

# **Safety Data Sheet**

Creation Date 05-Apr-2010 Revision Date 05-Apr-2010 Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Bluing Reagent

Cat No. 7301, 7341

**Synonyms** No information available.

Recommended Use Laboratory chemicals

CompanyEmergency Telephone NumberRichard Allan ScientificChemtrec US: (800) 424-9300

A Subsidiary of Thermo Fisher Scientific Chemtrec EU: (202) 483-7616

4481 Campus Drive Kalamazoo, MI 49008 Tel: (800) 522-7270

#### 2. HAZARDS IDENTIFICATION

CAUTION!

**Emergency Overview** 

May cause eye, skin, and respiratory tract irritation . The toxicological properties have not been fully investigated.

Appearance WhitePhysical State Liquidodor No information available

Target Organs Liver

**Potential Health Effects** 

**Acute Effects** 

**Principle Routes of Exposure** 

**Eves** May cause irritation.

**Skin** May cause irritation. May be harmful in contact with skin.

**Inhalation** May cause irritation of respiratory tract. May be harmful if inhaled.

**Ingestion** May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting

and diarrhea.

Chronic Effects Experiments have shown reproductive toxicity effects on laboratory animals. May cause

adverse liver effects.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions No information available.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Haz/Non-haz

Component	CAS-No	Weight %
Water	7732-18-5	98+
Magnesium sulfate	7487-88-9	1.0
Sodium bicarbonate	144-55-8	< 1.0
1-Tetradecanaminium, N,N,N-trimethyl-, bromide	1119-97-7	< 0.1

## 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. Get medical attention

immediately if symptoms occur.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if

symptoms occur.

**Ingestion** Do not induce vomiting. Obtain medical attention.

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

Flash Point No information available.

Method No information available.

Autoignition Temperature No information available.

**Explosion Limits** 

UpperNo data availableLowerNo data available

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**

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 Soak up with inert absorbent material. Keep in suitable and closed containers for disposal.

Up

#### 7. HANDLING AND STORAGE

**Handling** Wear personal protective equipment. Ensure adequate ventilation. Do not breathe vapors or

spray mist. Avoid contact with skin, eyes and clothing.

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 This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

NIOSH IDLH: Immediately Dangerous to Life or Health

**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

**Respiratory Protection** 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 Liquid

Appearance White odor No information available

Odor Threshold

No information available.

No information available.

Vapor PressureNo information available.Vapor DensityNo information available.ViscosityNo information available.

Boiling Point/Range
No information available.

Melting Point/Range
No information available.

No information available.

Decomposition temperature °CNo information available.Flash PointNo information available.Evaporation RateNo information available.Specific GravityNo information available.SolubilityNo information available.log PowNo data available

# **10. STABILITY AND REACTIVITY**

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO<sub>2</sub>), Sulfur oxides

Hazardous Polymerization Hazardous polymerization does not occur

Hazardous Reactions . None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

Product Information No acute toxicity information is available for this product

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium bicarbonate	4220 mg/kg (Rat)	Not listed	Not listed
1-Tetradecanaminium, N,N,N-	3900 mg/kg (Rat)	Not listed	Not listed
trimethyl-, bromide			

**Irritation** No information available.

**Toxicologically Synergistic** 

**Products** 

No information available.

**Chronic Toxicity** 

Carcinogenicity There are no known carcinogenic chemicals in this product

**Sensitization** No information available.

Mutagenic Effects Mutagenic effects have occurred in experimental animals.

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

**Developmental Effects** Developmental effects have occurred in experimental animals.

**Teratogenicity** Teratogenic effects have occurred in humans...

Other Adverse Effects The toxicological properties have not been fully investigated.. See actual entry in RTECS for

complete information.

**Endocrine Disruptor Information** No information available

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## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Magnesium sulfate	EC50 72 h 2700 mg/L	Not listed	= 84000 mg/L EC50 Photobacterium phosphoreum 30 min	EC50 24 h 1700 mg/L
Sodium bicarbonate	EC50: 650 mg/L/120h	Not listed	Not listed	EC50: 2350 mg/L/48h

Persistence and Degradability

No information available

Bioaccumulation/ Accumulation

No information available

Mobility

iodility .

Component	log Pow
Water	-1.87

# 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

**DOT** Not regulated

**TDG** Not regulated

<u>IATA</u> Not regulated

IMDG/IMO Not regulated

## 15. REGULATORY INFORMATION

#### **International Inventories**

Component	TSCA	DSL	NDSL	<b>EINECS</b>	<b>ELINCS</b>	NLP	PICCS	<b>ENCS</b>	AICS	CHINA	KECL
Water	Х	Х	-	-	-		Χ	-	Χ	Х	
											X

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15. REGULATORY INFORMATION											
Magnesium sulfate	Х	Х	-	231-298- 2	-		Х	Х	Х	Х	KE- 22752 X
Sodium bicarbonate	Х	Х	-	205-633- 8	-		Х	Х	X	X	KE- 31360 X
1-Tetradecanaminium, N,N,N- trimethyl-, bromide	Х	Х	-	214-291- 9	-		-	Х	X	X	KE- 34687 X

#### 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 HazardNoChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

#### **Clean Water Act**

Not applicable

#### Clean Air Act

Not applicable

#### **OSHA**

Not applicable

#### **CERCLA**

Not Applicable

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### State Right-to-Know

Not applicable

#### **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**

Non-controlled

# **16. OTHER INFORMATION**

Prepared By Avantik

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avantik-us.com

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Revision Summary "\*\*\*", and red text indicates revision

#### **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**