

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 04/12/2021 Supersedes: 05/16/2002 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Mixture	
Trade name	: 2% Acridine Orange, Ready-to-Use	
Product code	: 24603	
Formula	: C17H19N3.CIH	
1.2. Recommended use and restrictions o		
Recommended use	: Use as laboratory reagent, Manufacture of substances	
1.3. Supplier		
Supplier Polysciences 400 Valley Road Warrington, PA 18976 - United States T +1 215 343 6484 - F +1 215 343 0214 info@polysciences.com - www.polysciences.com	1	
1.4. Emergency telephone number		
Emergency number	: 24-hour emergency phone number ChemTel 1-800-255-3924	
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or mix	ture	
GHS US classification		
Acute toxicity (inhalation) Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2B Germ cell mutagenicity Category 2	Harmful if inhaled Causes skin irritation Causes eye irritation Suspected of causing genetic defects	
2.2. GHS Label elements, including precau	itionary statements	
GHS US labeling		
Hazard pictograms (GHS US)		
Signal word (GHS US)	: Warning	
Hazard statements (GHS US)	: Causes skin irritation Causes eye irritation Harmful if inhaled Suspected of causing genetic defects	
Precautionary statements (GHS US)	 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. 	
2.3. Other hazards which do not result in a	classification	
No additional information available		
2.4. Unknown acute toxicity (GHS US)		
Not applicable		
SECTION 3: Composition/Information	on ingredients	
3.1. Substances		
Not applicable		
3.2. Mixtures		

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Name	Product identifier	%	GHS US classification
Acridine orange, C.I. 46005, very high purity	(CAS-No.) 65-61-2	0 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Muta. 2, H341

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effect	ts (acute and delayed)
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Mild eye irritation.
4.3. Immediate medical attention and sp	ecial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguish	ling media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the ch	iemical
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Special protective equipment and p	recautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing dust/fume/gas/mist/vapors/spray.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment. Notify authorit	ies if product enters sewers or public waters.
6.3. Methods and material for containme	ent and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includin	g any incompatibilities

Storage conditions

: Store at 4 deg. C. Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1.	Control parameters	
2% A	Acridine Orange, Ready-to-Use	
No a	No additional information available	
Acrie	Acridine orange, C.I. 46005, very high purity (65-61-2)	
No a	No additional information available	

8.2. **Appropriate engineering controls**

Appropriate engineering controls Environmental exposure controls : Ensure good ventilation of the work station. : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: ORANGE LIQUID.	
Color	: Mixture contains one or more component(s) which have the following colour(s): dark orange	
Odor	: Mixture contains one or more component(s) which have the following odour:	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: no data	
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Freezing point	: No data available
Boiling point	: no data
Flash point	: no data
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: no data
Relative vapor density at 20°C	: no data
Relative density	: No data available
Molecular mass	: 301.85
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity			
10.1. Reactivity	. Reactivity		
The product is non-reactive under	normal conditions of use, storage and transport.		
10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardou	s reactions		
No dangerous reactions known une	der normal conditions of use.		
10.4. Conditions to avoid			
None under recommended storage	e and handling conditions (see section 7).		
10.5. Incompatible materials			
No additional information available			
10.6. Hazardous decomposit	10.6. Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.			
SECTION 11: Toxicologica	al information		
11.1. Information on toxicolo	ogical effects		
Acute toxicity (oral)	: Not classified		
Acute toxicity (dermal) : Not classified			
Acute toxicity (inhalation) : Harmful if inhaled.			
ATE US (gases)	4500 ppmV/4h		
ATE US (vapors)	11 mg/l/4h		
ATE US (dust, mist) 1.5 mg/l/4h			
.			

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

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STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Mild eye irritation.

SECTION 12: Ecological information			
12.1.	Toxicity		
Ecology - general		: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	
12.2.	Persistence and degradability		
No addi	No additional information available		
12.3.	Bioaccumulative potential		
No addi	No additional information available		
12.4.	Mobility in soil		
No additional information available			
12.5.	Other adverse effects		
No addi	No additional information available		

SECTION 13: Disposal considerations	3
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Not applicable	
Transportation of Dangerous Goods	
Not applicable	
Transport by sea	
Not applicable	
Air transport	
Not applicable	
SECTION 15: Regulatory information	
15.1. US Federal regulations	

Acridine orange, C.I. 46005, very high purity (65-61-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Acridine orange, C.I. 46005, very high purity (65-61-2)
Listed on the Canadian DSL (Domestic Substances List)

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EU-Regulations

National regulations No additional information available

15.3. US State regulations

SECTION 16: Other information

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: 1 Slight Hazard - Irritation or minor reversible injury possible
 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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