

Ames® Reflective Beads™

Product Name (as used on Label and List)

Revision Date: 2-15-18



GHS Safety Data Sheets (SDS)

SECTION 1 – IDENTIFICATION	
PRODUCT NAME	Ames® Reflective Beads™
OTHER MEANS OF IDENTIFICATION	GB
END USE	Glass beads for industrial, commercial and other business uses
MANUFACTURER	Ames Research Laboratories, Inc. Salem, Oregon 97302 Corporate Office: 1891 16 th Street SE Salem, Oregon 97302-1436 (503) 588-3330
EMERGENCY PHONE NUMBER	1-888-345-0809 or Chemtrec 1-800-424-9300

SECTION 2 – HAZARD IDENTIFICATION	
CLASSIFICATION	Acute Toxicity, Inhalation – 5:
SIGNAL WORD	WARNING
HAZARD STATEMENT	May be harmful if inhaled (H333)
HAZARD PICTOGRAMS	N.A. – No Symbol
PRECAUTIONARY STATEMENT(S)	Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapor/spray. Use only outdoors or in well-ventilated area. IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. (P304+P312)
HAZARDS NOT OTHERWISE CLASSIFIED	N.A.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS		
SUBSTANCE / MIXTURE	Glass beads	
OTHER MEANS OF IDENTIFICATION	N. A.	
CAS # / IDENTIFIERS		
INGREDIENT NAME	% BY WEIGHT	CAS NUMBER
Glass Oxide	100 %	65997-17-3



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SECTION 4 – FIRST AID MEASURES	
DESCRIPTION OF NECESSARY FIRST AID MEASURES	
EYE CONTACT	N/A
INHALATION	Remove affected individual(s) to fresh air. Get medical attention from a physician if breathing difficulty develops.
SKIN CONTACT	N/A
INGESTION	N/A
MOST IMPORTANT SYMPTOMS / EFFECTS, ACUTE AND DELAYED	
EYE CONTACT	N/A
INHALATION	If dusting occurs, prolonged inhalation of dust may cause respiratory tract and lung irritation.
SKIN CONTACT	N/A
INGESTION	N/A
INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDS, IF NECESSARY	
EYE CONTACT	N/A
INHALATION	N/A
SKIN CONTACT	N/A
INGESTION	N/A

SECTION 5 – FIRE FIGHTING MEASURES	
EXTINGUISHING MEDIA: SUITABLE MEDIA	N/A
EXTINGUISHING MEDIA: UNSUITABLE MEDIA	N/A
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	N/A
SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS	N/A
SPECIAL EQUIPMENT FOR FIRE-FIGHTERS	N/A

SECTION 6 – ACCIDENTAL RELEASE MEASURES	
PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	
FOR NON-EMERGENCY PERSONNEL	Spilled material can cause slippery conditions.
FOR EMERGENCY PERSONNEL	N/A
ENVIRONMENTAL PRECAUTIONS	Avoid runoff into storm sewers and ditches that lead to waterways. This product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Consult your state or local authorities for proper disposal in the event that more restrictive requirements apply.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	

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LARGE SPILLS	Sweep or vacuum immediately.
SMALL SPILLS	Sweep or vacuum immediately.

SECTION 7 – HANDLING AND STORAGE	
PRECAUTIONS FOR SAFE HANDLING	
PROTECTIVE MEASURES	Use in a well ventilated area. Keep out of reach of children. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the respective exposure limits. Use goggles and gloves.
GENERAL HYGIENE	Do not take internally. Wash thoroughly after handling.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	Keep container closed when not in use.

SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION				
OCCUPATIONAL EXPOSURE LIMITS				
	OSHA PEL 8-HR TWA	OSHA PEL STEL/Ceiling	ACGIH TLV-TWA	ACGIH TLV- STEL
Glass Oxide	15 mg/m ³ (total dust) 5 mg/m ³ (respirable)	N.E.	10 mg/m ³ (total dust) 3 mg/m ³ (respirable)	N.E.
CONTROLS				
ENGINEERING CONTROLS	Good general ventilation should be sufficient for most conditions.			
PERSONAL PROTECTIVE EQUIPMENT	Wear safety glasses with side shields or safety goggles. For most conditions, no respiratory protection should be needed; however, wear an approved air-purifying respirator if dust is generated.			

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES	
APPEARANCE	
PHYSICAL STATE	Solid reflective glass bead
COLOR	Clear
ODOR	N/A
ODOR THRESHOLD	N.D.
pH	N/A
MELTING POINT	N/A
BOILING POINT	N/A
FREEZING POINT	N/A
FLASH POINT	N.A.

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EVAPORATION RATE	N/A
FLAMMABILITY (SOLID, GAS)	N/A
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	N.A.
VAPOR PRESSURE	N/A
VAPOR DENSITY	N/A
RELATIVE DENSITY	N/A
SOLUBILITY(IES)	N/A
PARTITION COEFFICIENT: N-OCTANOL / WATER	N/A
AUTO-IGNITION TEMPERATURE	N.A.
DECOMPOSITION TEMPERATURE	N/A
VISOCITY	N/A
SPECIFIC GRAVITY	N/A

SECTION 10 – STABILITY AND REACTIVITY	
REACTIVITY	This product is not reactive under normal conditions.
CHEMICAL STABILITY	This product is stable under normal storage conditions and during its intended use.
POSSIBILITY OF HAZARDOUS REACTION	Will not occur under normal conditions.
CONDITIONS TO AVOID	N/A
INCOMPATIBLE MATERIALS	N/A
HAZARDOUS DECOMPOSITION PRODUCTS	N/A

SECTION 11 – TOXICOLOGICAL INFORMATION	
INFORMATION ON TOXICOLOGICAL EFFECTS	
ACUTE TOXICITY	May cause slight irritation to respiratory tract.
IRRATION / CORROSION	May cause slight irritation to respiratory tract.
SENSITIZATION	N.A.
MUTAGENICITY	N.A.
CARCINOGENICITY	N.A.
REPRODUCTIVE TOXICITY	N.A.
TETRAOGENICITY	N.A.
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	N/A

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SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)	N/A		
ASPIRATION HAZARD	N/A		
INFORMATION ON LIKELY ROUTES OF EXPOSURE	Inhalation is likely route of exposure.		
POTENTIAL ACUTE HEALTH EFFECTS			
EYE CONTACT	N/A		
INHALATION	May cause respiratory tract irritation		
SKIN CONTACT	N/A		
INGESTION	N/A		
SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS			
EYE CONTACT	N/A		
INHALATION	May cause respiratory tract irritation		
SKIN CONTACT	N/A		
INGESTION	N/A		
DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE			
SHORT TERM EXPOSURE – POTENTIAL IMMEDIATE EFFECTS	N/A		
SHORT TERM EXPOSURE – POTENTIAL DELAYED EFFECTS	N/A		
LONG TERM EXPOSURE – POTENTIAL IMMEDIATE EFFECTS	N/A		
LONG TERM EXPOSURE – POTENTIAL DELAYED EFFECTS	N/A		
POTENTIAL CHRONIC HEALTH EFFECTS			
GENERAL	N.A.		
CARCINOGENICITY	N.A.		
MUTAGENICITY	N.A.		
TERATOGENICITY	N.A.		
DEVELOPMENTAL EFFECTS	N.A.		
FERTILITY EFFECTS	N.A.		
NUMERICAL MEASURES OF TOXICITY (ACUTE TOXICITY ESTIMATE)	N.A.		
TOXICOLOGICAL DATA:			
INGREDIENT	ORAL RAT (LD50)	SKIN RABBIT (LD50)	INHALATION RAT (LC50)
Glass Oxide	N/A	N/A	N/A



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SECTION 12 – ECOLOGICAL INFORMATION	
TOXICITY	N/A
PERSISTENCE AND DEGRADABILITY	N/A
BIOACCUMULATIVE POTENTIAL	N/A
MOBILITY IN SOIL	N/A
OTHER ADVERSE EFFECTS	N/A

SECTION 13 – DISPOSAL CONSIDERATIONS	
DISPOSAL CONSIDERATIONS	Review all local, state, and federal regulations concerning health and pollution for appropriate disposal procedures.

SECTION 14 – TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME		Not regulated			
	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN NUMBER	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN PROPER NAME	-	-	-	-	-
PACKING GROUP	-	-	-	-	-
TRANSPORT HAZARD CLASS(ES)	-	-	-	-	-
ENVIRONMENTAL HAZARDS	No.	No.	No.	No.	No.
ADDITIONAL INFORMATION	Special Provisions Not Applicable	Special Provisions Not Applicable	Special Provisions Not Applicable	Emergency Schedules (Ems) Not Applicable	Special Provisions Not Applicable
SPECIAL PRECAUTIONS FOR USERS:	Multi-modal shipping descriptions are provided for information purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for the mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.				
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL II 73/78 AND THE IBC CODE	N.A				
PROPER SHIPPING NAME	N.A				

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SHIP TYPE	N.A
POLLUTION CATEGORY	N.A

SECTION 15 – REGULATORY INFORMATION**U.S. FEDERAL REGULATION**

OSHA	Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)
CERCLA – SARA HAZARD CATEGORY	This product has been reviewed according to the EPA “Hazard Categories” promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following category: None.
SARA SECTION 313	This product does not contain toxic chemical(s) at or above the de minimus concentrations subject to the reporting requirements of section 313 of Title III Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372.
TOXIC SUBSTANCES CONTROL ACT	This product meets the compositional requirements of the Toxic Substances Control Act and contains only chemical ingredients that are listed on the TSCA inventory.
CALIFORNIA PROP. 65	Warning: This product may contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

INTERNATIONAL REGULATIONS

CANADIAN EPA	This product complies with Domestic Substance List of the Canadian Environmental Agency.
CANADIAN WHMIS CLASS	N/A

SECTION 16 – OTHER INFORMATION

HMIS RATINGS	HEALTH 0	FLAMMABILITY 0	REACTIVITY 0	PERSONAL PROTECTION B
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EUROPEAN PRECAUTIONARY PICTOGRAMS

PREVIOUS SDS REVISION DATE	9/15
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REASON FOR REVISION	N.A.
VOLATILE ORGANIC COMPOUNDS (VOC'S)	N.A.
LEGEND	N.A. – Not Applicable, N.E. – Not Established, N.D. – Not Determined
ABBREVIATIONS USED	N/A – Information or data not available, NTP – National Toxicological Program, IARC – International Agency for Research on Cancer, NIOSH – National Institute of Occupational Safety and Health, PEL – Permissible Exposure Limit (8-hour TWA OSHA), TLV – Threshold Limit Value (8-Hour TWA ACGIH), STEL – Short Term Exposure Limit (15 min. TWA OSHA), C – Ceiling Value
NOTICE TO READER	<p>It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of a material can change the composition, hazards and risks of the product. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that their activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for the SDS's obtained from any other source.</p> <p>Note: This information must be included in all SDS that are copied and distributed for this material.</p>

END OF SAFETY DATA SHEET