SAFETY DATA SHEET

PEX

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME	PEX
SUPPLIER OF THE SDS	Axis House Group (Pty) Ltd P O Box 26265 Hout Bay 7872
TELEPHONE NUMBER	+27 11 463-4888
EMERGENCY TELEPHONE	DRIZIT ENVIRONMENTAL (24 hours) +27 800 202 202

2. HAZARDS IDENTIFICATION

SIGNAL WORD	**Danger**
Health Hazard	
Flammable Solids	Category 1
Acute toxicity, Oral	Category 4
Acute toxicity, Inhalation	Category 4
Skin irritation	Category 2
Eye irritation	Category 2
Specific target organ toxicity, single exposure, narcotic effect	Category 3

HAZARD STATEMENT(S)

H228 – Flammable solid.
H302 + H332 – Harmful if swallowed.
H315 – Causes skin irritation.
H319 – Causes serious eye irritation.
H335 – May cause respiratory irritation.

PRECAUTIONARY STATEMENT(S)

Prevention

P261 – Avoid breathing in fumes.
P210 – Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Response

P301+P312 – IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P302 + P352 – IF ON SKIN: Wash with plenty of water.
P304 + P340 + P312 - IF INHLALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage	P403 + P233 – Store in a well-ventilated place and keep the container tightly closed.
Disposal	P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percentage
Potassium Ethyl Xanthate	140-89-6	>90
Potassium Hydroxide	1310-58-3	<1
Ethyl alcohol	67-17-5	<0.5

4. FIRST AID MEASURES

SKIN CONTACT	Remove all contaminated clothing, flush area of contact with water for at least 15 minutes. Then wash with soap and water. If irritation persists, seek medical attention. Do not wash with solvent. Launder clothes before re-use.
EYE CONTACT	Check for and remove any contact lenses. Immediately flush eyes with water for at least 15 minutes, while holding eyelids open, seek medical attention at once. Cold water may be used. Do not use eye ointment.
INHALATION	Remove to fresh air. Apply artificial respiration or administer oxygen if necessary. Seek prompt medical attention.
INGESTION	Do not induce vomiting. Loosen tight clothing. Seek medical attention immediately.
GENERAL ADVICE	Precautions should always be taken to avoid contact or inhalation of fumes of any chemical substance. Precautions should always be taken to avoid skin/eye contact with any chemical substance.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	
SUITABLE MEDIA	Dry chemical, water spray, chemical foam, carbon dioxide (CO2).
UNSUITABLE MEDIA	Do not use direct water jet.
SPECIAL HAZARD ARISING FROM THE SUBSTANCE OR MIXTURE	Carbon oxides, Sulphur oxide, Potassium oxides. Combustible. Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.
PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS	Firefighters must wear self-contained breathing apparatus with full face mask. Firefighting suit may not be efficient against chemicals.
SPECIAL FIRE-FIGHTING PROCEDURE	Use water spray to cool fire-exposed containers. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

6. ACCIDENTAL RELEASE MEASURES

CLEAN UP PROCEDURES	
DRY SPILLS	Wear eye protection and gloves dusk mask if necessary. Collect in dry containers and seal to be reused. Do not dilute with water. Keep away

	from heat and sources of ignition. Do not let the product into drains. Avoid generation of dust.
WET SPILLS	Cover drains. Collect, bind and pump of spills. Safe-contained apparatus should be used. Xanthates may be recovered by leaching out with water, but if recovery is not possible bury waste in an approved 'landfill' site. Flush remaining spill away with plenty of water.

7. HANDLING AND STORAGE

HANDLING	Keep container closed. Use only with adequate ventilation. Do not inhale substances/mixture. Keep away from open flames, hot surfaces, and sources of ignition. Immediately change contaminated clothing. Apply skin protection. Wash hands and face after working with substance.
STORAGE	Store in cool, dry place out of direct sunlight. Store in a well-ventilated area. Keep away from heat and sources of ignition.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

PRECAUTIONARY MEASURES	Avoid contact with skin and eyes. Avoid ingestion. Avoid breathing vapours. Never allow this product to come in contact with acids, do not try to neutralize with acids as toxic. Do not let product enter drains.
PERSONAL PROTECTION	
GLOVES/TYPE	Heavy natural rubber gloves.
RESPIRATOR/TYPE	Where vapours or mist are present, use an approved NIOSH/MSHA approved respirator appropriate for the indicated components, or use an approved air supplied respirator.
EYE/TYPES	Safety goggles with side shields.
FOOTWEAR/TYPE	Rubber safety boots.
CLOTHING/TYPE	Wear adequate protective clothes.
OTHER/TYPE	An eye wash station and safety shower should be near the work area.
ENGINEERING CONTROLS	Adequate ventilation to keep vapours low.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder or Pellets
Colour	Yellow/green
Odour	Unpleasant odour
Vapour Pressure	Not determined
Boiling Point	Not determined
Flash Point & Method	96°C
pH @ 5%	Water solutions > 12
Specific Gravity	0.80-0.85
Solubility in water	Soluble
Bulk Density	0.85

10. STABILITY AND REACTIVITY

STABILITY	This chemical is stable under normal and anticipated storage and handling conditions.

INCOMPATIBILITY	This material is chemical is stable under normal and anticipated storage and handling storage. Can violently decompose at elevated temperature's Exothermic reaction with acids. Forms explosive mixtures with air on intense heating.
HAZARDOUS DECOMPOSITION PRODUCTS	Decomposes when moist. Decomposition under influence of moisture is highly accelerated by heating. Violent reaction possible with strong oxidising agents, strong acids, and bases.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological effects

LD50 (oral) - Rat	1.700 mg/kg
LC50 (inhalation) - Rat, 4h	1.5 mg/l

IRRITANCY OF MATERIAL	Irritant refer to route of entry.
SENSITIZING CAPABILITY OF MATERIAL	N/AV
CARCINOGENICITY OF MATERIAL	None known.
REPRODUCTIVE EFFECTS	No effects have been reported.
SYNERGISTIC MATERIAL	None known.
MEDICAL CONDITIONS AGGRAVATED BY OVER EXPSOURE	Repeated, Long Exposure of workers resulted in headaches, dizziness, fatigue, weariness, and gastrointestinal symptoms.
SKIN CONTACT	Moderate skin irritation.
EYE CONTACT	Moderate eye irritation.
INHALATION	May cause respiratory irritation.

12. ECOLOGICAL INFORMATION

TOXICITY TO FISH	LC50 -Oncorhynchus mykiss (rainbow trout) -52 mg/l-96h
	NOEC-Brachydanio rerio (zebrafish)-5,26 mg/l -8d
TOXICITY TO FISH (CHRONIC TOXICITY)	NOEC-Danio rerio (zebra fish)-5,26 mg/l- 8d
TOXICITY DAPHNIA	LC50- Gammarus fasciatus (freshwater shrimp)- 52 mg/l-96h
BIODEGRADABILITY	Results: Inherently biodegradable.
	Remarks: Read across (Analogy).

This substance contains no components considered to be either persistent, bioaccumulative and toxic (BPT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD	Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate. Please be advised that the state and local requirements for waste disposal may be more restrictive otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.
CONTAMINATED PACKAGING	Any containers or equipment used should be decontaminated immediately after use.

14. TRANSPORT INFORMATION

UN-NUMBER	3342
PACKAGING GROUP	II

ADR/RID

UN PROPER SHIPPING NAME	Xanthates
TRANSPORT HAZARD CLASSES	4.2

IMDG

UN PROPER SHIPPING NAME	Xanthates
TRANSPORT HAZARD CLASSES	4.2

IATA

UN PROPER SHIPPING NAME	Xanthates
TRANSPORT HAZARD CLASSES	4.2

15. REGULATORY INFORMATION

SUPPLY CLASSIFICATION	
HAZARD SYMBOL(S)	None
SAFETY PHRASES S61:	Avoid release to the environment. Refer to special instructions / Safety Data Sheet

16. OTHER INFORMATION

Revision date: January 2023

SAFETY

The data contained herein is believed to be accurate. However, neither the above-named supplier nor any of its subsidiaries assume any legal liability whatsoever for the accuracy or completeness of the information contained herein. Users should undertake sufficient verification and testing to determine the suitability for their own purpose of any product or inform.