

## SAFETY DATA SHEET

Revision Date 09-Mar-2015 Revision Number 1

1. Identification

Product Name Nitrate B Reagent

Cat No.: R8309004

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Emergency Telephone Number

Remel INFOTRAC - 24 Hour Number: 1-800-535-5053

12076 Santa Fe Drive Outside of the United States, call 24 Hour Number: 001-352-323-3500 (Call Collect)

Lenexa, KS 66215 United States Telephone: 1-800-255-6730

Fax:1-800-621-8251

## 2. Hazard(s) identification

### Classification

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

Flammable liquids

Skin Corrosion/irritation

Serious Eye Damage/Eye Irritation

Specific target organ toxicity (single exposure)

Category 1

Category 3

Category 1

Category 3

Target Organs - Respiratory system.

Label Elements

## Signal Word

Danger

### **Hazard Statements**

Flammable liquid and vapor Causes severe skin burns and eye damage May cause respiratory irritation



## **Precautionary Statements**

### Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

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

Keep cool

### Response

Immediately call a POISON CENTER or doctor/physician

### Inhalation

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

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

#### **Eves**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing **Ingestion** 

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

### Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

None identified

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Acetic acid	64-19-7	28
1-Naphthalenamine, N,N-dimethyl-	86-56-6	0.6

## 4. First-aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

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

Immediate medical attention is required. Keep eye wide open while rinsing.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Remove and wash

contaminated clothing before re-use. Call a physician immediately.

**Inhalation** If breathing is difficult, give oxygen. Remove from exposure, lie down. Do not use

mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial

respiration with a respiratory medical device. Call a physician immediately.

**Ingestion** Do not induce vomiting. Never give anything by mouth to an unconscious person. Clean

mouth with water. Call a physician immediately.

Most important symptoms/effects Breathing difficulties. Causes burns by all exposure routes. . Symptoms of overexposure

may be headache, dizziness, tiredness, nausea and vomiting: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation

of stomach or esophagus should be investigated

Notes to Physician Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media CO 2, dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire

with water spray.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

### **Specific Hazards Arising from the Chemical**

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

## **Hazardous Combustion Products**

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

**NFPA** 

Up

Health	Flammability	Instability	Physical hazards
3	2	1	N/A

## 6. Accidental release measures

Personal Precautions

Use personal protective equipment. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition.

Take precautionary measures against static discharges.

Refer to protective measures listed in Sections 7 and 8

**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.

Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

# 7. Handling and storage

**Handling** Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Wear

personal protective equipment. Do not breathe vapors or spray mist. Do not ingest. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools.

Take precautionary measures against static discharges.

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

Keep away from heat and sources of ignition.

## 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 Industrial 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 that eyewash stations and safety showers are close to the workstation location.

Ensure adequate ventilation, especially in confined areas. Use explosion-proof

electrical/ventilating/lighting/equipment.

**Personal Protective Equipment** 

**Eye/face Protection** Tightly fitting safety goggles. Face-shield.

**Skin and body protection** Long sleeved clothing.

**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.

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

## 9. Physical and chemical properties

Physical State Liquid

Appearance
Odor
No information available
No data available

Boiling Point/RangeNo information availableFlash PointNo information availableEvaporation RateNo information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information available

Vapor DensityNo information availableSpecific GravityNo information availableSolubilityNo information availablePartition coefficient; n-octanol/waterNo data availableAutoignition TemperatureNo information available

Decomposition Temperature

Viscosity

No information available
No information available

VOC Content(%) 28

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Keep away from open flames, hot surfaces and

sources of ignition.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products 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** 

**Product Information** 

Oral LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Dermal LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Vapor LC50

Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

**Component Information** 

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

Toxicologically Synergistic No information available

**Products** 

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

IrritationNo information availableSensitizationNo 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
Acetic acid	64-19-7	Not listed				
1-Naphthalenamine, N,N-dimethyl-	86-56-6	Not listed				

Mutagenic Effects No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure Respiratory system STOT - repeated exposure None known

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**Aspiration hazard** No information available

delayed

Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of

perforation: Product is a corrosive material. Use of gastric lavage or emesis is

contraindicated. Possible perforation of stomach or esophagus should be investigated

**Endocrine Disruptor Information** No information available

The toxicological properties have not been fully investigated. Other Adverse Effects

# 12. Ecological information

#### Ecotoxicity

Harmful to aquatic organisms. Contains a substance which is:. The product contains following substances which are hazardous for the environment.

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	
			ma/L/5 min	

**Persistence and Degradability Bioaccumulation/ Accumulation**  No information available No information available.

**Mobility** 

Component	log Pow
Acetic acid	-0.2

## 13. Disposal considerations

**Waste Disposal Methods** 

Should not be released into the environment.

## 14. Transport information

DOT

2790 **UN-No** 

**Proper Shipping Name** Acetic acid solution

**Hazard Class** Ш **Packing Group** 

TDG

2790 **UN-No** 

**Proper Shipping Name** Acetic acid solution

**Hazard Class Packing Group** Ш

IATA

2790 **UN-No** 

Acetic acid solution **Proper Shipping Name** 

**Hazard Class** Ш **Packing Group** 

IMDG/IMO

**UN-No** 2790

**Proper Shipping Name** Acetic acid, solution

**Hazard Class Packing Group** Ш

## 15. Regulatory information

### All of the components in the product are on the following Inventory lists: X = listed

### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Acetic acid	Х	Х	-	200-580-7	1		Χ	Χ	Χ	Х	Χ
1-Naphthalenamine, N,N-dimethyl-	Х	Х	-	201-682-4	-		Х	-	Х	-	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 Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

## **Clean Water Act**

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

Clean Air Act Not applicable

**OSHA** Occupational Safety and Health Administration

Not applicable

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

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

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals

## U.S. State Right-to-Know

Regulations

	Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
I	Acetic acid	X	X	X	=	X

### **U.S.** Department of Transportation

Reportable Quantity (RQ): Y
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 E Corrosive material D2B Toxic materials

B2 Flammable liquid



## 16. Other information

Prepared By Regulatory Affairs

Remel

Tel: 1-800-255-6730

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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