

UPDATED 3/2010

ABRASIVE POWDER IN 260-

25065-1039

RYAN Equipment & Supply Inc.MATERIAL SAFETY DATA SHEET**Product/Substance Identification** Fused Aluminum Oxide

Chemical Family Metal Oxides

Trade Names/Synonyms: Alundum; alumina; Dialuminum Trioxide; Aluminum Sesquioxide; Alpha-Alumina; Beta-Alumina; Gamma-Alumina; Corundum; Alumite; Almite; Martoxin; Baikatox Polishing Chemicals (Baikowski International Co.); Tabular Alumina (ALCOA); Aluminum Oxide (AL₂O₃); Aluminum Trioxide; Linde A.B.C. (Union Carbide Corporation); D Alumina Powders (Union Carbide Corporation); 420003704; WESGO Alumina Ceramics AL₂O₃, CMC00950;

Company Name: Illinois Valley Minerals, L.L.C.
575 N 18th Mile Road
Tonica, Illinois 61370
Company Emergency Telephone No: 815.442.8402
CHEMTREC @ 800-424-9300
HMIS Number 1

Composition - Ingredients Information

Component	CAS #	OSHA PEL(1)	ACGIH TLV(2)	NIOSH
Aluminum Oxide 94 -100%	1344-28-1	15Mg/M3 (Total dust) 5Mg/M3 (resp fraction)	10 Mg/M3	(RTECS) BD120000C
Titanium Dioxide 0 - 4%	13463-67-7	15Mg/M3 (Total dust) 5Mg/M3 (resp fraction)	10 Mg/M3	(RTECS) XR2275000
Silicon Dioxide 0 - 1.3%	7631-86-9	20 mppcf (80mg/m3/%SiO ₂)	10 Mg/M3	(RTECS; V73100C REL=TWA 6Mg/M3

1. Occupation Safety and Health Administration final rule permissible exposure limits
2. American Conference of Governmental Industrial Hygienists threshold limit values.

Physical & Chemical Characteristics

Appearance and odor: White to Gray/Brown crystals or powder, Odorless.
Boiling Point: 5396F, 2980C Melting Point: 3727-3762F, 2053-2072C
Vapor Pressures: 1 mmHg @ 2158 C Vapor Density: NA
PH: NA Specific Gravity: (H₂O = 1) 3.965 @ 25 C
Molecular weight: 101.96 Evaporation Rate: NA
Solubility in water: Insoluble Volatility: <0.5%
Solvent Solubility: Slightly soluble: mineral acids, strong alkali
Practically insoluble: nonpolar organic solvents

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• SPRAY WASHERS • VIBRATORY • BLASTING • DUST COLLECTION

Fire and Explosion Hazard Data

Flash Point: NA
 Flammable Limits: NA
 Extinguishing Media: Water spray, Dry Chemical, Carbon Dioxide (CO2), Foam
 Lower/Upper Explosion Limits: NA
 Special Fire Fighter Procedures: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.
 Unusual F & E Hazards: None (Material NOT combustible)

Incompatibilities and Reactivity Data

Stability: Stable
 Incompatibility: Halo carbons, halogens, combustible materials, oxidizing materials
 Chlorinated rubber (Hot), Chlorine Trifluoride (Violent reaction & possible ignition), Ethylene Oxide (may initiate explosive polymerization), Halocarbons (Exothermic reaction above 200 C), Halocarbons + Metals (Exothermic reaction at ambient temperatures), Oxygen Difluoride (Exothermic reaction), Sodium Nitrate (may form explosive mixture), Vinyl acetate (Possible vigorous reactions)
 Hazardous Decomposition or By-Products: Thermal decomposition products, miscellaneous decomposition products
 Conditions to avoid: Generating dust

Potential Health Hazard Data

Route(s) of entry: Inhalation: Yes, may cause coughing
 Ingestion: None known, not recommended.
 Skin: Not absorbed through skin
 Eye: Yes, may irritate eyes

First Aid measures

Inhalation: Move to fresh air. If difficulty-breathing oxygen may be administered. Seek medical attention, if needed.
 Ingestion: Seek medical attention
 Skin contact: Wash exposed areas with soap and water. If irritation persists, seek medical attention
 Eye contact: Flush with water. If irritation persists, seek medical attention

Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Sweep, shovel or vacuum materials
 Limit exposure to dust
 Waste Disposal method: Comply with all state, federal and local regulations
 Precautions to be taken in handling and storing: Limit generation of dust.
 Keep separate from incompatible substances.

Control Measures

Respiratory Protection: As-needed. NIOSH approved dust respirator recommended for limiting exposure
 Similar respiratory protection required at concentrations above PEL
 Ventilation: Adequate local exhaust.
 Protective Gloves: As needed
 Eye Protection: Safety Goggles, as needed

Sara Title III Reporting

To the best of our knowledge, this product does not contain any substance requiring on the SARA, Title III, Section 313 list.

The information published in this Material Safety Data Sheet has been compiled from our experience, and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the user's application and for adopting necessary safety precautions. ORIGINAL 2004. MSDS REVISION 6/07. REVIEWED & APPROVED 2010

FOR DICK-BLICK

MATERIAL SAFETY DATA SHEET

PROPEL FOR
260-3

1. Product and Company Identification

Product number CP-667
 Product name BADGER PROPEL
 Effective date 03-Jun-2008
 Company information BADGER AIR-BRUSH CO.
 9128 W. BELMONT AVE.
 FRANKLIN PARK, IL 60131 United States

Company phone
 Emergency telephone US 1-866-836-8855
 Emergency telephone outside US 703-527-3887
 Version # 03
 Supersedes date 13-Nov-2007

2. Hazards Identification

Emergency overview CONTENTS UNDER PRESSURE. Aerosol. Pressurized container may explode when exposed to heat or flame. Prolonged exposure may cause chronic effects.

Potential health effects

Eyes Health injuries are not known or expected under normal use. Contact with liquefied gas may cause frostbite.

Skin Health injuries are not known or expected under normal use. Contact with liquefied gas may cause frostbite.

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

Ingestion Exposure by ingestion of an aerosol is unlikely.

Target organs Central nervous system.

Chronic effects May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage.

3. Composition / Information on Ingredients

Components	CAS #	Percent
1,1-Difluoroethane	75-37-6	> 90

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Skin contact Immediately take off all contaminated clothing. Rinse skin with water.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, get medical attention.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

5. Fire Fighting Measures

Flammable properties Containers may explode when heated. Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

Suitable extinguishing media Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Protection of firefighters

Protective equipment and precautions for firefighters In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Cool containers with flooding quantities of water until well after fire is out.

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6. Accidental Release Measures

Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. After removal flush contaminated area thoroughly with water.

7. Handling and Storage

Handling	Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Avoid prolonged exposure.
Storage	Level 1 Aerosol. Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Do not handle or store near an open flame, heat or other sources of ignition. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Avoid exposure to long periods of sunlight. Keep out of the reach of children. Do not store, incinerate, or heat this material above 120 degrees Fahrenheit. Refrigeration recommended.

8. Exposure Controls / Personal Protection

Personal protective equipment	
Eye / face protection	Not normally needed.
Skin protection	No special protective equipment required.
Respiratory protection	No personal respiratory protective equipment normally required. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

9. Physical & Chemical Properties

Appearance	Compressed liquefied gas.
Boiling point	-13 °F (-25 °C) estimated
Color	Colorless.
Flammability (HOC)	6.3 kJ/g estimated
Flash back	No
Flash point	-58 °F (-50 °C) estimated
Form	Aerosol.
Odor	None.
pH	Not applicable
Physical state	Gas.
Pressure	60 - 70 psig @ 70F
Solubility	Partially
Specific gravity	0.9 estimated

10. Chemical Stability & Reactivity Information

Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological Information

Sensitization	Not expected to be hazardous by OSHA criteria.
Reproductive effects	Not expected to be hazardous by OSHA criteria.
Teratogenicity	Not expected to be hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity	This product has no known eco-toxicological effects.
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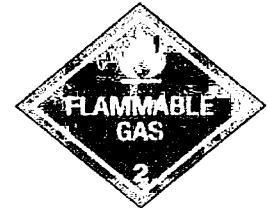
13. Disposal Considerations

Waste codes	D001: Waste Flammable material with a flash point <140 F
Disposal instructions	Contents under pressure. Do not puncture, incinerate or crush. Dispose of this material and its container at hazardous or special waste collection point. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:	
Proper shipping name	1,1-Difluoroethane
Hazard class	2.1
UN number	1030
Additional information:	
Special provisions	DOT-SP 11516



IMDG

Basic shipping requirements:	
Proper shipping name	AEROSOLS
Hazard class	2.1
UN number	1950
Additional information:	
Packaging exceptions	LTD QTY
Labels required	None



IATA

Basic shipping requirements:	
Proper shipping name	Aerosols, flammable
Hazard class	2.1
UN number	1950
Additional information:	
Packaging exceptions	LTD QTY
Labels required	None



15. Regulatory Information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable.	
Occupational Safety and Health Administration (OSHA)		
29 CFR 1910.1200 hazardous chemical	Yes	
CERCLA (Superfund) reportable quantity		
None		
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No	
Section 302 extremely hazardous substance	No	
Section 311 hazardous chemical	Yes	

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Inventory status		
Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Further information	HMIS® is a registered trade and service mark of the NPCA.
HMIS® ratings	Health: 1* Flammability: 1 Physical hazard: 0
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.
MSDS sections updated	This document has undergone significant changes and should be reviewed in its entirety.

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