

# SAFETY DATA SHEET

Creation Date 25-Mar-2014 Revision Date 25-Mar-2014 Revision Number 1

# 1. Identification

Product Name Clarifier 2

Cat No.: 7402, 7442, 7402L, V7442, V7402

**Synonyms** No information available.

Recommended Use Laboratory chemicals

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Richard Allan Scientific

A Subsidiary of Thermo Fisher Scientific

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# 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation Category 2
Serious Eye Damage/Eye Irritation Category 1

## **Label Elements**

### Signal Word

Danger

#### **Hazard Statements**

Causes skin irritation
Causes serious eye damage



### **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Skin

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician.

### Hazards not otherwise classified (HNOC)

None identified

# 3. Composition / information on ingredients

#### Haz/Non-haz

Component	CAS-No	Weight %
Water	7732-18-5	94 - 97
Acetic acid	64-19-7	3-5

### 4. First-aid measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Do not induce vomiting. Obtain medical attention. Ingestion

Most important symptoms/effects Causes eye burns.

**Notes to Physician** Treat symptomatically.

## Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire..

No information available. **Unsuitable Extinguishing Media** 

> **Flash Point** Not applicable

Method -No information available No information available. **Autoignition Temperature** 

**Explosion Limits** 

No data available Upper Lower No data available

Sensitivity to Mechanical

**Impact** 

No information available

Sensitivity to Static Discharge No information available

### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

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Hazardous Combustion Products Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Thermal decomposition can lead to release of

irritating gases and vapors.

**Protective Equipment and Precautions for Firefighters** 

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**NFPA** 

HealthFlammabilityInstabilityPhysical hazards200

6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes

and clothing.

Environmental Precautions Should not be released into the environment. See Section 12 for additional ecological

Information.

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Up

7. Handling and storage

**Handling** Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin,

or on clothing. Do not breathe vapors or spray mist.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

# 8. Exposure controls / personal protection

### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetic acid	TWA: 10 ppm	(Vacated) TWA: 10 ppm	IDLH: 50 ppm
	STEL: 15 ppm	(Vacated) TWA: 25 mg/m <sup>3</sup>	TWA: 10 ppm
		TWA: 10 ppm	TWA: 25 mg/m <sup>3</sup>
		TWA: 25 mg/m <sup>3</sup>	STEL: 15 ppm
			STEL: 37 mg/m <sup>3</sup>

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Acetic acid	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm
	TWA: 25 mg/m <sup>3</sup>	TWA: 25 mg/m <sup>3</sup>	STEL: 15 ppm
	STEL: 15 ppm	STEL: 15 ppm	
	STEL: 37 mg/m <sup>3</sup>	STEL: 37 mg/m <sup>3</sup>	

Legend

**ACGIH** - American Conference of Governmental Hygienists

**OSHA** - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and

safety showers are close to the workstation location.

**Personal Protective Equipment** 

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN **Respiratory Protection** 

149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

Handle in accordance with good industrial hygiene and safety practice **Hygiene Measures** 

## 9. Physical and chemical properties

**Physical State** Liquid Colorless **Appearance** Odor Odorless

**Odor Threshold** No information available. No information available. Melting Point/Range No data available

No information available. **Boiling Point/Range** 

**Flash Point** Not applicable

No information available. **Evaporation Rate** No information available Flammability (solid,gas)

Flammability or explosive limits

Upper No data available Lower No data available

**Vapor Pressure** No information available. No information available. **Vapor Density Relative Density** No information available. Solubility No information available. No data available

Partition coefficient; n-octanol/water

**Autoignition Temperature** No information available. **Decomposition temperature** No information available. No information available. **Viscosity** 

# 10. Stability and reactivity

Reactive Hazard None known, based on information available.

Stability Stable under normal conditions.

**Conditions to Avoid** Incompatible products. Excess heat.

**Incompatible Materials** Metals, Oxidizing agents, Acids, Bases, Alcohols, Amines, Acid anhydrides

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Thermal decomposition can lead to release of

irritating gases and vapors

Hazardous polymerization does not occur. **Hazardous Polymerization** 

None under normal processing **Hazardous Reactions** 

### 11. Toxicological information

#### **Acute Toxicity**

**Component Information** 

Component LD50 Oral LD50 Dermal LC50 Inhalation

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Water	•	Not listed	Not listed
Acetic acid	3310 mg/kg (Rat)	1060 mg/kg (Rabbit)	11.4 mg/L (Rat) 4 h

**Toxicologically Synergistic** 

Products

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

IrritationNo information available.SensitizationNo information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed				
Acetic acid	64-19-7	Not listed				

Mutagenic Effects No information available.

Reproductive Effects Experiments have shown reproductive toxicity effects on laboratory animals.

**Developmental Effects** No information available.

**Teratogenicity** Teratogenic effects have occurred in experimental animals..

STOT - single exposure None known.
STOT - repeated exposure None known.

Aspiration hazard No information available.

Symptoms / effects, No information available.

both acute and delayed

Endocrine Disruptor Information No information available

Other Adverse Effects Tumorigenic effects have been reported in experimental animals.. See actual entry in RTECS

for complete information.

# 12. Ecological information

### **Ecotoxicity**

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Acetic acid	-	Pimephales promelas: LC50	Photobacterium	EC50 = 95 mg/L/24h
		= 88 mg/L/96h	phosphoreum: EC50 = 8.8	
		Lepomis macrochirus: LC50 =	mg/L/15 min	
		75 mg/L/96h	Photobacterium	
			phosphoreum: EC50 = 8.8	
			mg/L/25 min	
			Photobacterium	
			phosphoreum: EC50 = 8.8	
			mg/L/5 min	

Persistence and Degradability No information available.

Bioaccumulation/ Accumulation No information available

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**Mobility** 

 Component
 log Pow

 Acetic acid
 -0.2

# 13. Disposal considerations

#### **Waste Disposal Methods**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

# 14. Transport information

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

# 15. Regulatory information

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Water	Χ	Х	-	231-791-2	-		Х	-	Х	X	Χ
Acetic acid	X	Х	-	200-580-7	-		Х	X	Х	X	Х

### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### **U.S. Federal Regulations**

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard
Chronic Health Hazard
Fire Hazard
Sudden Release of Pressure Hazard
No
Reactive Hazard
No

**Clean Water Act** 

Not applicable

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Water	-	1 LB	-	-
Acetic acid	X	5000 lb	-	-

Clean Air Act

Not applicable

**OSHA** Occupational Safety and Health Administration **OSHA** - Occupational Safety and Health Administration

### **CERCLA**

Not Applicable

Component	Hazardous Substances RQs	CERCLA EHS RQs
Acetic acid	5000 lb	-

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Not applicable

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Acetic acid	Х	Х	X	<u>-</u> -	X

**U.S. Department of Transportation** 

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

### **Other International Regulations**

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class** 

D2B Toxic materials E Corrosive material



# 16. Other information

Prepared By Regulatory Affairs

16. Other information

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Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

#### **Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**