

SAFETY DATA SHEET

Transparent Oxide Brown - 224

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Transparent Oxide Brown

Product number 224

REACH registration number 01-2119457614-35-0051

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

Identified uses Industrial colour

1.3. Details of the supplier of the safety data sheet

Supplier Michael Harding Art Formulas LTD,
Unit K Springvale Ind Est, Cwmbran,
Torfaen NP44 5BE
+44(0)1633484700

accounts@michaelharding.co.uk

1.4. Emergency telephone number

Emergency telephone + 44(0)1633484700 between 08:30-16:30 Mon-Fri

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Human health May be slightly irritating to eyes. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. May be slightly irritating to skin.

Environmental The product is not expected to be hazardous to the environment.

2.2. Label elements

Hazard statements NC Not Classified

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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CAS number: 1309-37-1

EC number: 215-168-2

REACH registration number: 01-2119457614-35-0051

Classification

Not Classified

The full text for all hazard statements is displayed in Section 16.

Composition comments No specific significant hazards

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	Do not induce vomiting. Get medical attention if any discomfort continues.
Skin contact	Wash skin thoroughly with soap and water.
Eye contact	Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists after washing.

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

Notes for the doctor No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

Additional information:

5.2. Special hazards arising from the substance or mixture

Specific hazards The product is non-combustible. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³.

5.3. Advice for firefighters

Protective actions during firefighting Dispose of material resulting from fire extinguishing according to local regulations.

Special protective equipment for firefighters Use air-supplied respirator, gloves and protective goggles.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Avoid generation and spreading of dust. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not use compressed air for cleaning.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Use mechanical ventilation if there is a risk of handling causing formation of airborne dust. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Observe any occupational exposure limits for the product or ingredients. Avoid inhalation of dust. Provide sufficient means of filtration of exhausted air.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry and cool place. 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)

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

Ingredient comments Allgemeiner Staubgrenzwert TLV-TWA 5 mg/m³ resp dust (ACGIH 2006)

Transparent Oxide Brown - 224 (CAS: 1309-37-1)

Ingredient comments TLV-TWA 5 mg/m³ resp dust (ACGIH 2006)

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Provide eyewash station.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Particulate filter, type P2.

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SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Dusty powder.
Colour	Red.
Odour	Odourless.
pH	pH (concentrated solution): 7-9
Flash point	N/A°C
Relative density	3-5 @ °C
Solubility(ies)	Insoluble in water.
Partition coefficient	Not applicable.

9.2. Other information

Particle size	<100nm
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not applicable.
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10.4. Conditions to avoid

Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
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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.
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10.6. Hazardous decomposition products

Hazardous decomposition products	No known hazardous decomposition products.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	5,000.0
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Species	Rat
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Inhalation	Dust in high concentrations may irritate the respiratory system.
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Route of exposure	Inhalation
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Target organs Respiratory system, lungs

SECTION 12: Ecological Information

Ecotoxicity The product is not expected to be hazardous to the environment.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish LC50, 48 hours: > 1000 mg/l, *Leuciscus idus* (Golden orfe)

12.2. Persistence and degradability

Persistence and 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

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Waste class Non Hazardous

SECTION 14: Transport information

General The product is not covered by international regulations 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)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

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14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

National regulations

Health and Safety at Work etc. Act 1974 (as amended).

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU legislation

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) (as amended).

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.

15.2. Chemical safety assessment

Not required as non-hazardous material

SECTION 16: Other information

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.