



Airbrasive Jet Technologies, LLC

Safety Data Sheet



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

Revision: 04-25-2025

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

1.1	Product Identifier	AccuBRADE -17, -27, -27e; Blend #1, #1M,#11; AP101, AP102, AP104, AP109, AP110, AP121, AP901, AP901M, AP911
	GHS Product Identifier	See Product Identifier Above
	Chemical Name	Mixture (Brown Aluminum Oxide)
	Trade Name	See Product Identifier
	CAS No.	Mixture
	EINECS No.	Mixture
	REACH Registration No.	01-2119529248-35-0043
1.2	Relevant Identified Uses of the Substance Or Mixture And Uses Advised Against	
	Identified Use(s)	Consult the supplier
	Uses Advised Against	Users are recommended to seek further advice
1.3	Details of the Supplier of the Safety Data Sheet	
	Company Identification	Airbrasive, LLC
	Address	200 School Alley Suite 7 Green Lane, PA 18054
	Telephone	866-272-0540
	Email	info@airbrasive.com
1.4	Emergency Telephone Number	866-272-0540

SECTION 2: HAZARD 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 according OSHA GHS regulation within the United States.	
	The product is not classified as hazardous according to the CLP regulation.	
	Additional Information	
	Product has less than 0.1% inhalable dust containing known and/or suspect carcinogens per established guidelines, and is therefore not classifiable as a carcinogen.	
	There are no other hazards not otherwise classified that have been identified	
	0% of the mixture consists of component (s) of unknown toxicity.	
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	
	Hazard	Not Regulated
	Pictogram (s)	Signal Not Regulated
	Hazard - determining components of labeling:	Word (s)
	Hazard	None
	Hazard	Not Regulated
	Statement (s)	
	NFPA ratings (scale 0 - 4)	Health=0 Fire = 0 Reactivity = 0
		
	HMIS - ratings (scale 0 - 4)	Health = 0 Fire = 0 Reactivity = 0
		
	HMIS Long Term Health Hazard Substance	None of the ingredients are listed

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2.3 Other Hazards
Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures
Description: Mixture of substance listed below with non hazardous additions

Hazardous Ingredients	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Hazard Statement (s)
Aluminum Oxide	>90	1344-28-1	215-691-6	NA	None Substance with a Community workplace Exposure limit
Silica, fused	<5	7631-86-9	231-545-4	NA	None Substance with a Community workpl ^{ace} Exposure limit
Titanium Dioxide	<5	13463-67-7	236-675-5	NA	None Substance with a Community workplace Exposure limit
Diiron trioxide/iron (III) Oxide	<5	1309-37-1	215-168-2	NA	None Substance with a Community workpl ^{ace} Exposure limit

Dangerous Components (Alternative Classification):

Hazardous Ingredients	%W/W	CAS No.	Hazard Pictogram(s) and Hazard Statement (s)
Titanium Dioxide	<5	13463-67-7	3.6/2 H351

3.2 Additional Information: Non-classification as a carcinogen is based on non-inhalable form of product. IARC listing for Titanium dioxide note that substance must be respirable.

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 form 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 Both Acute And Delayed Hazards
Slight irritant effect on eyes.
No further relevant information available

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

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SECTION 5: FIRE-FIGHTING MEASURES

5.1	Extinguishing Media Suitable Extinguishing Media: Use fire extinguishing method 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 measures 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: No special requirements Information about Storage in One Common Storage Facility: Store away from oxidizing agents. Store away from foodstuffs. Do not store together with acids. Further Information about storage conditions: None.
7.3	Specific End Use(s) No further relevant information available.

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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/m ³ *Total dust, **Respirable fraction
		REL (USA)	Long-term value: 10*, 5** mg/m ³ As Al: *Total dust, ** Respirable/pyro powd./welding f.
		TLV (USA)	Long-term value: 1* mg/m ³ As Al: *respirable fraction
		EL (Canada)	Long-term value: 1.0 mg/m ³ Respirable as Al
		EV (Canada)	Long-term value: 10 mg/m ³ Total dust
Silica fused	60676-86-0	PEL (USA)	See Quartz listing
		TLV (USA)	TLV withdrawn
		EV (Canada)	Long-term value: 0.1 mg/m ³ Respirable
Titanium dioxide	13463-67-7	PEL (USA)	Long-term value: 15* mg/m ³ *Total dust
		REL (USA)	See Pocket Guide App A
		TLV (USA)	Long-term value: 10 mg/m ³ Withdrawn from NIC
		EL (Canada)	Long-term value: 10 * 3** mg/m ³ *Total Dust; **Respirable fraction; IARC 2B
		EV (Canada)	Long-term value: 10 mg/m ³ Total dust
Diiron trioxide / iron (III) oxide	1309-37-1	PEL (USA)	Long-term value: 10* 15** 5*** mg/m ³ *Fume Rouge; **Total dust; ***respirable
		REL (USA)	Long-term value: 5 mg/m ³ Dust and fume as Fe
		TLV (USA)	Long-term value: 5* mg/m ³ *as respirable fraction
		EL (Canada)	Short-term value: 10** mg/m ³ Long-term value: 5* 10*** 3**** mg/m ³ *Dust and fume; **fume; Rouge, ***total dust, ****respirable
		EV (Canada)	Long-term value: 5* 10** mg/m ³ *respirable, including Rouge **Total dust

Additional information: The lists valid during the making were used as basis.

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8.2 Exposure Control		
Personal Protective Equipment:		
General protective and hygienic measures:		
8.2	Exposure Controls	
8.2.2	Personal Protective Equipment:	
	General Protective and Hygienic Measures	The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Immediately remove all soiled and contaminated clothing. Keep away from foodstuff, beverages and feed.
	Respiratory Protection	Use suitable respiratory protective device when high concentrations are present for spills, respiratory protection may be advisable.
	Eye Protection	Wear safety glasses.
	Protection of hands	Wear Protective gloves
	Body Protection	Not required under normal conditions of use. Protection may be required for spills
	Limitation and supervision of exposure into the environment	No further relevant information available
	Risk management Measures	No further relevant information available. See Section 7 for additional information

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on Basic Physical And Chemical Properties			
	Appearance	Solid granular product	Color	Black or Green
	Odor	Odorless	Odor Threshold (ppm)	Not available
	Melting Point (°C)/		Boiling Point/Boiling Range (°C)	Not available
	Freezing Point (°C)	Not available	Explosive Unit Ranges	Not available
	Flash Point (°C)	No Data		
	Auto Ignition			
	Temperature (°C)	Not available	Decomposition Temperature (°C)	4892°F/2700°C
	Explosive Properties	None	Oxidizing Properties	Not available
	Flammability (Solid, Gas)	Not available	Ph (Value)	Not available
	Evaporation Rate	N/A	Vapor pressure (mm Hg)	Not available
	Vapor Density (Air=1)	N/A	Density (g/ml)	Not available
	Solubility (Water)	Insoluble	Solubility (Other)	Not available
	Partition Coefficient (N-Octanol/Water)	Not available	Viscosity (mPa.5)	Not available
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 To be avoided:	No decomposition if used according to specification
10.3	Possibility of Hazardous Reaction	As the product is supplies it is not capable of dust explosion: However enrichment with fine dust causes risk of dust explosion.
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)	Toxic metal oxide smoke.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

LD/LC50 values relevant for classification:

13463-67-7 titanium dioxide

Oral	LD50	>20000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 6.82 mg/l (rat)

Primary Irritant Effect:

On the skin:

Slight irritant effect on skin and mucous membrane

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 (carcinogenicity, Mutagenicity, and toxicity for Reproduction):

Product is in non-inhalable form and is non classifiable as a carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	No Data
	Aquatic Toxicity	No further relevant information available
12.2	Persistence and Degradability	Inorganic product is not eliminable from water by means of Biological processes.
12.3	Bioaccumulative Potential	Does not accumulate in organism
12.4	Mobility in Soil	No further relevant information available
	Additional ecological information:	
	General notes:	Generally not hazardous for water. Due to consistence and the low water solubility of the product a bioavailability is not probable. Due to available data on eliminability /decomposition and bioaccumulation potential a prolonged damaged of the environment is unlikely.
12.5	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	Contact manufacturer for recycling information. Contact waste processors for recycling information. On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.
	Uncleaned Packaging: Recommendations:	Packaging may be reused or recycled after cleaning. Disposal must be made according to official regulations.

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SECTION 14: TRANSPORT INFORMATION

Land Transportation (ADR/RID) (c) (d)

UN Number None
 Proper Shipping Name Not classified as Dangerous transport
 Transport Hazard Class (es) None
 Packing Group None
 Hazard label (s) None
 Environmental hazard None
 Special Precaution for User None

Land Transport (Within USA) (d)

UN Number None
 Proper Shipping Name Not Classified as dangerous for transport
 Transport Hazard Class (es) None
 Packing Group None
 Hazard label (s) None
 Environmental hazard None
 Special Precaution for User None

Sea Transport (IMDG) (c)

UN Number None
 Proper Shipping Name Not classified as Dangerous transport
 Transport Hazard Class (es) None
 Packing Group None
 Hazard label (s) None
 Maritime Pollutant None
 Special Precaution for User None

Air Transport (ICAO/IATA) (c) (d)

UN Number None
 Proper Shipping Name Not Classified as dangerous for transport
 Transport Hazard Class (es) None
 Packing Group None
 Hazard label (s) None
 Maritime Pollutant None
 Special Precaution for User None

- (b)
- (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)	None of the ingredients are listed
SARA 313 (Specific toxic Chemical listings)	1344-28-1 aluminum oxide
TSCA (Toxic Substance Control Act)	All ingredients are listed
Proposition 65(California)	
Chemical known to cause cancer	References to chemical components listed below are based on Unbound respirable particles and are not generally applicable to products as supplied.
	13463-67-7 titanium dioxide
Chemicals known to cause reproductive Toxicity for female	None of the ingredients are listed
Chemical known to cause reproductive Toxicity for male	None of the ingredients are listed
Chemical known to cause developmental toxicity	None of the ingredients are listed
Carcinogenic Categories	
EPA (Environmental Protection Agency)	None of the ingredients are listed
IARC (International Agency for Research) on Cancer	60676-86-0 silica, fused 3
	13463-67-7 titanium dioxide 2B
	1309-37-1 diiron trioxide)(Iron (III) oxide 3
TLV (threshold Limit Value established by ACGIH)	1344-28-1 Aluminum Oxide A4
	13463-67-7 Titanium oxide A4
	1309-37-1 diiron trioxide / Iron (III) oxide A4
MAK (German Maximum Workplace Concentration)	1344-28-1 aluminum oxide 2
	13463-67-7 titanium dioxide 3A
NiOSH-Ca (National Institute for Occupational Safety and Health) Canada	13463-67-7 titanium dioxide

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Cont. 15.1

Canadian Domestic Substance List (DSL)
Canadian Ingredient Disclosure list (limit 0.1%)
Canada Ingredient Disclosure list (limit 1%)

All ingredients are listed.
Non of the ingredients are listed
1344-28-1 aluminum oxide
60676-86-0 silica, fused
1309-37-1 diiron trioxide /iron (III) oxide

Other regulations, limitations and prohibitive regulations
Substances of very high concern (SVHC)
According to REACH, Article 57

None of the ingredients are listed.

15.2 Chemical Safety Assessment

A chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall 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	Accord European sur le transport des marchandises dangereuses par route (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