SPEED BEAD PART 6703

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

1 IDENTIFICATION

Product Identifier:	Speed Bead
Synonyms:	Brown Fused Aluminum Oxide and Glass, Brown Alox and Glass, Alumina and Glass Beads
CAS No. / EC No.:	1344-28-1 / 215-691-6, 65997-17-3 / 266-046-0
Recommended Use:	Product is intended for use as an abrasive blasting material.
Use(s) Advised Against:	Contact manufacturer if using product outside of recommended use cases.
Distributor:	Skat Blast Inc. 7077 State Route 446 Canfield, OH 44406 Ph: 330-533-9477
Emergency Telephone No.:	CHEMTREC (US): 1-800-424-9300 All other regions contact your local poison control center or local chemical authority.

2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture:

Classification has been determined in accordance with United States OSHA HCS (29 CFR 1910.1200) requirements and any corresponding Globally Harmonized System (GHS) classification parameters.

Additional Information:

LABEL ELEMENTS

GHS Label Elements

Carcinogenicity *Category 2*

Pictograms:

Signal Word: Warning

Hazard-determining components of labeling:	See Section 3 for more information.	
Hazard Statements:	H351	Suspected of causing cancer via inhalation.
Precautionary Statements:	P102	Keep out of reach of children.
	P203	Obtain, read and follow all safety instructions before use.
	P280	Wear face protection when inhalation of dust is possible.
	P318	If exposed or concerned, get medical advice.
	P405	Store locked up.
	P501	Dispose of contents in accordance with all local/regional/national/international regulations. Do not burn or pulverize for disposal.

HMIS Ratings (scale 0-4):

Health:	*0
Fire:	0
Reactivity:	0
PPE:	t

NFPA Ratings (scale 0-4):

Health:	0
Fire:	0
Reactivity:	0
Specific Hazard:	N/A

Legend

4 - Extreme
3 - Serious
2 - Moderate
1 - Slight
0 - Minimal

** Indicates a long-term health hazard from repeated or prolonged exposures*

Long-Term Health Hazard: Titanium Dioxide (TiO_2), CAS# 13463-67-7

Additional Information: Product form is granules or powder. Titanium dioxide is suspected of being carcinogenic to humans based on animal studies, via inhalation of respirable (< 10 µm in diameter) particles. Titanium dioxide is generally not present in this product as free particles and most particles will not be of respirable size. Per-batch data on percentage of respirable titanium dioxide is not, however, readily available and thus the full percentage of titanium dioxide is included in the Section 3 information on product composition.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization: Mixture

Physical form: Granules

Identifier	Chemical Name/Description	GHS Hazard(s)	Wt. %
CAS No.: 65997-17-3 EC No.: 266-046-0	Glass Beads	N/A	20 - 90
CAS No.: 1344-28-1 EC No.: 215-691-6	Aluminum Oxide, Al_2O_3	N/A	10 - 80
CAS No.: 13463-67-7 EC No.: 236-675-5	Titanium Dioxide, TiO_2	Carcinogenicity, Cat. 2	< 4

Traces of other mineral components may be present as contaminants. Trace mineral contaminants may be hazardous on their own but present in concentrations below reporting and hazard classification levels. Classified hazard categories for this product are based on repeated and/or long-term exposures to respirable particles of the product.

4 FIRST AID MEASURES

General Information:	No special measures required.
After inhalation:	Supply fresh air; get medical advice if symptoms occur. Provide oxygen treatment if affected person has difficulty breathing.
After contact with eyes:	Not considered to be an eye irritant. Irrigate with large quantities of water for at least 10 minutes. Remove contact lenses if present and easy to do so. Seek medical help if persistent irritation or tissue damage occur.
After skin contact:	Wash with plenty of soap and water. Skin irritation or sensitization is not anticipated to be a common symptom of exposure. If skin symptoms occur and persist, get medical help.
After swallowing:	Rinse mouth with water and seek medical advice. Material is not intended for ingestion: preparation and consumption of food or drink should not be allowed in work areas.
Key symptoms and effects, both acute and delayed:	Coughing or other difficulty breathing may occur after severe or prolonged inhalation of product dusts. Pain, difficulty breathing, or other symptoms may be felt after long-term exposures. Product dusts may cause cancer via long-term inhalation exposure.

Indication(s) of need for immediate medical help:	Seek immediate medical help if any of the above key symptoms occur. Cancer may lead to fatigue/exhaustion or unintentional changes in body weight: seek immediate medical advice if these symptoms occur.

5 FIREFIGHTING MEASURES

Flash point: N/A	**UEL:** N/A	**LEL:** N/A
Auto-ignition temperature:	Not applicable to this product.	
Flammability:	Not flammable or combustible. Product will not burn.	
Extinguishing media:	Use any suitable media for the environment in which the fire or conflagration is taking place. Be mindful of any surrounding flammable/combustible materials. High volume water jet not preferred due to potential to spread fire.	
Hazardous decomposition products:	Metal oxide smoke may be produced if product material is adjacent to or within an active conflagration.	
Firefighting instructions:	Firefighters and other involved individuals should wear self-contained breathing apparatuses and be aware of any flammable/combustible substances involved in the fire.	

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:	Avoid dust inhalation; observe occupational exposure limits detailed in Section 8. If presence of product dust is expected, wear a NIOSH-approved N95 particulate mask or other appropriate dust-blocking respirator. Per general best practices: wear protective clothing, ensure adequate ventilation, avoid dust formation, and avoid contact with the eyes and skin where possible.
Environmental precautions:	Prevent from entering drains or water courses. Do not allow to enter soil.
Methods and material for containment and cleanup:	Avoid formation of dust. Pick up mechanically. Ensure adequate ventilation. Store in suitable receptables for recovery or disposal. Verify compliance with local regulations for waste disposal.
Other information:	See Section 7 for additional information on safe handling. See Section 8 for additional information on personal protective equipment. See Section 13 for additional information on disposal.

7 HANDLING AND STORAGE

Precautions for safe handling:	Prevent dust formation. Any deposit of dust that cannot be prevented should be removed regularly. Do not dry clean dust-covered objects and floors: wash thoroughly with plenty of water. Use only in well-ventilated areas. Wear personal protective clothing and wash hands/face after handling product material.
Information about protection against explosions and fires:	No special measures required.
Requirements for storerooms and receptacles:	Storage should occur in cool, dry, well-ventilated areas.

Information regarding storage in common storage facility:	No special measures required.
Further information about storage conditions:	No additional information available.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Applicable component occupational exposure limits requiring monitoring at the workplace:

Nuisance Dusts

OSHA PEL, TWA (8-hr): 15 mg/m^3 (total), 5 mg/m^3 (respirable)

California: CAL/OSHA PEL, TWA (8-hr): 10 mg/m^3 (total), 5 mg/m^3 (respirable)

Aluminum Oxide, Al_2O_3 (CAS# 1344-28-1)

OSHA PEL, TWA (8-hr): 15 mg/m^3 (total), 5 mg/m^3 (respirable)

ACGIH TLV, TWA (8-hr): 1 mg/m^3 (respirable particulate matter)

California: CAL/OSHA PEL, TWA (8-hr): 10 mg/m^3 (total), 5 mg/m^3 (respirable)

Titanium Dioxide (TiO_2), CAS# 13463-67-7

OSHA PEL, TWA (8-hr): 15 mg/m^3 (total)

ACGIH TLV, TWA (8-hr): Nanoscale: 0.2 mg/m^3 (respirable particulate matter)

Finescale: 2.5 mg/m^3 (respirable particulate matter)

California: CAL/OSHA PEL, TWA (8-hr): 10 mg/m^3 (total), 5 mg/m^3 (respirable)

Additional limit information:	NIOSH considers Titanium Dioxide to be a potential occupation carcinogen: reduce exposure to lowest feasible concentration (LOQ 0.2 mg/m^3).
Engineering controls:	Product should be used in a blast cabinet containing dust collectors or in a closed-circuit blast cleaning system. If a blast room is used, it must have a dust extraction system to maintain dust levels below occupational exposure limits. For optimal ventilation, a minimum of 75 air changes per hour should occur.
Risk management:	No special measures required.
PERSONAL PROTECTIVE EQUIPMENT	
Breathing equipment:	Blasting operatives should use a Type CE abrasive-blast supplied-air respirator in accordance with OSHA/NIOSH requirements. All other individuals should wear a NIOSH N95-type particulate mask if dust exposure is anticipated.
Hand protection:	Wear protective gloves to ensure against mechanical hazards.
Eye protection:	Wear safety glasses or goggles to protect against eye exposure.
Body protection:	Wear hearing protection in blasting environments or other high-noise environments in accordance with OSHA/NIOSH requirements. Blasting operatives should wear heavy-duty coveralls or a purpose-designed suit.

9	PHYSICAL AND CHEMICAL PROPERTIES	
	Physical state:	Granulate or Powder mixture
	Color:	Brown and water white mixture
	Odor:	None
	Odor threshold:	No data available.
	pH:	No data available.
	Melting/Freezing point:	3,722°F (2,050°C) (Aluminum oxide) / 2,600°F (1427°C) (Glass beads)
	Initial boiling point:	No data available.
	Boiling point range:	No data available.
	Flash point:	Not applicable.
	Flammability:	Product is not flammable/combustible and will not burn.
	Upper explosive limit:	Not applicable.
	Lower explosive limit:	No applicable.
	Auto-ignition temperature:	Not applicable.
	Evaporation rate:	Not applicable.
	Vapor pressure:	Not applicable.
	Vapor density:	Not applicable.
	Relative density:	3.00 - 4.00, Water = 1.00 at 68°F (20°C)
	Water solubility:	Insoluble in water.
	Partition coefficient:	No data available.
	Kinematic viscosity:	No data available.
	Particle characteristics:	Granule or Powder size: various
10	STABILITY AND REACTIVITY	
	Thermal decomposition / conditions to be avoided:	No decomposition anticipated under standard use, transport and storage conditions. May separate into less-complex chemical constituents under extreme heat.
	Hazardous reaction potential:	No hazardous reactions anticipated.
	Incompatible materials:	Reacts with strong acids, oxidizing agents, and strong bases.
	Hazardous decomposition products:	May produce metal oxide smoke in the event of fire.
	Other Information:	No additional information available at time of document authoring.
11	TOXICOLOGICAL INFORMATION	
	Component LC_{50}/LD_{50} values relevant for classification: None	
	Probable routes of exposure:	Dust inhalation, accidental ingestion, direct skin/eye contact
	Effects on skin:	No relevant effects known
	Effects on eye:	Slight irritation may occur with direct eye contact.
	Inhalation effects:	Repeated or long-term inhalation of dusts may cause pulmonary disease.

Ingestion effects:	No relevant effects known
Sensitization effects:	No relevant effects known
Subacute/chronic toxicity:	Long-term exposure to free respirable titanium dioxide is suspected of causing cancer and tumor development in humans.
Carcinogenicity:	
NTP Listing Status:	Not listed
IARC Listing Status:	Titanium dioxide - Listed as Category 2B (possibly carcinogenic to humans)
OSHA Listing Status:	Titanium dioxide - Not regulated as a human carcinogen; material has been shown to be carcinogenic to rats in rat studies.
Cell mutagenicity:	No data available.
Reproductive effects:	No data available.

12 ECOLOGICAL INFORMATION

Aquatic toxicity:	Product not determined to be toxic to the aquatic environment.
Persistence and degradability:	Inorganic product, not eliminable from water by biological means.
Results of PBT assessment:	No data available
Results of vPvB assessment:	No data available
LogK_{ow} , BCF values:	No data available
Bioaccumulative potential:	No significant accumulation in organisms.
Mobility in soil:	No relevant information available at time of document authoring.
Other adverse effects:	No relevant information available at time of document authoring.
Additional information:	No relevant information available at time of document authoring.

13 DISPOSAL CONSIDERATION

Waste treatment methods:	The product must be disposed of in accordance with local, regional, and national regulations. Do not dispose of in sewage or other liquid waste systems. Spent blasting media should be collected in a dry drum, free of contamination or other garbage/refuse. Avoid escape of dust or small particulates. Spent blasting media will likely contain material removed from blasting target. Obtain a representative sample of the waste blasting media and conduct Toxicity Characteristic Leaching Procedure testing or otherwise determine its hazard status. If hazardous, coordinate with an organization certified in hazardous waste removal. If non-hazardous, waste material can typically be disposed of in a sanitary landfill using standard solid waste disposal procedures. Before disposing of waste material as non-hazardous, inform the disposal site of the possible presence of free Titanium dioxide to ensure that there are no additional precautions or regulations that must be followed.
Contaminated packaging:	Contaminated packaging should be scrubbed clean prior to disposal if possible. Else follow all applicable local, state, and federal regulations for container disposal.
Additional information:	Refer to Section 8 for exposure controls, personal protective equipment

14 TRANSPORT INFORMATION

DOT (US)	Not regulated for transport
IMDG/IMO	Not regulated for transport
IATA	Not regulated for transport
General Information:	No additional information.

15 REGULATORY INFORMATION

SARA 355 Components:	Not listed
SARA 313 Components:	Not listed
TSCA listing status:	Listed
Determinations of carcinogenic status:	
California Prop. 65:	Titanium dioxide (CAS No. 13463-67-7) is known to the state of California to cause cancer when present as airborne, unbound particles of respirable size.
EPA:	No component listed
IARC:	Titanium dioxide - Listed as Category 2B (possibly carcinogenic to humans)
ACGIH:	Titanium dioxide - Listed as Category A3 (confirmed animal carcinogen with unknown relevance to humans)
NIOSH:	Titanium dioxide - Listed as a potential occupational carcinogen
Other state right-to-know listings:	Minnesota: Titanium Dioxide New Jersey: Aluminum Oxide, Titanium Dioxide New York City: Aluminum Oxide, Titanium Dioxide Rhode Island: Aluminum Oxide, Titanium Dioxide
Information pertaining to Canadian regulations:	
Canadian Domestic Substances List:	All product components are listed.
Other regulations, limitations, and prohibitive regulations:	This product has been classified in accordance with hazard criteria of the Hazardous Products Regulations, SOR/2015-17.

16 OTHER INFORMATION

All information provided is based on manufacturer's present knowledge and understanding of this product and any applicable regulations and data. Any information provided does not constitute a guarantee for specific product features nor does it establish a legally valid contractual relationship.

Abbreviations and acronyms:	
ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
DOT (US)	Department of Transportation (United States)
EPA	Environmental Protection Agency (United States)
HMIS	Hazardous Materials Identification System (United States)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG/IMO	International Maritime Dangerous Goods/International Maritime Organization

NFPA	National Fire Protection Association (United States)
NIOSH	National Institute for Occupational Safety and Health (United States)
NTP	National Toxicology Program (United States)
OSHA	Occupational Safety and Health Administration (United States)
PEL	Permissible Exposure Limit
SARA	Superfund Amendment and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time-Weighted Average

NOTICE: This safety data sheet complements technical data sheets but does not replace them. The information contained within is based on our present knowledge of the product on the document revision date. All information provided is done so in good faith. Product users should be warned about the risks associated with using the product for a different purpose than that for which it was intended as stated within this safety data sheet and any associated technical data sheets. Manufacturer does not provide advice or indicate qualification for giving advice for uses outside of stated intended use cases. Statements regarding applicable regulations are provided to help users meet their regulatory obligations when using this product. Statements are not exhaustive of all potential regulatory parameters a user may be bound by and does not exempt users from ensuring their own compliance with applicable regulations regarding handling, use, and storage of the product, for which they are solely responsible.

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