

SAFETY DATA SHEET Transparent Oxide Yellow - 219

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1. Product identifier	
Product name	Transparent Oxide Yellow
Product number	219
REACH registration number	01-2119457554-33-0015
1.2. Relevant identified uses of	of the substance or mixture and uses advised against
Identified uses	Industrial colour
Uses advised against	No specific uses advised against are identified.
1.3. Details of the supplier of t	he safety data sheet
Supplier	Michael Harding Art Formulas LTD
	Springvale Ind Est, Cwmbran,
	Torfaen, NP44 5BE
	+44(0)1633484700
	accounts@michaelharding.co.uk
1.4. Emergency telephone number	
IT IT Emergency telephone na	
Emergency telephone	+ 44(0)1633484700 between 08:30 - 16:30 Mon-Fri
	+ 44(0)1633484700 between 08:30 - 16:30 Mon-Fri
Emergency telephone	+ 44(0)1633484700 between 08:30 - 16:30 Mon-Fri ation
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Emergency telephone SECTION 2: Hazards identific 2.1. Classification of the subst Classification (EC 1272/2008) Physical hazards Health hazards	+ 44(0)1633484700 between 08:30 - 16:30 Mon-Fri ation cance or mixture Not Classified Not Classified
Emergency telephone SECTION 2: Hazards identific 2.1. Classification of the subst Classification (EC 1272/2008) Physical hazards Health hazards	+ 44(0)1633484700 between 08:30 - 16:30 Mon-Fri ation cance or mixture Not Classified Not Classified
Emergency telephone SECTION 2: Hazards identific 2.1. Classification of the subst Classification (EC 1272/2008) Physical hazards Health hazards Environmental hazards	+ 44(0)1633484700 between 08:30 - 16:30 Mon-Fri ation ance or mixture Not Classified Not Classified Not Classified May be slightly irritating to eyes. Frequent inhalation of dust over a long period of time
Emergency telephone SECTION 2: Hazards identific 2.1. Classification of the subst Classification (EC 1272/2008) Physical hazards Health hazards Environmental hazards Human health	+ 44(0)1633484700 between 08:30 - 16:30 Mon-Fri ation ance or mixture Not Classified Not Classified Not Classified 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.
Emergency telephone SECTION 2: Hazards identific 2.1. Classification of the subst Classification (EC 1272/2008) Physical hazards Health hazards Environmental hazards Human health Environmental	+ 44(0)1633484700 between 08:30 - 16:30 Mon-Fri ation ance or mixture Not Classified Not Classified Not Classified 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.
Emergency telephone SECTION 2: Hazards identific 2.1. Classification of the subst Classification (EC 1272/2008) Physical hazards Health hazards Environmental hazards Human health Environmental 2.2. Label elements	+ 44(0)1633484700 between 08:30 - 16:30 Mon-Fri ation ance or mixture Not Classified Not Classified Not Classified 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. The product is not expected to be hazardous to the environment.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



CAS number: 51274-00-1	EC number: 257-098-5	REACH registration number: 01-2119457554-33-0015
Classification Not Classified		
The full text for all hazard state	ements is displayed in Section 16.	
Composition comments	No specific significant hazards	
SECTION 4: First aid measure	98	
4.1. Description of first aid mea	asures	
General information	Get medical attention if any discomfort contin personnel.	nues. Show this Safety Data Sheet to the medical
Inhalation	Move affected person to fresh air and keep v breathing. Maintain an open airway. Loosen	warm and at rest in a position comfortable for tight clothing such as collar, tie or belt.
Ingestion	or milk to drink. Stop if the affected person fe induce vomiting unless under the direction of should be kept low so that vomit does not en	any dentures. Give a few small glasses of water eels sick as vomiting may be dangerous. Do not f medical personnel. If vomiting occurs, the head ater the lungs. Never give anything by mouth to an ay. Loosen tight clothing such as collar, tie or belt.
Skin contact	Remove affected person from source of cont water.	tamination. Rinse immediately with plenty of
Eye contact	Rinse immediately with plenty of water. Rem apart. Continue to rinse for at least 10 minute	ove any contact lenses and open eyelids wide es.
Protection of first aiders	First aid personnel should wear appropriate	protective equipment during any rescue.
4.2. Most important symptoms	and effects, both acute and delayed	
General information	See Section 11 for additional information on described will vary dependent on the concent	health hazards. The severity of the symptoms tration and the length of exposure.
Inhalation	No specific symptoms known.	
Ingestion	May cause discomfort if swallowed. May cau	ise stomach pain or vomiting.
Skin contact	Prolonged contact may cause dryness of the	e skin.
Eye contact	No specific symptoms known. May be slightly	y irritating to eyes.
4.3. Indication of any immedia	te medical attention and special treatment nee	ded
Notes for the doctor	Treat symptomatically.	
Specific treatments	No special treatment required.	
SECTION 5: Firefighting meas	sures	
5.1. Extinguishing media		
Suitable extinguishing media	The product is not flammable. Extinguish wit powder or water fog. Use fire-extinguishing r	h alcohol-resistant foam, carbon dioxide, dry nedia suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as th	his will spread the fire.
Additional information:		



Specific hazards None known. Hazardous combustion Thermal decomposition or combustion products may include the following substances: products Harmful gases or vapours. 5.3. Advice for firefighters Protective actions during Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with firefighting water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Special protective equipment Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective for firefighters clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents. **SECTION 6: Accidental release measures** 6.1. Personal precautions, protective equipment and emergency procedures Personal precautions No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. 6.2. Environmental precautions **Environmental precautions** Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air). 6.3. Methods and material for containment and cleaning up Methods for cleaning up Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Reuse or recycle products wherever possible. Approach the spillage from upwind. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. 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 Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Advice on general Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash occupational hygiene contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace. 7.2. Conditions for safe storage, including any incompatibilities Storage precautions Store in accordance with local regulations. Storage class Unspecified storage. 7.3. Specific end use(s)

5.2. Special hazards arising from the substance or mixture



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	Total Inhalable Dust 10mg/m3 - 8hr TWA. Total respirable Dust 4mg/m3 - 8hr TWA TLV ACGIH (2006)
8.2. Exposure controls	
Protective equipment	
Appropriate engineering controls	Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. No specific eye protection required during normal use.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
Environmental exposure controls	Not regarded as dangerous for the environment.
SECTION 9: Physical and C	hemical Properties
9.1. Information on basic physical and chemical properties	

Appearance	Dusty powder.
Colour	Yellow.
Odour	Odourless.
рН	pH (concentrated solution): 7-9
Flash point	N/A°C
Relative density	3-5 @ °C



Solubility(ies)	Insoluble in water.
9.2. Other information	
Particle size	<100nm
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
10.2. Chemical stability	
Stability	Temperatures of ca. 120°C and above, result in dehydroxlyation to Fe2O3
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	No potentially hazardous reactions known.
10.4. Conditions to avoid	
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
10.5. Incompatible materials	
Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
10.6. Hazardous decomposition	on products
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.
SECTION 11: Toxicological int	formation
11.1. Information on toxicologi	cal effects
Toxicological effects	Not regarded as a health hazard under current legislation.
<u>Acute toxicity - oral</u> Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
Species	Rat
Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - dermal Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - inhalation Notes (inhalation LC ₅₀)	Based on available data the classification criteria are not met.
Skin corrosion/irritation Animal data	Based on available data the classification criteria are not met.
Serious eye damage/irritation Serious eye damage/irritation	Based on available data the classification criteria are not met.
Respiratory sensitisation Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation Skin sensitisation	Based on available data the classification criteria are not met.
	Third Party Information supplied to Michael Harding Art Formulas Ltd 5



Germ cell mutagenicity	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
Specific target organ toxicity -	single exposure
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity -	repeated exposure
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard Aspiration hazard	Not relevant. Solid.
General information	No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	No specific symptoms known. May be slightly irritating to eyes.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.
SECTION 12: Ecological Inform	mation
Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
12.1. Toxicity	
Toxicity	Based on available data the classification criteria are not met.
Acute aquatic toxicity Acute toxicity - fish	LC50, 48 hours: > 1000 mg/l, Leuciscus idus (Golden orfe)
12.2. Persistence and degrada	ability
	The degradability of the product is not known.
12.3. Bioaccumulative potential	
Bioaccumulative potential	– No data available on bioaccumulation.
12.4. Mobility in soil	
Mobility	No data available.
12.5. Results of PBT and vPvB	3 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 consid	derations
13.1. Waste treatment method	ls
General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.
Disposal methods	Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.
Waste class	Non Hazardous
SECTION 14: Transport inform	nation
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 nam	
Not applicable.	
14.3. Transport hazard class(es)
No transport warning sign req	uired.
14.4. Packing group	
Not applicable.	
14.5. Environmental hazards	
Environmentally hazardous substance/marine pollutant No.	
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 info	rmation
15.1. Safety, health and envir	onmental 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). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
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). Commission Regulation (EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification No.

SECTION 16: Other information

Training advice

Read and follow manufacturer's recommendations. Only trained personnel should use this material.

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.