



**MATERIAL SAFETY DATA SHEET**  
For Coatings, Resins and Related Materials

V-2100

PS# 104033-1G

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*Section 1 - Identification of the Substance/Preparation and the Company*

V-2100 PS# 104033-1G Tuesday, November 27, 2001  
Praxair Surface Technologies, Inc.  
Specialty Products Business  
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Indianapolis, IN 46224  
USA  
Phone: 317/240-2650  
In Case of Emergency: 317/240-2187  
Chemtrec: 800/424-9300

*Section 2 - Composition/Information on Ingredients*

Aluminum Oxide  
weight %: 10-40  
CAS No.: 1344-28-1  
Index No.: n/a

*Hazards:*  
Xn - Harmful  
*Risks:*  
20 - Harmful by inhalation

Proprietary  
weight %: 10-65  
CAS No.: See Sec. #16  
Index No.: n/a

*Hazards:*  
n/a - n/a  
*Risks:*  
n/a - n/a

DI Water  
weight %: 25-50  
CAS No.: 7732-18-5  
Index No.: n/a

*Hazards:*  
n/a - n/a  
*Risks:*  
n/a - n/a

1344-28-1	(Aluminum Oxide)	
ACGIH/TLV:	10 mg/m3	OSHA/PEL: 10 mg/m3
See Sec. #16	(Proprietary)	
ACGIH/TLV:	n/a	OSHA/PEL: n/a
7732-18-5	(DI Water)	
ACGIH/TLV:	n/a	OSHA/PEL: n/a

**Section 3 - Hazards Identification**

SKIN CONTACT: May cause irritation and irritate an existing dermatitis. EYE CONTACT: May cause irritation, experienced as redness of the conjunctiva. Liquids can also cause irritation due to drying of solution or slurry, creating airborne dust. SWALLOWING: May cause nausea. SKIN ABSORPTION: May show evidence of irritation. INHALATION: May cause fever, cough, and increase in white blood cell counts. Breathing of dust may aggravate asthma and inflammatory or fibrotic pulmonary disease. This applies to liquids also, due to the drying of solution or slurry creating airborne dust.

**Section 4 - First-Aid Measures**

In case of SKIN contact wash thoroughly with soap and water. If contact with EYE occurs, flush thoroughly with plenty of water. If discomfort persists, seek medical attention. If INHALED, remove to fresh air and give artificial respiration if not breathing. Oxygen may be given if necessary. Call a physician. If SWALLOWED, give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.

The hazards of this material are mainly due to its sensitizing and mild irritating properties. There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

**Section 5 - Fire-Fighting Measures**

n/a

**Section 6 - Accidental Release Measures**

Wear protective clothing to protect against hazards such as overexposure to skin, eyes, and respiratory tract. Collect all material which may be released, into containers, label, and hold for proper disposal per local, state, and federal regulations.

**Section 7 - Handling and Storage**

Wear personal protective equipment to protect health if TLV is exceeded while handling product. Store material in a dry location with adequate support for the weight of the product. Use caution when lifting product cartons not to strain your back or muscles. Store materials away from ignition sources which could catch packaging materials on fire.

**Section 8 - Exposure Controls/Personal Protection**

Respiratory Protection: If there is dustiness, wear respirator selected per OSHA 1910.134, and OSHA 29 CFR 1910.252 and ANSI Z49.1.

Hand Protection: Impermeable gloves recommended, or use barrier type

cream. Prolonged contact removes oil and dries skin.

Eye Protection: When dusty use goggles per OSHA 1910.133. See ANSI Z49.1, ANSI Z87.1, & ANSI Z88.2 for helmets, face shields and goggles.

Body Protection: Wash contaminated clothing before reuse.

See section 7 for engineering controls information.

**Section 9 - Physical and Chemical Properties**

Form:	Liquid
Color:	White
Odor:	Odorless
pH Value:	n/a
Melting Range:	n/a
Boiling Range:	n/a
Flash Point:	n/a
Inflammability:	n/a
Ignition Temp:	n/a
Spontaneous Flammability:	n/a
Fire Promoting Properties:	None
Explosive Limits:	n/a
Vapor Pressure:	n/a
Density:	n/a
Bulk Density:	n/a
Water Solubility:	Insoluble
Fat Solubility:	n/a
Viscosity:	Viscous
Grain Size:	n/a

**Section 10 - Stability and Reactivity**

Avoid contact with strong acids (eg. Sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic) which can generate heat, splattering or boiling and the release of toxic fumes.

**Section 11 - Toxicological Information**

None known at this time.

**Section 12 - Ecological Information**

None known at this time.

**Section 13 - Disposal Considerations**

Collect material into containers for recycle or reuse. Do not throw in trash or place in landfill. Refer to governmental and regional requirements.

**Section 14 - Transport Information**

GGVSee/IMDG Code: n/a	UN No.: n/a	MFAG: n/a	EmS: n/a
PG:	MPO:		

PG: n/a	MPO: n/a		
GGVE/GGVS: n/a	No.: n/a	RID/ADR: n/a	No.: n/a
Warning Sign Hazard No.: n/a		Substance No.: n/a	
ADNR: n/a	Class: n/a	No.: n/a	

Alumina-Calcined or hydrated item 13090

**Section 15 - Regulatory Information**

DM 28/1/92 (Classification and labeling)

Symbols:

Xn - Harmful

Risks:

20 - Harmful by inhalation

Safety Phrases:

- 22 - Avoid breathing dust
- 36 - Wear suitable protective equipment
- 37 - Wear suitable gloves

Contains: None

When applicable, make reference to the following regulations:

- D.P.R. 303/56 (sanitary inspections)
- Ministerial dispositions 46 and 61 (aromatic amines)
- Law 136/83 (biodegradability of detergents)
- D.P.R. 175/88 (Seveso directive) Annex II, III, and IV
- D.P.R. 250/89 (labeling of detergents)

The following selected regulatory requirements may apply to this product. Not all such requirements are identified. Users of this product are solely responsible for compliance with all applicable federal, state, and local regulations.

TSCA: Toxic Substances Control Act

All ingredients in this product are listed in the TSCA Inventory.

SARA: Superfund Amendment and Reauthorization Act:

- SECTIONS 311/312: Require submission of Material Safety Data Sheets (MSDSs) and chemical inventory reporting with identification of EPA hazard classes. The hazard classes for this product are as follows:

*Immediate:* No  
*Delayed:* Yes

*Pressure:* No  
*Reactivity:* No  
*Flammable:* No

- SECTION 313: Require submission of annual reports of release of toxic chemicals that appear in 40 CFR Part 372.

None

*Section 16 - Other*

Praxair Surface Technologies, Inc. requests the users of this product to study this Material Safety Data Sheet (MSDS) and become aware of product hazards and safety information. To promote safe use of this product, a user should (1) notify it's employees, agents and contractors of the information on this MSDS and any product hazard and safety information, (2) furnish this same information to each of it's customers for the product, and (3) request such customers to notify their employees and customers for the product of the product hazards and safety information.

**PROPRIETARY INGREDIENT:** The precise composition of this mixture is a trade secret. In the event of a medical emergency caused by this ingredient, a more complete disclosure will be provided to a doctor or nurse. NFPA/HMIS rating: Health-1, Flammability-0, Reactivity-0

The opinions expressed herein are those of qualified experts within Praxair Surface Technologies, Inc. We believe that the information contained herein is current as of the date of this MSDS. Since the use of the product is not within control of Praxair Surface Technologies, Inc., it is the user's obligation to determine the conditions of safe use of the product.