

Safety Data Sheet
USA - OSHA Hazard Communication Standard
29 CFR 1910.1200. Prepared to GHS Rev 3.

Canada – According to the
Hazardous Products Regulations (WHMIS 2015)

Revision date: September 26th 2017
Date of issue: September 21, 2015

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Trade name:	ARROX
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SECTION 1: Identification

Product identifier: ARROX
Synonyms: Not applicable.
Product Code Number: Not applicable.
SDS number: Not applicable
Recommended use: Abrasives
Recommended restrictions: Uses other than as recommended above.

Manufacturer/Importer/Supplier/Distributor information:

Company Name: Tricentris, Centre de tri
Company Address: 651 ch. Félix-Touchette
Lachute, QC, J8H 2C5
Company Telephone: (450) 562-4488
Hours of operation: 7:00 AM – 4:00 PM Mon-Fri. (Eastern)

SECTION 2: Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200 and the Hazardous Products Regulations (2015):

Physical hazards

None

Health hazards

None

Environmental hazards

Not determined

GHS Signal word: Not applicable

GHS Hazard statement(s): Not applicable



GHS Hazard symbol(s): Not applicable

GHS Precautionary statement(s): Not applicable

**Health and Physical Hazard(s) not otherwise
Classified (HNOC):** None known.

Percentage of ingredient(s) of unknown acute toxicity:
Not applicable

SECTION 3: Composition/information on ingredients

CAS 65997-17-3

Mixture – Verrox is an amorphous product obtained by the fusion of numerous inorganic substances (predominantly silicon dioxide, calcium oxide and sodium oxide). The component minerals are not present as free oxides as they are fully combined in the glass.

Composition is provided as information only but is not intended to suggest that these compounds are present as free compounds in the mixture.

Chemical name	CAS#	Concentration (weight %)
Glass	65997-17-3	100%
Contains:		
Silicon dioxide (SiO ₂)		74.07
Aluminum oxide (Al ₂ O ₃)		1.97
Iron oxide (Fe ₂ O ₃)		0.44
Total calcium oxide (CaO)		13.56
Magnesium oxide (MgO)		1.26
Sulfur trioxide (SO ₃)		0.20
Potassium oxide (K ₂ O)		0.62
Sodium oxide (Na ₂ O)		7.19
Chlorine (Cl)		0.05
Titanium dioxide (TiO ₂)		0.14



Phosphorus pentoxide (P ₂ O ₅)		0.02
Strontium oxide (SrO)		0.00
Manganese trioxide (Mn ₂ O ₃)		0.03
Chromium trioxide (Cr ₂ O ₃)		0.03
Zinc oxide (ZnO)		0.00

SECTION 4: First-aid Measures

Description of necessary measures:

Inhalation: Remove person to fresh air and keep comfortable for breathing. Call a poison centre or a doctor if you feel unwell.

Skin contact: Wash skin with plenty of soap and water.

Eye contact: May cause mechanical irritation; therefore, in case of contact, immediately flush eyes with plenty of water until for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention. Get medical attention if symptoms persist.

Ingestion: Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a doctor.

Most important symptoms/effects, acute and delayed: None known.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Product is not flammable. Use appropriate extinguishing media for surrounding materials.

Unsuitable extinguishing media: None known

Specific hazards arising from the chemical:

None anticipated.

Special protective equipment and precautions for fire-fighters: Wear appropriate respiratory protection to avoid breathing any dusts of this material that may become airborne in an emergency situation.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Avoid inhalation of spilled product (i.e., dusts). Avoid clean-up methods which create dust clouds. If cleaning up a large spill and inhalation is possible, wear gloves, goggles and a dust mask.



Methods and material for containment and cleaning up: Sweep up spilled material, and try to avoid creating a dust cloud. Product is likely to be able to be used after a spill as long as it has not been contaminated with other materials.

SECTION 7: Handling and Storage

Precautions for safe handling: Wear appropriate personal protective equipment. Avoid breathing dust.

Conditions for safe storage, including any incompatibles: Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

Occupational exposure limits:

US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Permissible Exposure Limits			
Substance	PEL-TWA (8 hour)	PEL-STEL (15 min)	REMARKS
Particulates not otherwise classified	15 mg/m ³	Not applicable	Total dust

US ACGIH Threshold Limit Values			
Substance	TLV-TWA	TLV-STEL	REMARKS
Particulates not otherwise classified	10 mg/m ³ TWA	Not applicable	Inhalable particles

Appropriate engineering controls: Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Avoid all contact with eyes. Wear protective safety glasses.

Skin and Hand protection: Avoid skin contact. Wear suitable protective clothing and protective gloves.

Respiratory protection: If engineering controls do not keep airborne concentrations below established exposure limits or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Normally respiratory protection is not needed but in case of insufficient ventilation or a spill resulting in airborne dust, then a dust mask would be necessary. Contact a health and safety professional or personal protective equipment manufacturer for specific information.



Other: Minimize exposure. Ensure protective equipment is available in the workplace and follow all regulations. Follow all recommendations of your health and safety committee.

Thermal hazards: Not applicable based on known uses.

SECTION 9: Physical and chemical properties

Appearance:	Solid, white powder.
Odor/odour:	None
Odor/odour threshold:	Not applicable
pH:	Not applicable
Melting point/freezing point:	1300°C (Melting point)
Initial Boiling Point and boiling range:	Not available
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not available – not flammable based on experience
Upper/lower flammability or explosive limits	
Flammability limit – lower (%):	Not available.
Flammability limit – upper (%):	Not available.
Explosive limit – lower (%):	Not available.
Explosive limit – upper (%):	Not available.
Vapor/Vapour pressure:	Not applicable
Vapor/Vapour density (air=1):	Not applicable
Relative density (water = 1):	Not available (Density: 2.54 g/cm ³)
Solubility(ies):	Insoluble in water
Partition coefficient (n-octanol/water):	Not available
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not available
Viscosity:	Not applicable

SECTION 10: Stability and Reactivity

Reactivity:	Not chemically reactive.
Chemical stability:	Stable under normal anticipated conditions of use.
Possibility of hazardous reactions:	Hazardous reactions not anticipated.
Conditions to avoid:	None known
Incompatible materials:	Hydrofluoric acid
Hazardous decomposition products:	Not available

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation:	As with many dusty products, prolonged or repeated inhalation of very large amounts of dusts may cause Chronic
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Ingestion:

Obstructive Pulmonary Disease (COPD) or Chronic Bronchitis.

Skin:

Not anticipated to cause any adverse effects upon minor ingestion. Not an anticipated route of workplace exposure.

Eyes:

May cause mechanical skin irritation.

May cause mechanical eye irritation.

Symptoms related to the physical, chemical, and toxicological characteristics:

None known.

Delayed and immediate effects and chronic effects from short or long-term exposure:

Potential COPD or Chronic bronchitis as would be possible with excessive inhalation of any dusts.

Numerical measures of toxicity:

Acute toxicity estimates:

Product Acute Toxicity Estimates:

Acute Oral Toxicity – no data available

Acute Dermal Toxicity - no data available

Acute Inhalation Toxicity - no data available

Skin corrosion/irritation:

May cause mechanical skin irritation.

Serious eye damage/eye irritation:

May cause mechanical eye irritation.

Respiratory sensitization:

Not anticipated to cause respiratory sensitization based on available information about the product.

Skin sensitization:

Not anticipated to cause skin sensitization based on available information about the product.

Germ cell mutagenicity:

Not anticipated to cause mutagenicity based on available information about the product.

Carcinogenicity:

Some of the oxide components of this product can cause cancer, but since they are not free oxides and are instead bound up in the glass matrix. Therefore, based on information about amorphous glasses available in the literature, this product has not been classified as a carcinogen.

Reproductive toxicity:

Not anticipated to cause reproductive toxicity based on available information about the product.

**Specific target organ toxicity-
Single exposure:**

No target organ effects are known.

Specific target organ toxicity-



Repeat exposure (STOT-RE): At extremely high repeated and prolonged doses, inhalation of this product may cause COPD or Chronic Bronchitis, but based on the very high levels needed to cause this effect, this product has not been classified under this category.

Aspiration hazard: Not applicable.

Further information: No data available

SECTION 12: Ecological information

Ecotoxicity:

Product data: Not determined

Persistence and Degradability: Not determined
Bioaccumulative Potential: Not determined.
Mobility in Soil: Not determined.
Other adverse effects: None anticipated.

SECTION 13: Disposal considerations

Disposal instructions:

Product - Dispose in accordance with applicable federal, state, and local regulations. Recycling may be possible where facilities exist.

Contaminated packaging - Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14: Transport Information

Land transport DOT

Not regulated

TDG

Not regulated

Maritime transport IMDG

Not determined

Air transport ICAO-TI and IATA-DGR

Not determined

SECTION 15: Regulatory Information

USA:

Classification according to the US HCS – Hazcom 2012: Not hazardous



This SDS complies with the OSHA, 29 CFR 1910.1200.

STATE REGULATIONS:

Not determined.

Canada:

Classification according to the Canadian Hazardous Products Regulations (WHMIS 2015):

Not hazardous

This SDS complies with the HPR (WHMIS 2015) requirements.

SECTION 16: Other Information

Revision Date: September 26th 2017

To the best of our knowledge, the information contained herein is accurate. However, Tricentris does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.