STABILITY AND REACTIVITY

10.1. Reactivity

The product is stable under recommended conditions of use, storage and transport.

10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

Reacts with hydrochloric acid to chlorine gas.

10.4. Conditions to avoid

Avoid contact with oxidants, aluminium powder, sulphur and chlorines.

10.5. Incompatible materials

Strong acids and strong oxidizing agents.

10.6. Hazardous decomposition products

Oxygene, vapours of metallic oxide.

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SECTION 11

TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity	LD 50 Oral: > 3478 mg/kg, Species: Rat Source: RTECS LD 50: 422 mg/kg, Species: Mouse, subcutaneously Source: RTECS LDLo: 45 mg/kg, Species: Rabbit, intravenously Source: RTECS
Skin corrosion/irritation	no negative effects known
Eye damage/irritation	no negative effects known
Sensitisation to the respiratory tract/skin	no negative effects known
Germ cell mutagenicity	no negative effects known
Carcinogenicity	no negative effects known
Reproductive toxicity	no negative effects known
Specific target organ toxicity - single exposure	no negative effects known
Specific target organ toxicity - repeated exposure	no negative effects known
Aspiration hazard	no negative effects known

11.2. Information on other hazards

none

SECTION 12

ECOLOGICAL INFORMATION

12.1. Toxicit

The product is not classified as environmental hazardous.

12.2. Persistence and degradability

no data available

12.3. Bioaccumulative potential

no data available

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assesment

no data available

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none known

12.7. Other adverse effects

none known

SECTION 13

DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product / Packaging disposal

Waste codes / waste designations according to EWC / AVV 190902

Packaging Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14

TRANSPORT INFORMATION

NOT CLASSIFIED AS DANGEROUS GOODS

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

Not applicable.

14.6. Special precautions for user

Not applicable.

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

Not applicable.

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SECTION 15 REGULATORY INFORMATION

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

EU regulations	
Regulation (EU) No. 2024/590	not applicable
Regulation (EU) No. 2019/1021	not applicable
Regulation (EU) No. 649/2012	not applicable
Regulation (EU) No. 648/2004	not applicable
Restrictions according to Title VIII of Regulation (EU) No. 1907/2006	not applicable

15.2. Chemical safety assessment

None.

SECTION 16 OTHER INFORMATION

None.