

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communication Standard
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.



Product Identity – Section I

Product Name: 302+
 CAS #: See below
 Manufacturer: Arcal Chemicals, Inc.
 Address: 223 Westhampton Ave.

Emergency Tele: 800-424-9300 (Chemtrec)
 Revision Date: May 6, 2008
 Other Tele: 301-336-9300
 Fax: 301-336-6597

HAZARDOUS INGREDIENTS / OTHER COMPONENTS – SECTION II

MATERIAL / CAS #	ACGIH (TLV – TWA)	OSHA (PEL -TWA)
Nitric Acid Acid Fluorides	CAS #7697-37-2 CAS #1341-49-7	2 ppm 2.5 mg/m3
		2 ppm na

PHYSICAL DATA – SECTION III

APPEARANCE White Gel	ODOR Acid Odor	MELT POINT na	SPECIFIC GRAVITY 1.17
VAPOR DENSITY >1	% VOLATILE BY VOLUME na	BULK DENSITY na	BOILING POINT 110°F
VAPOR PRESSURE na	% SOLUBILITY (H2O) Soluble		

FIRE AND EXPLOSION HAZARD DATA – SECTION IV

FLASH POINT NONE	<table border="1"> <thead> <tr> <th colspan="2">NFPA FIRE HAZARDS</th> </tr> </thead> <tbody> <tr> <td>HEALTH</td> <td>2</td> </tr> <tr> <td>FLAMMABILITY</td> <td>0</td> </tr> <tr> <td>REACTIVITY</td> <td>3</td> </tr> <tr> <td>SPECIFIC</td> <td>0</td> </tr> </tbody> </table>	NFPA FIRE HAZARDS		HEALTH	2	FLAMMABILITY	0	REACTIVITY	3	SPECIFIC	0
NFPA FIRE HAZARDS											
HEALTH		2									
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FLAMMABLE LIMITS LEL na UEL na											
EXTINGUISHING MEDIA Water, dry chemical, foam.											
SPECIAL FIRE FIGHTING PROCEDURES Use self-contained breathing apparatus. Keep container cool.											
UNUSUAL FIRE AND EXPLOSION HAZARDS: Acidic and oxidizing product reacts w/metals DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS: Will produce hydrogen and under extreme heat, will produce Hydrogen Fluoride and oxides of Nitrogen. EMPTY CONTAINER WARNING: Do not reuse empty containers.	4 = EXTREME 3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICANT										

REACTIVITY DATA – SECTION V

302+ (CONT.)

Stability: Stable; hazardous polymerization will not occur. **CONDITIONS TO AVOID:** Avoid contact with alcohols, and alkaline materials.

INCOMPATIBILITY (MATERIAL TO AVOID): Alcohols and alkaline and other easily oxidizable materials.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Hydrogen fluoride and oxides of nitrogen.

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Easily oxidized materials.

HEALTH HAZRD DATA – SECTION VI

Route(s) of Entry: **Inhalation? Yes** **Skin? Yes** **Ingestion? Yes**

Health Hazards (Acute and Chronic): Irritation of skin and eyes. Severe burns on skin; avoid prolonged contact, as from contaminated clothing. Depth of injury can be deeper than apparent irritation.

CARCINOGENICITY: NO **NTP?** na **IARC Monographs?** na **OSHA?** na

MEDICAL CONDITIONS

GENERALLY AGGRAVATED by EXPOSURE: Skin conditions; upper respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with clear water for 15 minutes or until irritation subsides. If irritation persists, seek medical attention.

SKIN CONTACT: Wash skin thoroughly with soap and water. Remove any contaminated clothing.

INHALATION: Remove subject from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen if available.

INGESTION: DO NOT induce vomiting; call the poison control center or a physician.

PRECAUTIONS FOR SAFE HANDLING AND USE – SECTION VII

Steps to be taken in case material is released or spilled: Collect with inert material. Flush area with plenty of water. Neutralize spills with Sodium Bicarbonate.

Waste Disposal Method: In accordance with Federal, State and local regulations.

Precautions to be taken in handling and storing: Keep away from easily oxidized materials such as alcohols and alkalis.

CONTROL MEASURES – SECTION VIII

Respiratory or breathing apparatus: Use self contained breathing apparatus in confined areas.

Ventilation: **Local Exhaust:** **Special:**
 Normal **Mechanical:** Exhaust fans in confined areas. **Other:** na

Protective Gloves: Acid resistant gloves **Eye Protection:** Goggles and/or face shield.

Other Protective Clothing or Equipment: Rubber apron.

TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Nitric Acid Solution **HAZARD CLASS:** 8 **UN NUMBER:** UN2031 **PG:** II