

# **SAFETY DATA SHEET**

Issue Date 25-Aug-2014 Revision Date 25-Aug-2014 Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name BIOLOX NP-2 LF

Other means of identification

Product Code 046 UN/ID No. UN3264 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Non-Phosphate Liquid Acid Cleaner. Uses advised against PREVENT DISPERSION OF MISTS!

**Manufacturer Address** 

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

Emergency telephone number

Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Corrosive to metals	Category 1

# Label elements

#### **Emergency Overview**

# Danger

### Hazard statements

Harmful if inhaled

Causes severe skin burns and eye damage

May be corrosive to metals



Appearance aqueous solution

Physical state liquid

**Odor** Pungent

# **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Keep only in original container Wear protective gloves/protective clothing/eye protection/face protection Use only in well-ventilated areas

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### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see Section 4 on this label)

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

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

Wash contaminated clothing before reuse

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

Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Absorb spillage to prevent material damage

### **Precautionary Statements - Storage**

Store locked up

Store in a corrosive resistant container.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

Other Information

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Nitric acid	7697-37-2	20	
Sulfuric acid	7664-93-9	7.5	

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

### First aid measures

Ingestion

**General advice** Immediate medical attention is required.

Eye contact Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete

rinsing. Get immediate medical attention.

**Skin Contact** Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention.

Remove contaminated clothing and wash before reuse.

**Inhalation** Remove victim from immediate source of exposure to fresh air. If breathing is difficult,

administer oxygen if available. If victim is not breathing, administer CPR. If individual experiences nausea, headache, or dizziness, get immediate medical attention.

Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing

or unconscious person.

Self-protection of the first aider Avoid contact with skin. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

**Symptoms** Causes severe irritation and or burns.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media None known.

### Specific hazards arising from the chemical

No information available.

Hazardous combustion products if stock solution container breaks, the product should be handled with care as it is corrosive. Under fire conditions, toxic, corrosive fumes are emitted. Nitrogen oxides (NOx).

**Explosion data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### 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.

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin. Evacuate nonessential personnel. Ventilate area. Wear Personal precautions

appropriate personal protection equipment. Wear chemical resistant suit, gloves and boots rated for use with corrosive materials. Wear appropriate respiratory protection based on spill conditions, airborne concentration and the presence or absence of fumes or mists.

Use personal protection recommended in Section 8. For emergency responders

**Environmental precautions** See Section 12 for additional ecological information.

Completely contain spilled material with dikes or sand bags, etc. **Methods for containment** 

Recover as much material as possible into containers for disposal or reuse. Remaining Methods for cleaning up

material may be diluted with water and neutralized. Flush spill area with water. Neutralization products, both solid and liquid, must be recovered for disposal.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wear appropriate Advice on safe handling

protective clothing/equipment. Do not breathe dust. Use with adequate ventilation. Do not

ingest.

# Conditions for safe storage, including any incompatibilities

Keep containers tightly closed and properly labeled. Containers that have been emptied will **Storage Conditions** 

retain product residue and should be handled as if they were full. Store in a cool, dry, well-ventilated place away from incompatible materials. Wash hands before eating, drinking, using tobacco, applying make-up or using the toilet. Do not store, use, and/or

consume foods, beverages, tobacco in areas where this product is stored.

Incompatible materials

Strong oxidizing agents. Metals. Contact with metals may evolve flammable hydrogen gas. Bases. Store away from incompatible materials. Strong reducing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Nitric acid	STEL: 4 ppm	TWA: 2 ppm	IDLH: 25 ppm
7697-37-2	TWA: 2 ppm	TWA: 5 mg/m <sup>3</sup>	TWA: 2 ppm
		(vacated) TWA: 2 ppm	TWA: 5 mg/m <sup>3</sup>
		(vacated) TWA: 5 mg/m <sup>3</sup>	STEL: 4 ppm
		(vacated) STEL: 4 ppm	STEL: 10 mg/m <sup>3</sup>
		(vacated) STEL: 10 mg/m <sup>3</sup>	
Sulfuric acid	TWA: 0.2 mg/m³ thoracic fraction	TWA: 1 mg/m <sup>3</sup>	IDLH: 15 mg/m <sup>3</sup>
7664-93-9	_	(vacated) TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

### **Appropriate engineering controls**

**Showers** 

Evewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

Avoid contact with eyes. Wear protective splash proof safety goggles. Additional full face Eye/face protection

protection is recommended if splashing is a possibility.

Skin and body protection Wear suitable protective clothing. Protective shoes or boots.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

> respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**General Hygiene Considerations** Take off all contaminated clothing and wash it before reuse. Avoid contact with skin, eyes

or clothing. Use personal protective equipment as required. When using do not eat, drink or

smoke. Keep away from food, drink and animal feeding stuffs.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

**Physical state** liauid

**Appearance** aqueous solution Odor **Pungent** 

Color clear colorless Odor threshold No information available

**Property** Valu<u>es</u> Remarks • Method pH 1% Soln.: 1.6

pН Melting point/freezing point

No information available Boiling point / boiling range No information available Flash point No information available **Evaporation rate** No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available

**Specific Gravity** 1.176

Water solubility completely soluble No information available Solubility in other solvents Partition coefficient No information available **Autoignition temperature** No information available No information available **Decomposition temperature** Kinematic viscosity No information available Dynamic viscosity No information available **Explosive properties** No information available Oxidizing properties No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

#### **Conditions to avoid**

Avoid extreme heat. High temperatures might lead to formation of nitrogen dioxide. Contact with water may cause violent reaction with evolution of heat. To dilute: Add product slowly to lukewarm water; not water to product.

#### **Incompatible materials**

Strong oxidizing agents. Metals. Contact with metals may evolve flammable hydrogen gas. Bases. Store away from incompatible materials. Strong reducing agents.

#### **Hazardous Decomposition Products**

Nitrogen oxides (NOx). Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Product Information No data available

**Inhalation** No data available.

**Eye contact** No data available.

Skin Contact No data available.

**Ingestion** No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Nitric acid 7697-37-2	-	-	= 67 ppm (Rat) 4 h
Sulfuric acid	= 2140 mg/kg (Rat)	-	= 510 mg/m³ (Rat) 2 h
7664-93-9			

### Information on toxicological effects

**Symptoms** No information available.

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

SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Nitric acid 7697-37-2	-	Group 2A	-	X
Sulfuric acid 7664-93-9	A2	Group 1	Known	X

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard

No information available.
No information available.
No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 28533 mg/kg ATEmix (inhalation-dust/mist) 3.4 mg/l ATEmix (inhalation-vapor) 335 mg/l

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

0.5% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Nitric acid	-	72: 96 h Gambusia affinis mg/L	-
7697-37-2		LC50	
Sulfuric acid	-	500: 96 h Brachydanio rerio mg/L	29: 24 h Daphnia magna mg/L
7664-93-9		LC50 static	EC50

### Persistence and degradability

No information available.

### **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
Nitric acid	-2.3
7697-37-2	

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

**Disposal of wastes**Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

Chemical Name	California Hazardous Waste Status
Nitric acid	Toxic
7697-37-2	Corrosive
	Ignitable

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Sulfuric acid	Toxic
7664-93-9	Corrosive

# 14. TRANSPORT INFORMATION

DOT Regulated UN/1D No. UN3264

**Proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s.

Hazardous ingredients (Nitric Acid/Sulfuric Acid)

Hazard Class 8
Packing Group ||

# 15. REGULATORY INFORMATION

**International Inventories** 

Complies **TSCA DSL/NDSL** Complies **EINECS/ELINCS** Complies **ENCS** Does not comply Complies **IECSC KECL** Complies Complies **PICCS AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# **US 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 Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %	
Nitric acid - 7697-37-2	1.0	
Sulfuric acid - 7664-93-9	1.0	

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard Yes

# **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Nitric acid 7697-37-2	1000 lb	-	-	Х
Sulfuric acid 7664-93-9	1000 lb	-	-	Х

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Nitric acid 7697-37-2	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ
Sulfuric acid 7664-93-9	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ

# **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals

Chemical Name	California Proposition 65	
Sulfuric acid - 7664-93-9	Carcinogen	

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Nitric acid 7697-37-2	X	X	X
Sulfuric acid 7664-93-9	X	X	Х

# U.S. EPA Label Information

**EPA Pesticide Registration Number** Not Applicable

# **16. OTHER INFORMATION**

NFPA Health hazards 3 Flammability 0 Instability 1 Physical and Chemical Properties 
HMIS Health hazards 3 Flammability 0 Physical hazards 1 Personal protection X

Prepared By kcs

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**Revision Note** 

No information available

# Disclaimer

The information provided in this Material 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**