SAFETY DATA SHEET
According to 1907/2006 (REACH) 1272/2008/EC (CLP) and US GHS

Revision: 03-20-2021

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

GHS Product Identifier: See Product Identifier Above
Chemical Name: Mixture (White Aluminum Oxide)
Trade Name: See Product Identifier
CAS No.: 1344-28-1
EINECS No.: 215-691-6
REACH Registration No.: 01-2119529248-35-0043

1.2 Relevant Identified Uses of the Substance Or Mixture And Uses Advised Against Application of the Product component

1.3 Details of the Supplier of the Safety Data Sheet

Company Identification: Airbrasive Jet Technologies, LLC
Address: 3461 South Clinton Avenue
South Plainfield, NJ 07080
Telephone: 732-529-6225
Email: support@airbrasive.com

1.4 Emergency Telephone Number

732-529-6225

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

2.1.1 Classification according to Regulation (EC) No. 1272/2008 (CLP)
The product is not classified as hazardous according to the Globally Harmonized System (GHS). The product is not classified as hazardous to OSHA GHS regulation within the United States. The product is not classified as hazardous according to the CLP regulation.

Additional information: There are no other hazards not otherwise classified that have been identified. 0% of the mixture consists of components (s) of unknown policy.

2.2 Label Elements

2.2.1 Label Elements According to Regulation (EC) No. 1272/2008 (CP)
This product does not have a classification according to the CLP regulation. The product is not classified as hazardous according to OSHA GHS regulations within the United States.

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Not Regulated</th>
<th>Signal Word (s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pictogram (s)</td>
<td>Not Regulated</td>
<td></td>
</tr>
<tr>
<td>Hazard - determining components of labeling: None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazard Statement (s)</td>
<td>Not Regulated</td>
<td></td>
</tr>
<tr>
<td>NFPA ratings (scale 0-4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health = 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire= 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reactivity=0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HMIS ratings (Scale 0-4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health = 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire=0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reactivity=0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HMIS Long Term Hazard</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>None of the ingredients are listed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
CAS No. Description:
1344-28-1 aluminum oxide
Identification number(s)
EC number: 215-691-6

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures
General Information
No special measures required.
After Inhalation: Supply fresh air, consult doctor in case of complaints.
After Skin contact: Brush off loose particles from skin. Wash with soap and water. If skin
irritation is experienced, consult a doctor.
After Eye Contact: Remove contact lenses if worn. Rinse opened eye for several minutes
under running water. If symptoms persists, consult a doctor.
After Swallowing: Rinse out mouth and then drink plenty of water. Do not induce \vomiting, call
for medical help immediately.

4.2 Most Important
Symptoms And Effects
Slight irritant effect on eyes.
Both Acute And Delayed
Hazards
No further relevant information available.

4.3 Indication Of The
Immediate Medical
Attention And Special
Treatment Needed
No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media
Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.
Unsuitable Extinguishing Media: None

5.2 Special Hazards Arising
From The Substance Or
Mixture
No further relevant information

5.3 Advise for fire Fighters
Wear self-contained respiratory protective device. Wear fully protective suit.

Additional Information
No further relevant information available.
SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment And Emergency procedures
Avoid formation of dust. For large spills, wear protective clothing. For large spills use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation.

6.2 Environmental Precautions
No special measure required

6.3 Methods And Materials For Containment And Cleaning Up
Pick up mechanically. Send for recovery or disposal in suitable receptacles. Dispose contaminated materials as waste according to item 13.

6.4 Reference To Other Sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precaution For safe Handling
Any unavoidable deposit of dust must be regularly removed. Use only in well ventilated areas. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water. Prevent formation of dust.

Information About Fire-and Explosion protection
No special measures required.

7.2 Conditions for Safe Storage, Including any Incompatibilities:
Requirements to be Met by Storerooms And receptacles:
Information about Storage in One Common Storage Facility:
Further Information about storage conditions:
Store away from oxidizing agents. Store away from foodstuffs. Do not store together with acids.
None.

7.3 Specific End Use (s)
No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further Data; see item 7

8.1 Control parameters

| Ingredients with limit values that require monitoring at the workplace: |
| -------------------------------------------------- | ------------------ |
| Aluminum Oxide 1344-28-1 | PEL (USA) Long-term value: 15*, 15** mg/m³ *Total dust, **Respirable fraction |
| | REL (USA) Long-term value: 10*, 5** mg/m³ As Al *Total dust, **Respirable/pyro powd./welding f. |
| | TLV (USA) Long-term value: 1* mg/m³ As Al; *as respirable fraction |
| | EL (Canada) Long-term value: 1,0 mg/m³ respirable, as Al |
| | EV (Canada) Long-term value: 10 mg/m³ total dust |

DNELs No further relevant information.
PNECs No further relevant information.
Additional Information: The lists valid during the making were used as basis.
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.2 Exposure Controls
Personal protective equipment:
General Protective and hygienic measures:

<table>
<thead>
<tr>
<th>8.2 Exposure Controls</th>
<th>8.2.2 Personal Protective Equipment:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General Protective and Hygienic Measures</td>
</tr>
<tr>
<td></td>
<td>The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Avoid contact with eyes. Do not inhale dust/smoke/mist. Avoid close or long term contact with the skin. Keep away from foodstuffs, beverage and feed.</td>
</tr>
<tr>
<td></td>
<td>Respiratory Protection</td>
</tr>
<tr>
<td></td>
<td>Not required under normal condition. Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable.</td>
</tr>
<tr>
<td></td>
<td>Eye Protection</td>
</tr>
<tr>
<td></td>
<td>Wear safety glasses.</td>
</tr>
<tr>
<td></td>
<td>Protection of hands</td>
</tr>
<tr>
<td></td>
<td>Wear protective gloves</td>
</tr>
<tr>
<td></td>
<td>Body Protection</td>
</tr>
<tr>
<td></td>
<td>Not required under normal conditions of use. Protection may be required for spills</td>
</tr>
<tr>
<td>Risk management</td>
<td></td>
</tr>
<tr>
<td>Measures</td>
<td></td>
</tr>
<tr>
<td>No further relevant information available. See Section 7 for additional information</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 9: STABILITY AND REACTIVITY

9.1 Information on Basic Physical And Chemical Properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Powder</th>
<th>Color</th>
<th>According to product specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point (°C)/Freezing Point (°C)</td>
<td>Characteristic</td>
<td>Odor Threshold (ppm)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>No Data</td>
<td>Boiling Point/Boiling Range (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature (°C)</td>
<td>Not available</td>
<td>Explosive Unit Ranges</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto Ignition Temperature (°C)</td>
<td>Not available</td>
<td>Oxidizing Properties</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not available</td>
<td>Ph (Value)</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>None</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>N/A</td>
<td>Vapor pressure (mm Hg)</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>N/A</td>
<td>Density (g/ml)</td>
<td>3.88 g/cm^3</td>
</tr>
<tr>
<td>Solubility (Water)</td>
<td>Insoluble</td>
<td>Solubility (Other)</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition Coefficient (N-Octanol/Water)</td>
<td>Not available</td>
<td>Viscosity (mPa.s)</td>
<td>Not available</td>
</tr>
</tbody>
</table>

9.2 Other Information

Volatile Organic Chemical (VOC) Content—Not available
SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
10.2 Chemical Stability
   Thermal Decomposition / conditions: No decomposition if used according to specification
   To be avoided:
10.3 Possibility of Hazardous Reaction: Reacts with strong acids and alkali. React with strong oxidising agents.
10.4 Conditions To Avoid: No further relevant information available.
10.5 Incompatible Materials: No further relevant information available.
10.6 Hazardous Decomposition Product (s): Possible in traces.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects
   LD/LC50 values relevant for classification: None
   Primary Iritant Effect:
   On the skin: Slight irritant effect on skin and mucous membranes.
   On the eye: Slight irritant effect on eyes.
   Sensitization: No sensitizing effects known.
   Additional Toxicological Information: The substance is not subject to classification according to the latest version of the EU lists.
   CMR effects (carcinogenity, mutagenicity, and toxicity for reproduction): No further relevant information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity: No Data
12.2 Aquatic Toxicity: No further relevant information available.
12.3 Persistence and Degradability: Inorganic product is not eliminable from water by means of biological processes.
12.4 Bioaccumulative Potential: Does not accumulate in organism.
12.5 Mobility in Soil: No further relevant information available.
   Additional ecological information:
   General notes: Generally not hazardous for water.
   Result of PBT and vPvB Assessment:
   PBT: Not applicable
   vPvB: Not applicable
12.6 Other Adverse Effect: No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods Recommendation:
   Smaller quantities can be disposed of with household waste. Contact waste processors for recycling information. The user of this material has the responsibility to dispose of unused material, residue and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
   Uncleaned Packaging Recommendations: Disposal must be made according to official regulations.
## SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Land Transportation (ADR/RID) (c) (d)</th>
<th>Land Transport (Within USA) (d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Number</td>
<td>UN Number</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Proper Shipping Name</td>
</tr>
<tr>
<td>Not classified as dangerous for transport</td>
<td>Not Classified as dangerous for transport</td>
</tr>
<tr>
<td>Transport Hazard Class (es)</td>
<td>Transport Hazard Class (es)</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Packing Group</td>
<td>Packing Group</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Hazard label (s)</td>
<td>Hazard label (s)</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Environmental hazard</td>
<td>Environmental hazard</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Special Precaution for User</td>
<td>Special Precaution for User</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sea Transport (IMDG) (c)</th>
<th>Air Transport (ICAO/IATA) (c) (d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Number</td>
<td>UN Number</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Proper Shipping Name</td>
</tr>
<tr>
<td>Not classified as dangerous for transport</td>
<td>Not Classified as dangerous for transport</td>
</tr>
<tr>
<td>Transport Hazard Class (es)</td>
<td>Transport Hazard Class (es)</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Packing Group</td>
<td>Packing Group</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Hazard label (s)</td>
<td>Hazard label (s)</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Maritime Pollutant</td>
<td>Maritime Pollutant</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Special Precaution for User</td>
<td>Special Precaution for User</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

(c) Consult with transport provider  
(d) Check relevant regulations for Special Provisions  
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## SECTION 15: REGULATORY INFORMATION

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific For The Substance or Mixture

**USA**  
SARA  
Section 355 (extremely hazardous Substance) Substance is not listed  
SARA 313 (Specific toxic Chemical listings) Substance is listed  
TSCA (Toxic Substance Control Act) Substance is listed  
Proposition 65 (California)  
Chemical known to cause cancer Substance is not listed  
Chemicals known to cause reproductive toxicity Substance is not listed  
Toxicity for females Substance is not listed  
Chemical known to cause reproductive toxicity Substance is not listed  
Toxicity for males Substance is not listed  
Chemical known to cause developmental toxicity Substance is not listed  
Carcinogenic Categories  
EPA (Environmental Protection Agency) Substance is not listed  
IARC (International Agency for Research) on Cancer Substance is not listed  
TLV (threshold Limit Value established by ACGIH) 1344-28-1 aluminum oxide A4  
MAK (German Maximum Workplace Concentration) 1344-28-1 aluminum oxide 2  
NIOSH-Ca (National Institute for Occupational Safety and Health) Canada Substance is not listed

**Canada**  
Canadian Domestic Substance List (DSL) Substance is listed  
Canadian Ingredient Disclosure list (limit 0.1%) Substance is not listed  
Canada Ingredient Disclosure list (limit 1%) Substance is listed  

**Other regulations, limitations and prohibitive regulations**  
This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.  
Substances of very high concern (SVHC) Substance is not listed  
According to REACH, Article 57

### 15.2 Chemical Safety Assessment  
A Chemical Safety Assessment has not been carried out
SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shot not establish a legally valid contractual relationship.

Additional Information:

- The accumulation of airborne dust particles may lead to health and safety risks in some case. The use of good industrial practices will mitigate this risk.
- The health risk from inhalation of dust particles vary; this is due to particle concentration, exposure length, number of exposures and type of particles inhaled. Please read Section 2, 4, 6, 7 and 8 of the SDS to understand these potential risks. Wear personal protective equipment and follow storage and handling procedures to maintain a safe workplace.
- In rare instances, combustible dusts may represent a potential explosion hazard when airborne. This hazard is often associated with organic dust such as foodstuff and coal, but may also occur with mineral products. While the majority of our products would be considered non-combustible, the overall airborne environment should be considered when determining the need for mitigation from the potential hazard. Consult recognized experts when necessary in order to determine any possible hazard.

Please read the SDS for specific information concerning these hazards, and contact us with any further questions. We appreciate your continued business.

ABBREVIATION AND ACRONYMS:

- ADR: European Agreement concerning the International Carriage of Dangerous Good by Road
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substance
- ELINCS: European List of Mortified Chemical Substances
- CAS: Chemical Abstract Service (Division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous materials Identification System (USA)
- LC50: Lethal Concentration, 50 percent
- LD50: Lethal dose, 50 percent
- WHMIS: Workplace Hazardous Materials Information System (Canada)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)