

MATERIAL SAFETY DATA SHEET

I Product Identification

Product Name : Separator Cleaner
Reference No : Norchem SC 233

II Composition/Information on Ingredients

Ingredient	CAS No	Percent	Symbol/R-Phrase
Phosphoric Acid	7664-38-2	20 – 40%	C/R34
2-2(butoxyethoxy) ethanol	112-34-5	30 – 50%	Xi/R36
Non classified ingredients		Balance	

III Hazards Identification

Human Health Hazard Corrosive

Inhalation Vapours or aerosols may cause irritation of eyes, nose and respiratory tract. Can cause damage to the lungs.

Ingestion Will cause headache, dizziness, drowsiness, nausea and even chemical burn to mouth, throat and stomach.

Skin Contact May cause irritation if contact for long period or contaminated part is not wash off immediately.

Eye Contact Can cause damage to the eyes. Prolonged skin or eye contact may cause chemical burns.

IV First Aid Measures

Inhalation Remove from exposure to fresh air immediately. Restore breathing, if required. Keep at rest and warm. Get prompt medical attention.

Inges Get immediate help. Do NOT induce vomiting unless directed by physician. Get prompt medical attention.

Skin Contact Remove contaminated clothing. Washing skin thoroughly with soap and water. Contact physician if irritation continues.

Eye Contact Immediately remove any contact lenses from the eyes before rinsing. Flush eyes with plenty of running water for at least 15 minutes. Continue washing to minimize discomfort. Get prompt attention.

Note to Physician There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

V Fire Fighting Measures

Auto-ignition Temperature	NA
Flammable Limits in Air (%vol)	LEL : Not Determined UEL : Not Determined
Fire	This product is not readily combustible under normal conditions. However, it will breakdown under fire conditions and the organic component may burn. Smoke from fires is corrosive. In case of fire use extinguishing media appropriate to surround conditions.
Extinguishing Media	Water spray, carbon dioxide, alcohol foam or dry chemical.
Special Fire Fighting Procedures	Cool containers exposed to flames with water spray.
Special Protective Equipment for Firefighters	Use full-face self-contained breathing apparatus and protective suit when fighting fires in enclosed areas. Water mist may be used to cool closed containers.
Unusual Fire and Explosion Hazards	Decomposes on heating and may produce toxic fumes of carbon monoxide (CO). Other decomposition products include carbon dioxide (CO ₂)

VI Accidental Release Measures

Steps to be taken in case material is released or spilled	Use proper personal protective equipment as indicated Section VIII. Remove all sources of ignition. Absorb or contain liquid with sand, earth or vermiculite. Shovel up and place in labeled, sealable container for subsequent safe disposal. Put leaking containers in a labeled drum or overdrum. Rinse contaminated surfaces with plenty of water or detergent. Retain washings as contaminated waste.
Spillage Disposal	Consult a government approved chemical disposal company on the disposal of the spillage material. Ensure disposal conforms to local disposal regulations.

VII Handling and Storage

Handling	Avoid contact with skin, eyes and clothing. Do not breathe vapour or mist, only use in well-ventilated areas. Empty containers may contain residual product. Do not reuse container unless properly reconditioned.
Storage	Keep container tightly closed in a well-ventilated place. Keep away from direct sunlight and other sources of heat, sparks and flame. Store in cool, dry condition, separately from oxidizers.

VIII Exposure Controls/Personal Protection

Engineering Controls	General ventilation is recommended. Local explosion-proof ventilation to keep airborne levels to acceptable levels if necessary.
Exposure Limits	Phosphoric Acid – TWA 1mg/m ³ (ACGIH – TLV)
Personal Respirators	If necessary (where airborne exposure is likely to be exceeded), wear a OSHA/NIOSH approved respirators.
Skin Protection	Polyvinyl chloride (PVC) gloves, Neoprene gloves or Butyl gloves. Chemical-resistant apron or other clothing.
Eye Protection	Chemical splash goggles, face shield

IX Physical and Chemical Properties

Appearance	Clear liquid
Density	1.176 ± 0.02
Boiling Point	102°C (215.6°F)
Freezing Point	1°C (33.8°F)
Flash Point	None
pH	Approx. 1.0
Stability	Indefinite

X Stability and Reactivity

Stability	Stable under normal conditions
Hazardous Decomposition Products	Carbon monoxide (CO) or Carbon dioxide (CO ₂)
Incompatibilities	Strong oxidizing agents
Conditions to avoid	Heat, ignition sources and flame
Polymerization	Will not occur

XI Toxicological Information

Toxicity Data	2-2(butoxyethoxy) ethanol: Oral LD50 = 5660 mg/kg (rat) Dermal LD50 = 2700 mg/kg (rabbit) Inhalation LD50 = Not available
	Phosphoric acid: Oral LD50 = 1530 mg/kg (rat) Dermal LD50 = 2740 mg/kg (rabbit) Inhalation TCLo = 100 mg/m ³ (human)

XII Ecological Information

Persistence & Degradability Its main ingredients will either dissolve rapidly and dissociate in water or are readily/ inherently biodegradable.

Environmental Risks May cause acute effects in the aquatic environment.
 Presents little or no hazard to the aquatic environment.

XIII Disposal Considerations

This product is suitable for disposal in an approved landfill or by controlled incineration. This product is NOT suitable for disposal via municipal sewers, drains, natural streams or rivers.

XIV Transport Information

Transport Classification	Corrosive
Land Transport	
Hazard Class	8
UN ID Number	UN 1805
Packing Group	III
Proper Shipping Name	Phosphoric acid, Liquid
Sea Transport (IMDG)	
Hazard Class	8
UN ID Number	UN 1805
Packing Group	III
Proper Shipping Name	Phosphoric acid, Liquid
Air Transport (ICAO/IATA)	
Hazard Class	8
UN ID Number	UN 1805
Packing Group	III
Proper Shipping Name	Phosphoric acid, Liquid

XV Regulatory Information

Hazard Category : Harmful

XVI Other Information

Risk Phrases R-34 Causes burns
 R-36 Irritating to eyes

Safety Phrases S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
 S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection

All information and recommendations given in this brochure are, to the best of our knowledge, true and accurate; but since the conditions of use are beyond our control, no warranty is given nor do we accept any liability