

SAFETY DATA SHEET

Argonox

Acid foam cleaner for descaling equipment surfaces


Internationally
and
Independently
Tested



1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER	Mixture of Phosphoric Acid and 2-Butoxyethanol
TRADE NAME	Argonox
RECOMMENDED USE	Acid Descaler
RESTRICTIONS ON USE	Cannot use in conjunction with products that contain chlorine
SUPPLIER DETAILS	Sentratek Holdings Pty (Ltd) 24 Lansdowne Place Central Port Elizabeth South Africa
EMERGENCY PHONE NUMBER	+27 41 586 1400 (08:00 to 17:00 - Monday to Friday) +27 83 648 4117 (24 Hours)

2. HAZARDS IDENTIFICATION

CLASSIFICATION	Corrosive
LABEL ELEMENTS	
HAZARD STATEMENTS	Danger! Causes burns. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin.
PRECAUTIONARY STATEMENTS	Keep locked up and out of reach of children. Wear suitable protective clothing. In case of contact with eyes wash with plenty of water and seek medical attention. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
OTHER HAZARDS	None

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

CHEMICAL IDENTITY	Mixture of Phosphoric Acid and 2-Butoxyethanol	
COMMON NAME / SYNONYMS	Blend of mineral acid and glycol ether	
CAS NUMBER	Phosphoric Acid	7664-38-2

Argonox | Version 5 : 05/06/2017 – DM_ITK version

	2-Butoxyethanol	111-76-2
EC NUMBER	Phosphoric Acid 2-Butoxyethanol	231-633-2 203-905-0
HAZARDOUS COMPONENTS	Phosphoric Acid and 2-Butoxyethanol	
CHEMICAL IDENTITY	CONCENTRATION RANGE	HAZARD
Phosphoric Acid	15 – 25%	C; R34
2-Butoxyethanol	<10 %	Xn; R20/21/22, Xi; R36/38

4. FIRST AID MEASURES

PRODUCT IN EYE	Hold the eyelids apart and wash/flush the eyes gently with large amounts of water for at least 15 minutes. Seek medical attention if irritation persists.
PRODUCT ON SKIN	Immediately wash skin with copious amounts of water while removing contaminated clothing. Seek medical attention.
PRODUCT INGESTED	Seek medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.
PRODUCT INHALED	Remove the individual to a well-ventilated area and get medical attention if breathing difficulties occur.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Product is non-flammable. Use extinguishing media (E.g. CO ₂ / Water / Foam / Dry Powder) suitable for surrounding fire.
SPECIAL HAZARDS	Phosphorous Oxides may form when heated to decomposition.
PROTECTIVE CLOTHING	Full protective suit with breathing apparatus. Goggles, gloves etc.
OTHER INFORMATION	

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Avoid contact with skin. Wear suitable protective equipment	
ENVIRONMENTAL PRECAUTIONS	Prevent run-off into sewers or any ground or surface water-way.	
CLEAN-UP METHODS	Small Spills	Take up with absorbent material. Transfer to containers for disposal. Wash away residues with large amounts of water.
	Large spills	Contain spill & absorb with inert non-combustible material. Transfer to containers for disposal.

7. HANDLING AND STORAGE

HANDLING/STORAGE PRECAUTIONS	Keep locked up. Keep container dry. Wear necessary protective clothing. Store in a well-ventilated area.
SUITABLE MATERIALS	Store in plastic containers.
UNSUITABLE MATERIALS	Mild Steel.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE STANDARDS	HSE	8 Hr TWA 2ppm
	MAK	No data available
	ACGIH	TLV – TWA : 1ppm TLV – STEL : 3ppm
ENGINEERING CONTROL MEASURES	Ensure that an eye wash station and safety shower is near the work location. Adequate ventilation is necessary.	
PERSONAL PROTECTION	RESPIRATORY	Full face self-contained respirator / breathing apparatus.
	HAND	Rubber Gloves
	EYE	Avoid splashing. Wear face shield and goggles.
	SKIN	Overalls / plastic apron / gloves / gum boots.
OTHER PROTECTIVE MEASURES	Protective clothing recommended above might not be sufficient in case of large release. Encapsulated hazardous material suit, complete with self-contained breathing apparatus is recommended.	

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	PHYSICAL STATE	Liquid.
	COLOUR	Clear light yellow to brown.
ODOUR	Faintly floral / Glycol ether.	
ODOUR THRESHOLD	No data available.	
PH	< 2	
MELTING POINT / FREEZING POINT	Not available.	
INITIAL BOILING POINT	>90°C	
BOILING RANGE	Not available.	
FLASH POINT	Not applicable.	

EVAPORATION RATE	Not available.
FLAMMABILITY(SOLID, GAS)	Non-flammable – Chemical reactions may lead to fire.
UPPER/LOWER FLAMMABILITY	No data available.
EXPLOSIVE LIMITS	Not applicable.
VAPOUR PRESSURE	17.5 mm Hg @ 20°C
VAPOUR DENSITY	No data available.
RELATIVE DENSITY	1.11± 0.01 kg/L
SOLUBILITY - Water	Infinitely soluble.
SOLUBILITY - Solvent	Insoluble.
PARTITION COEFFICIENT: N-OCTANOL/WATER	Not available.
AUTOIGNITION TEMPERATURE	Not applicable.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY	Stable under normal conditions of use and storage.
HAZARDOUS REACTIONS	Reactive or incompatible with Alkali's.
CONDITIONS TO AVOID	Excessive heat.
INCOMPATIBLE MATERIALS	Corrosive to mild metals such as copper, aluminium, brass, iron and mild steel.
HAZARDOUS DECOMPOSITION PRODUCTS	Phosphorous oxides may form when heated to decomposition.
POLYMERIZATION	Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Oral (Rat) LD 50: 1530mg/kg
SKIN AND EYE CONTACT	Corrosive. Burns and permanent damage to eye tissue. Will cause burns and skin damage.
CHRONIC TOXICITY	Constant irritation of eyes, skin, throat and abdominal pain.
CARCINOGENICITY	No data available.
MUTAGENICITY	No data available.
REPRODUCTIVE HAZARDS	No data available.

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY – FISH	Harmful to aquatic life in high concentrations.
AQUATIC TOXICITY – DAPHNIA	Harmful to aquatic life in high concentrations.
AQUATIC TOXICITY – ALGAE	Harmful to aquatic life in high concentrations.
BIODEGRADABILITY	No data available.
BIO-ACCUMULATION	No data available.
MOBILITY IN SOIL	No data available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Must comply with local, provincial and national regulations. Waste characterization and compliance with disposal regulations is the responsibility of the waste generator.
DISPOSAL OF PACKAGING	Must comply with local, provincial and national regulations. Waste characterization and compliance with disposal regulations is the responsibility of the waste generator.
SPILL RESIDUE	Recovered loads of liquids may be disposed of in a permitted waste management facility. Consult national, provincial or local disposal authorities for approved procedures.

14. TRANSPORT INFORMATION

UN NUMBER	1760
UN PROPER SHIPPING NAME	Corrosive Liquid N.O.S.
TRANSPORT HAZARD CLASS(ES)	8
PACKING GROUP	III
MARINE POLLUTANT	Not listed as a marine pollutant.
SPECIAL PRECAUTIONS	None

15. REGULATORY INFORMATION

HAZARD CLASSIFICATION	C : Corrosive
RISK PHRASES	R20/21/22, R34, R36/38
SAFETY PHRASES	S1/2, S26, S36/37
RSA NATIONAL LEGISLATION	Occupational Health and Safety Act (No. 85 of 1993) Regulation R1449 of 6 September 1996. Government Notice No. 17403. Regulations for Hazardous Chemical Substances.



	SANS 10265 - The classification and labelling of dangerous substances and preparations. SANS 10234 - Globally harmonized system of classification and labelling of chemicals (GHS).
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16. OTHER INFORMATION

HAZARD SYMBOLS INFORMATION	
Xn	Harmful.
Xi	Irritant.

RISK PHRASES INFORMATION	
R20/21/22	Harmful by inhalation in contact with skin, and if swallowed.
R34	Causes burns.
R36/37	Irritating to eyes and respiratory system.

SAFETY PHRASES INFORMATION	
S1/2	Keep locked up and out of reach of children.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36	Wear suitable protective clothing.
S37	Wear suitable gloves.

PREPARATION DATE	October 2011
REVISION NO	1
COMPILED BY	Geoff Bayman
APPROVED BY	Don Mackay
DATE OF APPROVAL	December 2014
DATE OF REVISION / STATUS	05 June 2017 / Rev 5

DISCLAIMER:

The information contained herein is based on our best current technical knowledge of the product concerned and is given in good faith. The attention of end users is drawn to (amongst other things) the element of risk consequent to the use of the product for purposes other than that for which it was intended. In no way does the document remove the need for the user of this product to fully understand and apply statutory requirements. It is the user's sole responsibility to take due precautions relative to the use made of the product. All the information included herein is intended to assist the reader in fulfilling his or her statutory duty connected with the use of hazardous materials. This list of information must not be considered as exhaustive and does not exonerate the reader from taking other precautions described in documents other than those mentioned concerning the storage and use of the product for which he or she remains the sole person responsible.

Argonox | Version 5 : 05/06/2017 - DM_ITK version