1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ANCOOL 3390

Recommended use Water treatment chemical

Information on Manufacturer

CHEM-AQUA, INC BOX 152170 IRVING, TEXAS 75015 Product Code 47T7 Chemical nature Aqueous dispersion **Emergency Telephone Number** CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER Corrosive

Causes skin and eye burns May cause delayed lung injury and burns Harmful or fatal if swallowed

Color Yellow

Physical State Liquid

Odor Slight

Potential Health Effects

Principle Route of Exposure

Primary Routes of Entry

Inhalation **Acute Effects**

Eyes

Inhalation

Chronic Toxicity

Ingestion

Skin

Harmful by inhalation. Causes burns.

Skin contact, Eye contact, Inhalation.

If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus

and the stomach. Inhaled corrosive substances can lead to a toxic edema of the lungs. Liver and kidney injuries may

occur.

Causes skin burns.

Target Organ Effects

Aggravated Medical Conditions

Potential Environmental Effects

Respiratory system, Liver, Kidney, Blood, Bone.

Respiratory disorders, Skin disorders, Liver disorders, Kidney disorders, Blood disorders.

Corrosive to the eyes and may cause severe damage including blindness.

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
2-Phosphonobutane-1,2,4-tricarboxylic acid, sodium salt	40372-66-5
Sodium hydroxide	1310-73-2
2-Propenoic acid, ethyl ester, polymer with ethenyl acetate and 2,5- furandione, hydrolyzed, sodium salt	111560-38-4
Polyethylene glycol	25322-68-3
Sodium polyacrylate	9003-04-7
Sodium tolyltriazole	64665-57-2
Phosphonic acid, [nitrilotris(methylene)]tris-, sodium salt	20592-85-2
Sodium molybdate	7631-95-0

4. FIRST AID MEASURES

General advice

Do not get in eyes, on skin or on clothing. Do not breathe mist.

Eye Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.

Skin Contact

Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least

15 minutes. Get medical attention immediately.

Inhalation Ingestion

Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give artificial respiration.

Get medical attention immediately.

Notes to physician

Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give

anything by mouth to an unconscious person.

The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock

therapy if needed.

5. FIRE-FIGHTING MEASURES

Flash Point

> 201 °F / > 94 °C

Method

Estimated

Autoignition Temperature No information available.

Flammability Limits in Air % Hydrogen, by reaction with metals.

Upper 75

Lower 4

Suitable Extinguishing Media

Water spray. Foam. Carbon dioxide (CO2). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Contact with metals liberates flammable hydrogen gas. Material can create slippery conditions.

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 3

Flammability 1

Instability 0

HMIS

Health 3

Flammability 1

Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can

create slippery conditions.

Environmental Precautions

Do not flush into surface water or sanitary sewer system.

Methods for Containment

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see

section 13)

Methods for Cleaning Up **Neutralizing Agent**

Pick up and transfer to properly labeled containers

Acetic acid, diluted.

7. HANDLING AND STORAGE

Handling

Do not get in eyes, on skin or on clothing. Do not breathe mist.

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

containers must be lined. Freezing will affect the physical condition but will not damage the material.

Thaw and mix before using.

Storage Temperature

Minimum

35 °F / 2 °C

Maximum

105 °F / 41 °C

Storage Conditions

Indoor

Outdoor

Heated

Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
2-Phosphonobutane-1,2,4-tricarboxylic acid, sodium salt	No data available	No data available	No data available
Sodium hydroxide	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³
2-Propenoic acid, ethyl ester, polymer with ethenyl acetate and 2,5-furandione, hydrolyzed, sodium salt	No data available	No data available	No data available
Polyethylene glycol	No data available	No data available	No data available
Sodium polyacrylate	3 mg/m ³ PNOS	5 mg/m ³ PNOR	0.05 mg/m ³ 8hr OEL - Vendor data
Sodium tolyltriazole	No data available	No data available	No data available
Phosphonic acid, [nitrilotris(methylene)]tris-, sodium salt	No data available	No data available	No data available
Sodium molybdate	TWA: 0.5 mg/m ³	TWA: 5 mg/m ³	IDLH: 1000 mg/m ³

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

Eve/Face Protection Skin Protection **Respiratory Protection** Tightly fitting safety goggles. Face-shield.

Wear suitable protective clothing, Impervious gloves.

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

General Hygiene Considerations

Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Color

Liquid

Viscosity Odor

Non viscous Slight

Appearance

Yellow Transparent

рΗ

0.48 (Butyl acetate=1)

Specific Gravity

1.15

Evaporation Rate

Percent Volatile (Volume)

VOC Content (g/L)

86.3 34

Vapor Density Boiling Point/Range 0.6 (Air = 1.0)212 °F / 100 °C VOC Content (%) Vapor Pressure

14.7 mmHg @ 70°F Completely soluble

10. STABILITY AND REACTIVITY

Chemical Stability Conditions to Avoid Incompatible Products Stable. Hazardous polymerization does not occur.

None known

Solubility

Strong oxidizing agents, Reducing agents, Acids, Aldehydes, Halogenated hydrocarbon, Leather, Oxides of phosphorus,

Tetrahydrofuran, Metals.
Carbon oxides, Nitrogen oxides (NOx), Oxides of phosphorus,

Phosphorus compounds, Alcohols, Ketones, Hydrogen cyanide, Contact

with metals liberates hydrogen gas.

None under normal processing

Hazardous Decomposition Products

Possibility of Hazardous Reactions

11. TOXICOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
2-Phosphonobutane-1,2,4-	no data available	no data available	no data available	no data available	no data available
tricarboxylic acid, sodium salt					
Sodium hydroxide	no data available	= 1350 mg/kg (Rabbit)	no data available	no data available	no data available
2-Propenoic acid, ethyl ester,	no data available	no data available	no data available	no data available	no data available
polymer with ethenyl acetate			1		
and 2,5-furandione, hydrolyzed,					
sodium salt					
Polyethylene glycol	no data available	> 20 mL/kg (Rabbit)	no data available	no data available	no data available
Sodium polyacrylate	no data available	no data available	no data available	no data available	no data available
Sodium tolyltriazole	no data available	no data available	no data available	no data available	no data available
Phosphonic acid, [nitrilotris	no data available	no data available	no data available	no data available	no data available
(methylene)]tris-, sodium salt		7			
Sodium molybdate	no data available	no data available	> 2080 mg/m ³ (Rat) 4 h	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
2-Phosphonobutane-1,2,4- tricarboxylic acid, sodium salt	no data available	no data available	no data available	no data available	no data available
Sodium hydroxide	no data available	no data available	no data available	no data available	eyes, respiratory system, skin
2-Propenoic acid, ethyl ester, polymer with ethenyl acetate and 2,5-furandione, hydrolyzed, sodium salt	no data available	no data available	no data available	no data available	no data available
Polyethylene glycol	no data available	no data available	no data available	no data available	no data available
Sodium polyacrylate	no data available	no data available	no data available	no data available	no data available
Sodium tolyltriazole	no data available	no data available	no data available	no data available	no data available
Phosphonic acid, [nitrilotris (methylene)]tris-, sodium salt	no data available	no data available	no data available	no data available	no data available
Sodium molybdate	no data available	no data available	no data available	no data available	respiratory system, eyes, kidneys, blood, bone, pancreas

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
2-Phosphonobutane-1,2,4-	not applicable				
tricarboxylic acid, sodium salt					
Sodium hydroxide	not applicable				
2-Propenoic acid, ethyl ester,	not applicable				
polymer with ethenyl acetate		29 16			
and 2,5-furandione, hydrolyzed,					
sodium salt					
Polyethylene glycol	not applicable				
Sodium polyacrylate	not applicable				
Sodium tolyltriazole	not applicable				
Phosphonic acid, [nitrilotris	not applicable				
(methylene)]tris-, sodium salt					

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Sodium molybdate	A3	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information Component Information

No information available.

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
2-Phosphonobutane-1,2,4- tricarboxylic acid, sodium salt	no data available	no data available	no data available	no data available	N/A
Sodium hydroxide	no data available	LC50 = 45.4 mg/L Oncorhynchus mykiss 96 h	no data available	no data available	N/A
2-Propenoic acid, ethyl ester, polymer with ethenyl acetate and 2,5-furandione, hydrolyzed, sodium salt	no data available	no data available	no data available	no data available	N/A
Polyethylene glycol	no data available	LC50 > 5000 mg/L Carassius auratus 24 h	EC50 = 100000 mg/L 15 min	no data available	N/A
Sodium polyacrylate	no data available	no data available	no data available	no data available	N/A
Sodium tolyltriazole	no data available	no data available	no data available	no data available	N/A
Phosphonic acid, [nitrilotris (methylene)]tris-, sodium salt	no data available	no data available	no data available	no data available	N/A
Sodium molybdate	no data available	no data available	no data available	no data available	N/A

Persistence and Degradability

Bioaccumulation Mobility No information available. No information available. No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Container Disposal Dispose of in accordance with local regulations.

Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Sodium hydroxide solution

Hazard Class

UN-No UN1824

Packing Group

Reportable Quantity (RQ) Sodium hydroxide, RQ kg= 12061.64

Description UN1824, Sodium hydroxide solution, 8, PG II

TDG

Proper shipping name Sodium hydroxide solution

Hazard Class 8 UN-No UN1824

Packing Group

Description UN1824, Sodium hydroxide solution, 8, PG II

ICAO

UN-No UN1824

Proper Shipping Name Sodium hydroxide solution

Hazard Class 8

Packing Group

Shipping Description UN1824, Sodium hydroxide solution, 8, PG II

IATA

UN-No UN1824

Proper Shipping Name Sodium hydroxide solution

Hazard Class 8
Packing Group || ERG Code 81

Shipping Description UN1824, Sodium hydroxide solution, 8, PG II

IMDG/IMO

Proper Shipping Name Sodium hydroxide solution

Hazard Class 8 UN-No UN1824 **Packing Group**

EmS No.

II F-A, S-B

Shipping Description

UN1824, Sodium hydroxide solution,8,PG II

15. REGULATORY INFORMATION

Inventories

TSCA DSL Complies

Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
2-Phosphonobutane-1,2,4-tricarboxylic acid, sodium salt	Not applicable	Not applicable
Sodium hydroxide	1000 lb	Not applicable
2-Propenoic acid, ethyl ester, polymer with ethenyl acetate	Not applicable	Not applicable
and 2,5-furandione, hydrolyzed, sodium salt		
Polyethylene glycol	Not applicable	Not applicable
Sodium polyacrylate	Not applicable	Not applicable
Sodium tolyltriazole	Not applicable	Not applicable
Phosphonic acid, [nitrilotris(methylene)]tris-, sodium salt	Not applicable	Not applicable
Sodium molybdate	Not applicable	Not applicable

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

E Corrosive material D2A Very toxic materials



16. OTHER INFORMATION

Prepared By Supercedes Date Issuing Date Sarah Williamson 04/13/2010

Reason for Revision

08/09/2013 No information available.

Glossary List of References. No information available.

No information available.

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