

Safety Data Sheet

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: KPNOX18 Liquid
Item # : KP1802 L
Intended Use: Pickling liquid for Stainless steel nitric and hydrofluoric acids free
Manufacture: GROUPE KEMPLUS, INC
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2 HAZARDS IDENTIFICATION

Emergency overview

Corrosive liquid. May cause eye and skin irritation. Inhalation of vapors may cause respiratory on acute contact. Prolonged over exposure may cause liver, kidney and nervous system damage. Ingestion: If swallowed can cause gastroenteritis and pruritus in humans

3 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Amount (w/w)
Phosphoric acid	7664-38-2	3-7
Ammonium bifluoride	1341-49-7	3-7
Potassium hydrogenpersulfate	10361-76-9	3-7
Sodium laureth sulfate	9004-82-4	1-3
Potassium metasilicate	1312-76-1	1-3
Propriety pickling catalyst	*	<1
Complexing agent	*	<1
Corrosion inhibitor	*	<1

4 FIRST AID MEASURES

Skin: Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of the chemical remains (at least 30 minutes). Get medical attention immediately. **Eye:** Flush eyes immediately with large amounts of water or normal saline solution, occasionally lifting upper and lower lids until no evidence of chemical remains (at least 30 minutes). Get medical attention immediately.

Inhalation: Remove from exposure area to fresh air immediately. Seek medical attention immediately.

Ingestion: Give a glass of water to victim to drink. Contact immediately the poison center. Do not induce vomiting unless directed by medical personal. Seek medical attention. Never give anything by mouth if victim is rapidly losing consciousness, is unconscious or having convulsions. If vomiting occurs naturally, the lean forward to reduce the risk of aspiration Notes to Physician: Treat symptomatically and supportively

5 FIREFIGHTING MEASURES

Flashpoint: Non-combustible

Extinguishing Media: Use appropriate extinguisher for surrounding fire. If water is to be used, apply in flooding quantities form as great a distance as possible

Decomposition Products: : Decomposes when heated over 100°C, releasing oxygen, fluorine CO₂, NO_x, SO₂ gases. **Lower Flame**

Limit: NA, **Higher Flame Limit:** NA

Unusual Fire and Explosion Hazards: Container may explode from internal pressure if confined to fire. Cool with water. Keep unnecessary people away.

Fire Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece.

6 ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Use a dilute solution of sodium bicarbonate to neutralize residue.

7 HANDLING AND STORAGE

Handling Use only in an area well ventilated by moving air. Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Wear protective clothing (see section 8).

Storage: Store in cool place away from ignition sources. Store away from caustic or alkaline material. Store in plastic or PVC. Do not use metal or glass containers because of possible corrosion and generation of flammable hydrogen gas. Keep containers tightly closed.

8 EXPOSURE CONTROL/ PERSONAL PROTECTION

Exposure limit: ND

Engineering controls: Use local exhaust ventilation to maintain exposures below the occupational exposure limit. **Breathing Protection:** If exposure limit are exceeded, wear Gas mask with a filter of the chlorine type B (grey), dust filter P2. **Hand Protection:** Wear impervious gloves such as PVC, Nitrile or neoprene. **Eyes Protection:** Safety goggles or masks against sprinkle/jet. **Other:** Impervious clothing as needed to prevent contact. Provide a safety shower and eye wash. Keep far from foods and beverages wash the hands before breaks and the end of work. Get information about the products, before using.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid
Smell:	Pungent
pH (sol. 1 %):	< 2
Boiling Point:	ND
Flammability Point:	ND
Self-flammable point:	non flammable
Explosive Properties:	not applicable
Steam Pressure:	ND
Density @ 20°C:	ND
Water solubility:	complete
Viscosity 30 rpm @ 23°C:	ND

10 STABILITY AND REACTIVITY

Stability: Stable under normal storage and handling condition **Incompatibility:** Basic and reducing agents. **Conditions to avoid:** Avoid heat sources **Decomposition products:** Take care to avoid strong heating, toxic gases may be produced such as carbon dioxide, NO_x and sulfur oxide

11 TOXICOLOGICAL INFORMATION

Acute toxicity values: DL₅₀ (oral, rat) ND, CL₅₀ (Inhalation, rat) ND (4 h, aerosol, rat)

Health hazard: Skin: Repeated or prolonged contact may cause irritation. The oxidizer salt may cause skin sensitization. Eye: contact may cause serious irritation and damage. Inhalation: Inhalation of vapors may cause mucous membrane and respiratory irritation and lung edema. The oxidizer salt can cause respiratory sensitization. Ingestion: may cause serious kidneys and liver damage. Additional information: symptoms will not appear immediately.

12 ECOLOGICAL INFORMATION

Avoid the penetration (fall) in watercourses, in sewerage and the soil, whether of the pure product or of its rinsing waters. It has a toxic effect on fishes. The product could be depurated by neutralization and flocculation.

13 DISPOSAL CONSIDERATION

Contaminated residues, water waste must be neutralized to correct its pH-value (6-8), and heavy metals resulting from the cleaning of the stainless steel should be removed. Dispose of in accordance with all local, state and federal regulations at an approved waste disposal facility. Empty containers can have residues and are subject to proper waste disposal, as above.

14 TRANSPORT INFORMATION

Proper shipping name: Corrosive liquid, Oxidizing N.O.S
Hazard class / Packing group: Class 8, PG II
UN number: UN 3264 Labels required: Corrosive
Packaging Size: 20,200 and 1000 kg

15 REGULATION INFORMATION

Hazard and safety information: According to handling of dangerous goods.

WHMIS (Canada) classification: Class E, D2B, D2A, C.

NFPA (National Fire Protection Association): Health: 2 Flammability: 0 Reactivity: 1

16 OTHER INFORMATION

All the information, recommendations and suggestions appearing herein are based sources believed to be reliable. However, it is the users' responsibility to determine the safety, toxicity and suitability for its own use of this product.