

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.

U.S. Department of Labor

Occupational Safety and Health Administration
 (Non-Mandatory-Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (As Used on Label and List)

FINAL PLUS

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

NA = Not Applicable NIA = No Information Available

Section I

Manufacturer's Name Sunburst Chemicals, Inc.	Emergency Telephone Number 1-866-303-6943 (7 days/24 hours)
Address (Number, Street, City, State, and ZIP Code) 220 W. 86th St.	Telephone Number For Information (952)884-3144
Bloomington, MN 55420	Date Prepared 02-10-03
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	%(optional)
Ammonium Bifluoride NH_4HF_2	NIA	NIA		over 10
Phosphoric Acid	1 ppm	NIA		

Section III - Physical/Chemical Characteristics

Boiling Point Over 212° F.	Specific Gravity (H ₂ O=1) 1.35
Vapor Pressure (mm Hg.) NA	Melting Point NIA
Vapor Density (AIR=1) NA	Evaporation Rate (Butyl Acetate = 1) NA
Solubility In Water Complete.	
Appearance and Odor Clear, colorless liquid.	

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) None.	Flammable Limits	LEL NA	UEL NA
Extinguishing Media Water, CO₂, Dry Chemical.			
Special Fire Fighting Procedures Spray drums to keep cool.			
Unusual Fire and Explosion Hazards Overheated drums may rupture, slippery contents.			

HMIS		NFPA			
3 HEALTH	HEALTH HAZARD	4 FIRE HAZARD	Flash Points	SPECIFIC HAZARD	REACTIVITY
0 FLAMMABILITY	4 Deadly	4	Below 73°F (Boiling pt. below 100°F)	Oxidizer OX	4 May detonate
1 REACTIVITY	X 3 Extreme danger	3	Below 73°F (Boiling pt. at/above 100°F)	X Acid ACID	3 Shock and heat may detonate
D PERSONAL PROTECTION	2 Hazardous		and/or at/above 73°F - not exceeding 100°F	Alkali ALK	2 Violent chemical change
	1 Slightly hazardous		2 Above 100°F, Not Exceeding 200°F	Corrosive COR	X 1 Unstable if heated
	0 Normal material		1 Above 200°F	Use NO WATER	0 Stable
		X	0 Will not burn	Radioactive	

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Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (*Materials to Avoid*)
Chlorine Bleach.

Hazardous Decomposition or Byproducts
Chlorine Gas.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI – Health Hazard Data

Routes(s) of Entry:	Inhalation? NO	Skin? NO	Ingestion? Not Likely
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Health Hazards (*Acute and Chronic*)

ACUTE – chemical burns to skin and eyes, blindness. INGESTION – poison if ingested, burns to mouth and throat. Acts like Hydrofluoric Acid. CHRONIC – NIA. Most severe hazard is immediate contact.

Carcinogenicity:	NTP? NIA	IARC Monographs? NIA	OSHA Regulated? NIA
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Signs and Symptoms of Exposure

SKIN and EYES – burning sensation. INGESTION – burns to mouth and throat, stomach pain.

Medical Conditions Generally Aggravated by Exposure

Open sores or wounds.

Emergency and First Aid Procedures

SKIN and EYES – thoroughly rinse with water for at least 15 minutes. Get medical attention if irritation persists. INGESTION – drink a large quantity, raw eggs or water. Get immediate medical attention.

Section VII – Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Neutralize with soda ash or bicarbonate. Wipe with rags and place in a sealed, labeled container or in a proper landfill. Thoroughly rinse the affected area with water.

Waste Disposal Method

Spilled material should be collected as above for disposal in a landfill according to Federal, State, and Local regulations. Any rinsing of the affected area should also be in accordance with Federal, State and Local regulations.

Precautions to Be Taking in Handling and Storing

Keep tightly closed when not in use.

Other Precautions

Strongly acidic.

Avoid contact with skin, eyes or clothing. Keep out of reach of children.

Section VIII - Control Measures

Respiratory Protection (*Specify Type*)

Not required.

Ventilation	Local Exhaust NA	Special NIA
	Mechanical (<i>General</i>) NIA	Other NIA

Protective Gloves

Rubber or vinyl recommended.

Eye Protection

Safety glasses, goggles recommended.

Other Protective Clothing or Equipment

Rubber or vinyl apron.

Work/Hygienic Practices

Immediately rinse spills, if on clothing remove and wash before re-use.

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