SAFETY DATA SHEET
ACRIDINE ORANGE STAIN

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

1.1. Product identifier
Product name  ACRIDINE ORANGE STAIN

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses  For research use only.

1.3. Details of the supplier of the safety data sheet
Supplier  Web: www.bio-rad-antibodies.com
Bio-Rad
Endeavour House
Langford Business Park
Kidlington
Oxford
OX5 1GE
Tel. +44 (0)1865 852700
antibody_safetydatasheets@bio-rad.com

Contact person  Technical Services Manager

1.4. Emergency telephone number
Emergency telephone  Tel. +44 (0) 1865 852700 (9.00 a.m. - 5.00 p.m. 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

2.2. Label elements
Hazard statements  NC Not Classified

2.3. Other hazards
No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Composition comments  No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

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.
ACRIDINE ORANGE STAIN

Ingestion
Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

Skin contact
Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact
Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation
May cause cause coughing or mild irritation.

Ingestion
May cause discomfort if swallowed.

Skin contact
Prolonged skin contact may cause redness and irritation.

Eye contact
May cause temporary eye irritation.

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
The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture
Specific hazards
Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. Oxides of carbon. Oxides of nitrogen.

Hazardous combustion products
Does not decompose when used and stored as recommended.

5.3. Advice for firefighters
Protective actions during firefighting
No specific firefighting precautions known.

Special protective equipment for firefighters
Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions
Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

6.2. Environmental precautions
Environmental precautions
Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up
Absorb spillage with non-combustible, absorbent material. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections
Reference to other sections
Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
ACRIDINE ORANGE STAIN

Usage precautions
Avoid spilling. Avoid contact with skin and eyes. 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Keep only in the original container. Store at specified temperature. Refer to product label.

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

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate ventilation.

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates
eye contact is possible. The following protection should be worn: Chemical splash goggles or
face shield.

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 any possibility of skin contact. Wear apron or protective
clothing in case of contact.

Hygiene measures
Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes
contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat,
drink or smoke.

Respiratory protection
No specific recommendations.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Solid or liquid (may vary).

Colour

Odour
No characteristic odour.

pH
pH (concentrated solution): 4.5 - 5.5

Melting point
Not determined.

Initial boiling point and range
<100 @°C @ 760 mm Hg

Flash point
Not applicable.

Evaporation rate
Not determined.

Upper/lower flammability or explosive limits
Not applicable.

Vapour pressure
Not determined.
ACRIDINE ORANGE STAIN

Vapour density Not determined.
Relative density Not determined.
Solubility(ies) Soluble in water.
Partition coefficient Not determined.
Auto-ignition temperature Not determined.
Decomposition Temperature Not determined.
Viscosity Not determined.
Explosive properties Not determined.
Oxidising properties Not determined.

9.2. Other information
Other information None.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity No data available.

10.2. Chemical stability
Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions Will not polymerise.

10.4. Conditions to avoid
Conditions to avoid The substance is hygroscopic and will absorb water by contact with the moisture in the air. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials
Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological effects No information available.
Acute toxicity - oral Notes (oral LD₅₀) Not determined.
Skin corrosion/irritation Human skin model test Not determined.
Extreme pH 7.2
Serious eye damage/irritation Not determined.

Germ cell mutagenicity
ACRIDINE ORANGE STAIN

Genotoxicity - in vitro  Not determined.
Genotoxicity - in vivo  7.2: Toxicological studies are not yet available.
Carcinogenicity  
Carcinogenicity  Not determined.
Reproductive toxicity  
Reproductive toxicity - fertility  Not determined.
Specific target organ toxicity - single exposure  
STOT - single exposure  Not determined.
Specific target organ toxicity - repeated exposure  
STOT - repeated exposure  Not determined.
Aspiration hazard  
Aspiration hazard  Not determined.

General information  Knowledge about health hazard is incomplete. Laboratory experiments have shown mutagenic effects.
Inhalation  Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
Ingestion  May cause discomfort if swallowed.
Skin contact  Liquid may irritate skin.
Eye contact  Vapour or spray in the eyes may cause irritation and smarting.
Acute and chronic health hazards  Because of the product's quantity and composition, the health hazard is regarded as low.
Route of exposure  Ingestion. Skin and/or eye contact

SECTION 12: Ecological Information

Ecotoxicity  There are no data on the ecotoxicity of this product.
12.1. Toxicity  
Acute aquatic toxicity  
Acute toxicity - fish  Not determined.
12.2. Persistence and degradability  
Persistence and degradability  There are no data on the degradability of this product.
12.3. Bioaccumulative potential  
Bioaccumulative potential  No data available on bioaccumulation.
Partition coefficient  Not determined.
12.4. Mobility in soil  
Mobility  The product is soluble in water.
12.5. Results of PBT and vPvB assessment  
Results of PBT and vPvB assessment  No information available
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12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered.

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

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Road transport notes Not classified.

Rail transport notes Not classified.

Sea transport notes Not classified.

Air transport notes Not classified.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

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 Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

ACRIDINE ORANGE STAIN

Guidance
Workplace Exposure Limits EH40.
Approved Classification and Labelling Guide (Sixth edition) L131.
Safety Data Sheets for Substances and Preparations.

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

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