



Buffing Solution

Section 1: Chemical Product and Company Information

1.1 Product Identifier

Common Name: Buffing Solution **Trade Name:** VMI PN7076

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Buffing Solution

Uses Advised Against: None identified

1.3 Details of the Supplier of the Substance or Mixture

Manufacturer/Supplier:

VenMill Industries 36 Town Forest Road Oxford, MA 01540 Tel: 508-363-0410 Fax: 508-363-0414

1.4 Emergency Telephone Number

In United States, Canada, Puerto Rico, and the U.S. Virgin Islands: 1-866-864-0210 Outside the United States: +01 or +001 508-363-0410 (Call collect if necessary)

Email: support@venmill.com **Website:** www.venmill.com

SDS Date of Preparation/Revision: July 17, 2014

Section 2: Hazards Identification

2.1 Classification of the Substance or Mixture

EU CLP Classification (1272/2008): Eye Irritation Category 2 (H319)

 $EU\ Classification\ (1999/45/EC):$ Not classified as dangerous

GHS Classification: Eye Irritation Category 2A

US OSHA Classification (29CFR1910.1200): Eye Irritation Category 2A

Refer to Section 16 for Full Text of EU Classes and R Phrases

2.2 Label Elements:



H319 Causes serious eye irritation.

Precautionary Phrases:

P264 Wash thoroughly after handling.

P280 Wear eye protection and face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical attention.

2.3 Other Hazards: None identified



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Section 3: Composition/Information on Ingredients

3.1 Substance

Component	CAS Number/ EINECS Number.	Amount	EU/GHS Classification (1272/2008)
Aluminum Oxide	1344-28-1 /	10-20%	Not dangerous /
	215-691-6		Not hazardous
	Reach Registration Number		
	01-2119529248-35-0063		
Mineral Oil	Proprietary	1-5	Aspiration Toxicity 1
			Xn R65
Aluminum Nitrate	7784-27-2 /	<3%	Eye Damage Category 1
	236-751-8		Xi R41

Refer to Section 16 for Full Text of EU/GHS Classes and R Phrases/H Statements if applicable

Section 4: First Aid Measures

4.1 Description of First Aid Measures

First Aid

Eyes: Remove contact lenses if present and easy to do. Flush eyes thoroughly with large amounts of water for several minutes, holding eyelids open. If irritation persists, seek medical attention.

Skin: Wash skin with soap and water. If irritation or other symptoms develop, seek medical attention.

Ingestion: Do not induce vomiting. Rinse mouth with water. Seek medical attention if large amount is swallowed or if you feel unwell.

Inhalation: Move person to fresh air. If breathing is difficult, have qualified personnel administer oxygen. Seek medical attention if irritation or other symptoms persist.

See Section 11 for more detailed information on health effects.

- **4.2 Most Important symptoms and effects, both acute and delayed:** Causes eye irritation. May cause skin irritation.
- **4.3 Indication of any immediate medical attention and special treatment needed:** Immediate medical attention should not be required.

Section 5: Fire Fighting Measures

- ${\bf 5.1}$ **Extinguishing Media:** Use any media that is suitable for the surrounding fire. .
- **5.2 Special Hazards Arising from the Substance or Mixture:** This product is not flammable or combustible; however, consideration must be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when machined or ground.
- **5.3 Advice for Fire-Fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires involving chemicals.

Section 6: Accidental Release Measures

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6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate respirator and protective clothing as needed to avoid eye and skin contact.

- **6.2 Environmental Precautions:** Avoid contamination of water supplies and environmental releases. Report spills as required to authorities.
- **6.3 Methods and Material for Containment and Cleaning Up:** Collect with an absorbent material and place into an appropriate container for disposal.

6.4 Reference to Other Sections:

Refer to Section 13 for disposal information and Section 8 for protective equipment.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling:

Avoid contact with the eyes, skin and clothing. Wear suitable gloves, eye protection and appropriate protective clothing according to the operation. Wash thoroughly after handling. Consider potential exposure to components of the materials or coatings being processed.

7.2 Conditions for Safe Storage, Including any Incompatibilities: No special storage required.

7.3 Specific end use(s):

Industrial uses: Abrasive

Professional uses: None identified

Section 8: Exposure Controls / Personal Protection

8.1 Control Parameters:

Chemical Name	US OEL	EU IOEL	UK OEL	German OEL	China OEL	Biological Limit Value
Aluminum Oxide	5 mg/m3 TWA (respirable), 15 mg/m3 TWA (total dust) OSHA PEL None Established ACGIH TLV	None Established	4 mg/m3 TWA (respirable) 10 mg/m3 TWA (inhalable)	1.5 mg/m3 TWA (respirable), 4 mg/m3 TWA (inhalable)	4 mg/m3 TWA	None Established
Aluminum Nitrate	5 mg/m3 TWA (respirable), 15 mg/m3 TWA (total dust) OSHA PEL 1 mg/m3 TWA ACGIH TLV (respirable)	None Established	None Established	None Established	None Established	None Established
Mineral Oil	(None				
		Established				

Note: Consider also components of base materials and coatings being processed.

DNEL:

Long term Oral Toxicity Long term Inhalation Toxicity

Aluminum oxide 6.2 mg/kg 15.6 mg/m3

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PNEC: None Established

8.2 Exposure Controls:

Recommended Monitoring Procedures: None identified.

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Personal Protective Measurers

Respiratory Protection: Not necessary unless workplace concentrations of hazardous constituents exceed the exposure limits. If the exposure levels are excessive and irritation or other symptoms are experienced, an approved respirator should be worn. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134 and ANSI Z88.2 or other applicable regulations and standards and good Industrial Hygiene practice.

Eye Protection: Use safety glasses with side shields or goggles.

Skin Protection: Protective gloves recommended to avoid skin abrasion when handling. Wear protective clothing as

required to avoid skin contact when handling.

Other protection: Hearing protection recommended if operation is noisy.

Section 9: Physical and Chemical Properties

9.1 Information on basic Physical and Chemical Properties:

Appearance and Odor: Blue liquid, mild oily odor.

Solubility in Water:	Completely	Boiling Point:	100°C (212°F) (water)
Odor Threshold:	Not applicable	Partition Coefficient:	Not applicable
pH:	5-7	Melting Point:	0°C (32°F) (water)
			2050 °C (3722°F) (aluminum oxide)
Specific Gravity:	1.17@25°C	Vapor Density:	Not available
Evaporation Rate:	Not available	Vapor Pressure:	Not available
Flammability(solid/gas):	Not applicable	Flash Point:	Not applicable
Explosive Limits:	Not applicable	Autoignition Temperature:	Not applicable
Decomposition	Not applicable	Viscosity:	Not available
Temperature:			
Explosive Properties:	None	Oxidizing Properties:	None

9.2 Other Information: None

Section 10: Stability and Reactivity

10.1 Reactivity: Not reactive under normal conditions of use and storage.

10.2 Chemical Stability: Stable.

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10.3 Possibility of Hazardous Reactions: None known.

10.4 Conditions to Avoid: None known.

10.5 Incompatible Materials: Strong bases and oxidizing agents.

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10.6 Hazardous Decomposition Products: Thermal decomposition may produce carbon, aluminum and nitrogen oxides.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects:

Potential Health Hazards

Inhalation: Inhalation of mists may cause mild irritation to the nose, throat and upper respiratory tract.

Skin Contact: May cause abrasive skin irritation.

Eye Contact: May cause irritation with redness and tearing.

Ingestion: Not toxic. Swallowing may cause gastrointestinal disturbances.

Chronic Health Effects: None known.

Acute Toxicity Values:

Aluminum Oxide: LD50 Oral rat >10000 mg/kg; LC50 Inhalation rat >2.3 mg/L/4 hr

Aluminum Nitrate: Oral rat LD50 3622 mg/kg

Mineral Oil:

Skin corrosion/irritation: None of the components have been shown to cause skin irritation in animal studies. Prolonged skin contact may result in abrasive injury.

Eye damage/ irritation: Aluminum nitrate has been shown to cause irreversible eye damage in rabbit eyes. This product is expected to cause eye irritation.

Respiratory Irritation: No chemical irritation expected.

Skin Sensitization: Not expected to cause skin sensitization based on human experience.

Respiratory Sensitization: Not expected to be a respiratory sensitizer based on human experience.

Germ Cell Mutagenicity: None of the components have not been shown to cause mutagenic activity.

Carcinogenicity: None of the components are listed as a carcinogen by ACGIH, IARC, NTP, OSHA or the EU CLP.

Developmental / Reproductive Toxicity: No specific data is available; however, this product is not expected to present a risk of adverse reproductive or developmental toxicity.

Specific Target Organ Toxicity (Single Exposure): No specific data is available.

Specific Target Organ Toxicity (Repeated Exposure): Recent studies of alumina refinery employees indicate that current exposures to aluminum compounds are not associated with significant adverse respiratory effects. The small changes in pulmonary functions parameters and respiratory symptoms observed were likely due to exposure to irritants and were not considered clinically significant.

Section 12: Ecological Information

12.1 Toxicity:

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Aluminum oxide: NOEC 96 hr Salmo trutta >100 mg/L; NOEC 48 hr daphnia magna >100 mg/L; NOEC 72 hr Selenastrum capricornutum >100 mg/L

Aluminum Nitrate: 96 hr LC50 Danio rerio >= 1000 mg/L; 48 hr EC50 daphnia magna 47.5 mg/L; 72 he EC50

Pseudokirchnerella subcapitata 14 mg/L (structurally similar chemical)

12.2 Persistence and degradability: Biodegradation is not applicable to inorganic substances such as aluminum oxide and aluminum nitrate.

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in Soil: No data available.

12.5 Results of PVT and vPvB assessment: None required.

12.6 Other Adverse Effects: None known.

Section 13: Disposal Considerations

13.1 Waste Treatment Methods:

Dispose in accordance with all local, state and national regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations

Section 14: Transport Information

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	None	Not Regulated	None	None	
Canadian TDG	None	Not Regulated	None	None	
EU ADR/RID	None	Not Regulated	None	None	
IMDG	None	Not Regulated	None	None	
IATA/ICAO	None	Not Regulated	None	None	

14.6 Special Precautions for User: None identified

14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code: Not determined

Section 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

INTERNATIONAL INVENTORIES

US EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory or exempt.

Australia: All of the components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempt

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Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.

European Union: All the components in this product are listed on the EINECS inventory or exempt.

United States Regulations

EPA SARA Regulations:

SARA 311/312 Hazard Categories:

N – Fire Hazard

N – Sudden Release of Pressure

N – Reactivity

N – Acute Health

N – Chronic Health

SARA 313: This contains the following chemicals above deminimus concentrations subject to the notification or reporting requirements of SARA 313: None

CERCLA Section 103: This product is not subject to CERCLA release reporting. Many states have more stringent spill reporting requirements. Report spills in accordance will all applicable regulations.

RCRA Status: This product, as sold, is not regulated under RCRA as a hazardous waste.

State Requirements

California Proposition 65: This product contains the following chemical known to the State of California to cause cancer: None

Connecticut Carcinogen Substances: None listed.
Florida Essential Chemical List: None listed
Maine Chemicals of High Concern: None listed
Massachusetts Right To Know List: Aluminum oxide
Michigan Critical Materials List: None listed

Minnesota Hazardous Substances: Aluminum oxide

New Jersey Right To Know Hazardous Substances List: Aluminum oxide

New York List of Hazardous Substances: None listed Ohio Extremely Hazardous Substances List: None Listed Pennsylvania RTK Hazardous Substance: Aluminum oxide Rhode Island Hazardous Substances List: None listed Washington Persistent Bioaccumulative Toxins: None listed

Wyoming Process Safety Management - Highly Hazardous Chemicals: None listed

German Regulations

Substances Hazardous to Water (WGK): 1

European Union

Regulation (EC) 1907/2006 REACH Article 59(1), Candidate List: None listed

Section 16: Other Information			
NFPA RATING (NFPA 704)	FIRE: 0	HEALTH: 2	INSTABILITY: 0
HMIS RATING	FIRE: 0	HEALTH: 2	PHYSICAL HAZARD: 0

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EU and GHS Classes and Risk Phrases and Hazard Statements for Reference (See Sections 2 and 3): None

SDS Revision History: New SDS. SDS Date of Preparation: 7/31/14 Date of last revision: New SDS

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. VenMill Industries shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.

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