

Material Safety Data Sheet

according to EC-Regulation No. 1272/2008

updated: 02/2016

Version: 1.0

Section I - Product and Company Information

Product Name	Acridine Orange (AO) Solution
Product Number	PK-CA707-40039
Product Classification	Cell Biology Reagents
Company and Contact Information	PromoCell GmbH Sickingenstrasse 63/65 69126 Heidelberg Germany Phone : +49 6221 649 34 0 E-mail : info@promokine.info

Section II - Hazard Information

Product Name/ Chemical Name	CAS Number	EC-No.	Weight %	Classification according to regulation (EC)No1278/2008
Acridine Orange	65-61-2	200-614-0	<10 %	--
Water	7732-18-5	-	<99% (Acridine Orange)	--

Section III - Formulation and Ingredients Information

Component	Description	Volume	Safety Information
Acridine Orange	10mg/ml in water	10 ml	See below

Acridine Orange

Classification according to Regulation (EC) No 1272/2008[CLP]: none

Labelling according to Regulation (EC) No 1272/2008[CLP]

Pictogram: none

Signal word: none

Hazard statement(s): none

Precautionary statement(s): none

HMIS Classification

Health hazard: 0

Flammability: 0

Physical hazards: 0

NFPA Rating

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

Section IV - First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section V – Fire-Fighting Measures

Suitable extinguishing media: carbon dioxide, dry chemical extinguishers, foam extinguishers or water.

Special protective equipment for firefighters: Wear self contained breathing apparatus for firefighting if necessary.

Section VI - Accidental Release Measures

Personal precautions: Avoid breathing vapors, mist or gas. Remove all sources of ignition.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for cleaning up: Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

Section VII - Handling and Storage

Precautions for safe handling: Avoid inhalation of vapor or mist. Avoid direct contact with substance.

Conditions for safe storage:

Keep container tightly closed in a dry and well-ventilated place.

Store at 4 °C.

Section VIII - Personal Protection and Exposure Control Information

Components	CAS Number	Limit value	Amount	Country
Acridine Orange	--	No information available		

Personal protective equipment

Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section IX - Physical and Chemical Properties

Property	Acridine Orange
Appearance:	Liquid
Odor:	No data available
Odor Threshold:	No data available
pH:	No data available
Melting Point/ Freezing Point:	No data available
Boiling Point:	No data available
Flash Point:	No data available
Evaporate rate:	No data available
Flammability:	No data available
Explosive Limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available

Solubility:	High in Water
Partition coefficient: n-octanol/water	No data available
Auto-Ignition Temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive Properties	No data available
Oxidising Properties:	No data available

Section X - Chemical Stability and Reactivity

Property	Acridine Orange
Chemical Stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	no data available
Conditions to Avoid:	Heat, flames and sparks
Materials to Avoid:	no data available
Hazardous decomposition products:	Under fire conditions: Carbon oxides Other: no data available

Section XI - Toxicological Data

Acridine Orange

Acute toxicity

Oral LD50: None

Inhalation LC50: None

Dermal LD50: None

Other information on acute toxicity: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity – single exposure (Globally Harmonized System): no data available

Specific target organ toxicity – repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential health effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Additional Information: RTECS: None

Section XII - Ecological Information

Acridine Orange:

Persistence and degradability: no information available

Toxicity: no information available
Mobility in soil: no information available
PBT and vPvB assessment: no information available
Other adverse effects: no information available

Section XIII - Disposal

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

Section XIV - Transport Information

Acridine Orange:
DOT (US), IMDG, IATA: not dangerous good during transportation

Section XV - Classification and Regulatory Information

Us Toxic Substances Control Act (TSCA): Not listed
SARA 302: No chemicals were found.
SARA 313: No chemicals were found.
SARA 311/312 Hazards: Acridine Orange: Chronic Health Hazard

EU Regulations: none

Section XVI - Other Information / Disclaimer

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. PromoCell GmbH shall not be held liable for any damage resulting from handling or contact with the above product.

FOR IN VITRO RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC PROCEDURES.

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