

SAFETY DATA SHEET

Acridine orange (C.I. 46005)

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product name	Acridine orange (C.I. 46005)	
Product number	25012998	
CAS number	10127-02-3	
EC number	233-353-6	
1.2. Relevant identified uses of	of the substance or mixture and uses advised against	
Identified uses	For research purposes only.	
Uses advised against	No specific uses advised against are identified.	
1.3. Details of the supplier of t	he safety data sheet	
Supplier	Molekula Ltd. Lingfield Way, Darlington, DL1 4XX, United Kingdom +44 (0) 3302000333 info@molekula.com	
1.4. Emergency telephone nu	mber	
+44 (0) 1380 725952		
SECTION 2: Hazards identific	ation	
2.1. Classification of the subs	ance or mixture	
Classification (EC 1272/2008) Physical hazards	Not Classified	
Health hazards	Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Muta. 2 - H341	
Environmental hazards	Not Classified	
2.2. Label elements	Not oldssilled	
EC number	233-353-6	
EC number Hazard pictograms	233-353-6 Warning	

Hazard statements	H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. H341 Suspected of causing genetic defects.
Precautionary statements	 P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust. P264 Wash contaminated skin thoroughly after handling. 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 CENTRE/doctor if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313 IF exposed or concerned: Get medical advice/ attention. P302+P364 Take off contaminated clothing and wash it before reuse. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Product name	Acridine orange (C.I. 46005)	
CAS number	10127-02-3	
EC number	233-353-6	
Chemical formula	C17H20CIN3 ^{.1} / ₂ ZnCl2	
SECTION 4: First aid measur	res	
4.1. Description of first aid me	easures	
General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.	
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place.	
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention if symptoms are severe or persist.	
Skin contact	It is important to remove the substance from the skin immediately. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention.	
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.	
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	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Headache. Exhaustion and weakness.
Ingestion	May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.
Skin contact	May cause discomfort.
Eye contact	May be slightly irritating to eyes.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising fr	om the substance or mixture
Specific hazards	This product is toxic.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of nitrogen. Hydrogen chloride (HCI).
5.3. Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with 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. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective 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	e measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid inhalation of dust. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes.
6.2. Environmental precaution	<u>s</u>
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the

aquatic environment.

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. Provide adequate ventilation. 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. For waste disposal, see Section 13.
6.4. Reference to other section	
Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.
SECTION 7: Handling and stor	age
7.1. Precautions for safe hand	ing
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. Suspected of causing genetic defects. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage	e, including any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10). Store locked up. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.
	Hygroscopic. Handle and store under inert gas
Storage class	Chemical storage.
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	s/Personal protection
8.1. Control parameters	
STEL	
TWA	

8.2. Exposure controls

Protective equipment





Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection	Wear protective gloves. 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	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

	bai and onernioal properties
Appearance	Powder.
Colour	Deep Yellow. Red. Brown.
Odour	Odourless.
Odour threshold	No information available.
рН	No information available.
Melting point	165°C/329°F
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	No information available.
Solubility(ies)	Soluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.

9.2. Other information

Molecular weight 369.96 SECTION 10: Stability and reactivity 10.1. Reactivity Reactivity See the other subsections of this section for further details. 10.2. Chemical stability Stability Stable under the prescribed storage conditions. Hygroscopic. 10.3. Possibility of hazardous reactions Possibility of hazardous No potentially hazardous reactions known. reactions 10.4. Conditions to avoid Conditions to avoid Sensitive to Moisture 10.5. Incompatible materials Strong oxidising agents. Materials to avoid 10.6. Hazardous decomposition products Hazardous decomposition Does not decompose when used and stored as recommended. products Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of nitrogen. Hydrogen chloride (HCI).

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity - oral	
Summary	Harmful if swallowed.
ATE oral (mg/kg)	500.0
Acute toxicity - dermal	
Summary	Harmful in contact with skin.
ATE dermal (mg/kg)	1,100.0
Acute toxicity - inhalation	
Summary	Harmful if inhaled.
ATE inhalation (dusts/mists mg/l)	1.5
Skin corrosion/irritation	
Summary	Based on available data the classification criteria are not met.
Serious eye damage/irritation	
Summary	Based on available data the classification criteria are not met.
Respiratory sensitisation Summary	Based on available data the classification criteria are not met.

Skin sensitisation	
Summary	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Summary	Suspected of causing genetic defects.
Carcinogenicity	
Summary	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity	
Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity - s	
Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity - r	
Summary	Based on available data the classification criteria are not met.
Aspiration hazard	Net relevent Orlid
Summary	Not relevant. Solid.
General information	May cause genetic defects. The severity of the symptoms described will vary dependent on
	the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Headache. Exhaustion and weakness.
Ingestion	May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.
Skin contact	May cause discomfort.
Eye contact	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	nation
Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
12.1. Toxicity	
Acute aquatic toxicity	
Summary	Based on available data the classification criteria are not met.
Chronic aquatic toxicity	
Summary	Based on available data the classification criteria are not met.
12.2. Persistence and degrada	bility
Persistence and degradability	The degradability of the product is not known.
12.3. Bioaccumulative potentia	<u>I</u>
Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	No information available.
12.4. Mobility in soil	

Modini works No data works 12.5. Results of PBT and vPvB assessment 12.6. Other adverse effects None known. SECTION 13: Disposal considerations 13.1. Waste treatment methods General information The generation of waste should be minimised or avoided wherever possible. Reuse or recycle or way. When handling waste, the safety precautions applying to handling of the product should be taken when handling gengtie containers that have not been theroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous. Disposal methods Do not empty into drains. Dispose of surplus groducts and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work, clothes and contaminated cleaning materials should be collected in designated containers, licensed waste disposal contractor. Waste, residues, empty containers, discarded work, clothes and contaminated cleaning materials should be collected in designated containers, interastore. SECTION 14: Transport information General The product is not covered by international regulations on the transport of dangerous goods (IMOG, IATA, ADR/RID). 11.1. UN number Not applicable. Not applicable. IA1. Practing group 14.1 Packing group Iternsport information participations 14.2 policable. Iternsport in bulk according to Annex II of MARPOL and the IBC Code 14.3 Fransport in bulk			
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	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 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 2015/830 of 28 May 2015. 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.

SECTION 16: Other information		
Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.	
	 IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC₅₀: Lethal Concentration to 50 % of a test population. LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose). EC₅₀: 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative. 	
Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Muta. = Germ cell mutagenicity	
Classification procedures according to Regulation (EC) 1272/2008	Acute Tox. 4 - H312: Acute Tox. 4 - H332: Acute Tox. 4 - H302: Muta. 2 - H341: : Expert judgement.	
Training advice	Only trained personnel should use this material.	
Revision date	20/12/2021	
Revision	1	
SDS number	570	
Hazard statements in full	H302 Harmful if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled. H341 Suspected of causing genetic defects.	

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.