

Safety Data Sheet Revision Date 14-Feb-2012

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CAUTION!

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Clarifier 2, Fisher Pinnacle Portfolio
Cat No.	22050117; 22050119; 22220108; 23005258; 7402L
Synonyms	No information available.
Recommended Use	Laboratory chemicals
Company Richard Allan Scientific A Subsidiary of Thermo Fisher Scientific 4481 Campus Drive Kalamazoo, MI 49008 Tel: (800) 522-7270	Emergency Telephone Number Chemtrec US: (800) 424-9300 Chemtrec EU: 001 (202) 483-7616

2. HAZARDS IDENTIFICATION

Emergency Overview May cause eye, skin, and respiratory tract irritation . The toxicological properties have not been fully investigated.		
Appearance Colorless	Physical State Liquid	odor odorless
Target Organs	None known.	
Potential Health Effects		
Acute Effects Principle Routes of Exposure		
Eyes Skin Inhalation Ingestion	May cause irritation May cause irritation May cause irritation of respiratory tract. May be harmful if inhaled. May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, i and diarrhea.	nausea, vomiting
Chronic Effects	Tumorigenic effects have been reported in experimental animals Experimental animals Experimental reproductive toxicity effects on laboratory animals.	its have shown
See Section 11 for additional Toxicolo	gical information.	
Aggravated Medical Conditions	No information available.	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

Component	CAS-No	Weight %
Acetic acid	64-19-7	3 - 6
Water	7732-18-5	94 - 97

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.
Ingestion	Do not induce vomiting. Obtain medical attention.
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point Method	Not applicable No information available.
Autoignition Temperature Explosion Limits Upper Lower	No information available. No data available No data available
Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire
Unsuitable Extinguishing Media	No information available.
Hazardous Combustion Products	No information available.
Sensitivity to mechanical impact Sensitivity to static discharge	No information available. No information available.

Specific Hazards Arising from the Chemical 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	Health 1	Flammability 0	Instability 0	Physical hazards N/A
6. ACCIDENTAL RELEASE MEASURES				

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

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

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

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 ³	TWA: 10 ppm
		TWA: 10 ppm	TWA: 25 mg/m ³
		TWA: 25 mg/m ³	STEL: 15 ppm
		Ű	STEL: 37 mg/m ³

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

NIOSH IDLH: Immediately Dangerous to Life or Health

Personal Protective Equipment

Eye/face Protection

Skin and body protection Respiratory 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 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 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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance odor Odor Threshold pH Liquid Colorless odorless No information available. No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure Vapor Density Viscosity Boiling Point/Range Melting Point/Range Decomposition temperature Flash Point Evaporation Rate Specific Gravity Solubility log Pow No information available. No data available

10. STABILITY AND REACTIVITY

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 ₂), Thermal decomposition can lead to release of irritating gases and vapors
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions .	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

LD50 Oral	LD50 Dermal	LC50 Inhalation
3310 mg/kg (Rat)	1060 mg/kg (Rabbit)	11.4 mg/L (Rat)4 h
-		3310 mg/kg (Rat) 1060 mg/kg (Rabbit)

Irritation	No information available.
Toxicologically Synergistic Products	No information available.
<u>Chronic Toxicity</u> Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization	No information available.

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
Other Adverse Effects	Tumorigenic effects have been reported in experimental animals See actual entry in RTECS for complete information.
Endocrine Disruptor Information	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Acetic acid	Not listed	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

No information available

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Bioaccumulation/ Accumulation

Mobility

Component	log Pow
Acetic acid	-0.2

13. DISPOSAL CONSIDERATIONS

Waste Disposal MethodsChemical 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

DOT Not regulated
TDG Not regulated

14. TRANSPORT INFORMATION

ΙΑΤΑ

Not regulated

IMDG/IMO

Not regulated

15. REGULATORY INFORMATION

International Inventories

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

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
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Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
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
Acetic acid	Х	5000 lb	-	-

Clean Air Act

Not applicable

OSHA

Not applicable

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	Х	-	Х

U.S. Department of Transportation

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

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 SDS contains all the information required by the CPR.

WHMIS Hazard Class Non-controlled

16. OTHER INFORMATION

Prepared By	Regulatory Affairs Richard Allan Scientific A Subsidiary of Thermo Fisher Scientific Tel: (800) 522-7270
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Disclaimer

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End of SDS