

SAFETY DATA SHEET

Issue Date 11-2-2018

Revision Date 11-14-2018

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name FNA 3000

Other Means of Identification

Product Code 1399

Recommended Use of the Chemical and Restrictions on Use

Recommended Use

Food Processing and Cleaning Industry

Details of the Supplier of the Safety Data

Sheet Supplier Address

Algonquin Products
PO Box 87005
Dartmouth MA 02748

Emergency Telephone Number

Company Phone Number 1-866-578-4240

Emergency Telephone 1-800-535-5053

2. HAZARDS IDENTIFICATION

GHS Classification

Acute Toxicity-Inhalation: Category 3

Skin Corrosion/Irritation: Category 1

Eye Damage/Irritation: Category 1

Corrosive to Metals: Category 1

Signal Word

DANGER

Symbols



Emergency Overview:

Physical State: Liquid

Color: White

Odor: Acid Characteristic

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard(29 CFR 1910.1200).

Hazard Statements

May be corrosive to metals.
Causes severe burns and eye damage.
Causes serious eye damage.
Harmful if inhaled.

Precautionary Statements-Prevention

Keep only in original container.
Do not breathe dust/fume/gas/mist/vapors/spray.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements – Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
IF ON SKIN: Remove/Take off immediately all contaminate clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest i a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so-continue rinsing. Immediately call a POISON CENTER or a doctor/physician if you feel unwell. Wash contaminated clothing before reuse/ Absorb spillage to prevent material damage.

Precautionary Statements – Storage

Store in a closed container.
Store locked up.
Store in a well-ventilated place.

Precautionary Statements – Disposal

Dispose of contents/container in accordance with local, state and federal regulations..

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	55-60
Nitric Acid	7697-37-2	20-25
Sodium Xylenesulphonate	1300-72-7	5-10
Surfactant	7664-93-9	5-10

The balance of the chemicals in this mixture are either considered nonhazardous or are below the listing limits for hazardous substances. These chemicals are considered trade secrets. The specific identity of these chemicals is available to health professionals.

4. FIRST AID MEASURES

First Aid Measures

Eye Contact	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.
Skin Contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower). Wash contaminated clothing before reuse. Immediately call a poison center or doctor.
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms	Symptoms of poisoning may appear several hours later. Direct contact with eyes causes serious damage. Substance causes skin burns. Harmful if swallowed. Keep out of reach of children.
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Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians	Probable mucosal damage may contraindicate the use of gastric lavage.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

High volume jet water

Specific Hazards Arising from the Chemical

Fluorine compounds, carbon dioxide, carbon monoxide, smoke.

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

Personal Precautions Use personal protective equipment as required. Isolate area. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

Methods and Material for Containment and Cleaning Up

Methods for Containment For small spills, absorb on poly-pads or other suitable non-reactive absorbent material. Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Sweep up and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Prevent unauthorized access. Keep out of the reach of children.

Incompatible Materials

Strong bases, bleach., oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Nitric Acid 7697-37-2	2 ppm TWA	2ppm 5mg/m3	None Known
Sodium Xylenesulphonate 1300-72-7	None known	None Known	None Known
Surfactant	0.2 mg/m3 TWA	1mg/m3	1mg/m3

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or other biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Appropriate Engineering Controls: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and the using the bathroom and at the end of the working periods.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection

Wear safety goggles. Wear face-shield and protective suit.

Skin and Body Protection

Wear suitable protective clothing. Use impervious gloves.

Respiratory Protection

Not required with expected use. Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Acid Characteristic
Appearance	Liquid	Odor Threshold	Not determined
Color	White		

Property

Values

pH	1
Melting Point/Freezing Point	Not determined
Boiling Point/Boiling Range	determined
Flash Point	212 Deg F
Evaporation Rate	n/a (tcp) (H20=1) =1

Flammability (Solid, Gas)	n/a-liquid
Upper Flammability Limits	UEL=n/a
Lower Flammability Limits	LEL=n/a
Vapor Pressure	20@68F
Vapor Density	Not determined
Specific Gravity	1.11
Water Solubility	Soluble in water
Solubility in Other Solvents	Not determined
Partition Coefficient	Not determined
Auto ignition Temperature	Not determined
Decomposition Temperature Kinematic	Not determined
Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties Oxidizing Properties	Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

No data available.

Incompatible Materials

Strong bases/bleach/oxidizers.

Hazardous Decomposition Products

Hydrogen fluoride, sulfur oxides, carbon dioxide, carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact Causes severe eye damage.

Skin Contact Causes severe skin burns.

Effects may be delayed for several hours after exposure.

Inhalation Irritating to the mucus membranes of the respiratory tract. Nasal discomfort and coughing.

Ingestion Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water	90,000 mg/kg (rat)	Data not available	Data not available
Nitric Acid 7697-37-2	mg/kg (rat)	Data not available	244 mg/l

Sodium Xylenesulphonate 1300-72-7	7000 mg/kg (pig)	>2,000 mg/kg	6.41 mg/l (rat)
Surfactant 7664-93-9	>2000 mg/kg (rabbit)	500-2000 mg/kg (rat)	Data not available

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical Measures of Toxicity

ATEmix-oral: mg/kg ATEmix-dermal: mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Material may be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Nitric Acid 7697-37-2	Data not available	No data available	Data not available	100-330 mg/l 48 hours
Sodium Xylenesulphonate 1300-72-7	Data not available	>1000mg/l, 96 hours	Data not available	Data not available
Surfactant 7664-93-9	47.3 mg/l, 72 hours	1.67 mg/l, 96 hours	Data not available	2.4mg/l, 48 hours

Persistence and Degradability

Not determined

Bioaccumulation

Not determined.

Other Adverse Effects

Not determined

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 Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT UN 3264, Corrosive Liquid, N.O.S. (Nitric Acid, Sulfuric Acid), 8, II

IATA Not available.

IMDG Not available.

TDG Not available.

15. REGULATORY INFORMATION

International Inventories

Not determined

US Federal Regulations

CERCLA

Chemical Name	CAS No	Reportable Quantity (RQ)
Hydrofluoric Acid	7664-39-3	100 lbs

SARA 304 Extremely Hazardous Substances

Chemical Name	CAS No	Reportable Quantity (RQ)
Hydrofluoric Acid	7664-39-3	100 lbs

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS No	Weight-%
Hydrofluoric Acid	7664-39-3	10-15
Sulfuric Acid	7664-93-9	10-15
Ethylene Glycol Monobutyl Ether	111-76-2	1.947

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrofluoric Acid	X	X	X
Ethylene Glycol Monobutyl Ether	X	X	X

California Prop 65: This product contains no chemicals known to the State of California to cause cancer and reproductive toxicity.

16. OTHER INFORMATION

NEPA	Health Hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determined
HMIS	Health Hazards 3	Flammability 0	Physical Hazards 0	Personal Protection C

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Revision Note GHS

Disclaimer

The information provided in 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 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