### **Aceto-Orcein Stain**



#### Section 1

## **Product Description**

Product Name: Aceto-Orcein Stain

**Recommended Use:** Science education applications

Synonyms: None known

**Distributor:** Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

#### Section 2

### **Hazard Identification**

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

### **DANGER**





Flammable liquid and vapor. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life.

#### **GHS Classification:**

Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1, Flammable Liquid Category 3, Hazardous to the aquatic environment - Acute Category 3

**Acute Toxicity Oral Contains** 

47 % of the mixture consists of ingredient(s) of unknown toxicity

#### Section 3

# **Composition / Information on Ingredients**

Chemical Name	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	53
Acetic Acid, Glacial	64-19-7	45
Orcein	1400-62-0	2

### **Section 4**

### First Aid Measures

**Emergency and First Aid Procedures** 

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower. Wash contaminated clothing before reuse. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

#### Section 5

Ingestion:

# **Firefighting Procedures**

**Extinguishing Media:** Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

#### Section 6

## Spill or Leak Procedures

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Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Ventilate the contaminated area. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

#### **Section 7**

## **Handling and Storage**

Handling: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed.

Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Handle and open container with care.

Storage: Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Store above 17 C

(62.6 F)

Storage Code: White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

#### **Section 8**

#### **Protection Information**

	ACC	OSHA PEL		
Chemical Name	<u>(TWA)</u>	(STEL)	(TWA)	(STEL)
Acetic Acid, Glacial	10 ppm TWA	15 ppm STEL	10 ppm TWA; 25 mg/m3 TWA	N/A
Orcein	N/A	N/A	N/A	N/A

**Control Parameters** 

**Engineering Measures:** Local exhaust ventilation, process enclosures, or other engineering controls are

necessary when handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection:

No respiratory protection required under normal conditions of use.

**Respirator Type(s):**NIOSH approved air purifying respirator with acid gas cartridge and dust/mist filter **Eye Protection:**Wear chemical splash goggles when handling this product. Have an eye wash station

available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: Nitrile - Extra Thick (8 mm)

#### Section 9

## **Physical Data**

Formula: See Section 3
Molecular Weight: 60.05
Appearance: Colorless Liquid

**Odor:** Strong Vinegar

Odor Threshold: No data available

pH: No data available Melting Point: 17 C Boiling Point: 118 C Flash Point: 39 C

Flammable Limits in Air: LEL: 5.4% - UEL: 16.0%

Vapor Pressure: 11.4 mmHg at 20 °C Evaporation Rate (BuAc=1): 0.97 Vapor Density (Air=1): 2.07 Specific Gravity: 1.049

Solubility in Water: Soluble

Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available

Viscosity: No data available
Percent Volatile by Volume: 100%

## Section 10

# **Reactivity Data**

**Reactivity:** Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

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Conditions to Avoid: Temperatures above the high flash point of this combustible material in combination with

sparks, open flames, or other sources of ignition. No data available.

Incompatible Materials: Water-reactive materials, Acetic anhydride, Acetaldehydes, Caustics (bases), Oxidizing

materials, Halogens, Carbonates, Strong oxidizing agents

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

**Routes of Entry** Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Respiratory disorders
Delayed Effects: No data available

**Acute Toxicity:** 

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Water 7732-18-5 Oral LD50 Rat

90000 mg/kg

Acetic Acid, Glacial 64-19-7 INHALATION
LC50 MAMMAL

11.4 GM/M3 INHALATION LC50 Mouse 5620

ppm

Orcein 1400-62-0

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAAcetic Acid64-19-7Not listedNot listedNot listedOrcein1400-62-0Not listedNot listedNot listed

**Chronic Effects:** 

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

**Sensitization:** No evidence of a sensitization effect.

**Reproductive:** No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: Skin, Eyes, Respiratory system

**Chronic:** Not listed as a carcinogen by IARC, NTP or OSHA.

# Section 12 Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or

wildlife. Harmful to fish and other water organisms.

Mobility: No data

Persistence: Biodegradation

Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Acetic Acid, Glacial 64-19-7 Aquatic LC50 (96h) Fathead Minnow 79 MG/L

Aquatic EC50 (24h) Daphnia 47 MG/L

Orcein 1400-62-0

## Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): D002

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## **Section 14**

## **Transport Information**

**Ground - DOT Proper Shipping Name:** UN2790, Acetic Acid Solution, 8, III

Air - IATA Proper Shipping Name: UN2790, Acetic Acid Solution, 8, III

## **Section 15**

## **Regulatory Information**

**TSCA Status:** All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Acetic Acid, Glacial	64-19-7	No	5000 lb RQ	5000 lb final RQ; 2270 kg final RQ	No	No
Orcein	1400-62-0	No	No	No	No	No

# Section 16

### **Additional Information**

Revised: 09/09/2015 Replaces: 09/03/2014 Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

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ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

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