

SAFETY SPECIFICATION SHEET
According to 91/155/EWG

1. Trade mark : **Pelox Pickling Paste TS-K2000**
Use : to pickle surface of stainless steel

Manufacturer / Supplier : Sir John b.v.
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Update : March 2004
Printed : 20/03/2013

2. **Chemical constituent:** mixed acid product

CAS-nr	Specification	EG-No.	Index-No.	MAK
7697-37-2	Nitric acid <35%	231-714-2	007-004-00-1	25 mg/m ³
7664-39-3	Hydrofluoric acid <15%	231-634-8	009-003-00-1	2,5 mg/m ³

3. **Potential Danger:**

Specification:



C corrosive **T** toxic

Special indication of danger to men and environment:

R26/27/28 : very toxic by inhalation, in contact with skin and if swallowed
R 35 : Causes severe burns

4. **First aid:**

Remove soaked clothing immediately and remove the injured person from the zone of danger (attention; protect yourself)

After touching skin: Wash immediately with plenty of soap and water, rinse well.

After inhaling: Fresh air supply, resting position, body warming, if necessary respiration aid. In case of unconsciousness, resting or transporting in a lateral stable position.
Consult immediately a physician or medical officer.

After contacting the eyes: Rinse the open eye for several minutes with running water and consult an physician.

After swallowing: Drink a large quantity of water and supply fresh air
Consult immediately a physician.

5. **Fire fighting measures:**

Appropriate extinguishing agents:

CO₂, extinguishing powder or water spray jet.
Fight wider spread fire with water spray jet or alcohol resistant foam.

Special protective equipment:

A respirator.

Note:

Closed containers in designated fire zones should be cooled with water to avoid them bursting or exploding by generation of NO_x-gas and HF-fume decomposition.

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6. Protection measures by unintentional escape:

Personal precautionary measures:	Leave the danger zone immediately, do not inhale gas or fumes, and if possible wear a respirator.
Ecological measures:	Prevent from getting into canals, drains or sewage system. In case of any damage at sea (ship or cargo) inform the local authorities.
Cleaning / abortion treatment:	Use a neutralisation solution (f.i. soda lye, calcium hydroxide, alkali lye) after dilution with plenty of water. Keep the room ventilated. Mechanical absorption or with liquid agglutinate. Do not use inflammable materials (f.i. sawdust) Precipitate gas / fume / mist with water spray jet.

7. Handling and storage:

Indication for safe handling:	Store in closed plastic containers, in a cool place with appropriate ventilation / exhaust and out of the direct sunlight. Put them in a catching tub, be careful with the construction materials and the volumes. Do not store them together with inflammable materials or concentrated lye solutions.
Protective personal equipment:	Keep a bottle for rinsing the eyes ready to work close by. Keep food and drinks away. Remove soaked clothes immediately. Wash your hands before breaks or leaving for the day. If necessary use a respirator or hermetic closing glasses. (plastic glass) protective shield, rubber / plastic gloves, acid proof clothing and shoes.

8. Physical and chemical properties:

Form:	Liquid
Colour:	Colourless
Smell:	Pungent
Change of state:	
Fusion point:	not applicable (non-combustible)
Boiling point:	105° C
Flash Point:	not applicable (non-combustible)
Explosion hazard:	not applicable (non-combustible)
pH-value:	0 (strong acid)
Density:	at 20° C 1,15 – 1,30 g/cm ³
Solubility in water:	100%
Stability and reactivity:	Thermal decomposition at the boiling point (is to be avoid) Hazardous decomposition product: nitric gas, HF gas stable at ambient temperature. Dangerous reaction: exothermic neutralisation reaction with concentrated lye, strong corrosion with most metals / alloy metals (releasing inflammable hydrogen and NOx gas, which explodes when, mixed with air), increasing danger or fire / explosion.

9. Toxicity:

Acute, life threatening:	
Primary irritation:	
Skin / mucosa:	Severe caustic burns
Eyes:	Severe caustic burns, danger of lost of sight
When swallowed:	Severe caustic burns in mouth and throat, danger of perforation of oesophagus and stomach.
When inhaled:	danger of pulmonary oedema with as many as 24 hours latency period.

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10. Ecology:

Water dangerous-materials class 1 (self-classification) primary irritations:
DO NOT let it get undiluted / unneutralised in the canals, drains or sewages system. The toxic effect for fish and bacteria starts with a pH-value under 6 and increases with a smaller pH-value.

11. Disposal:

Recommendation:

Disposal of a used acid solution by neutralising with a calcium hydroxide solution in an appropriate container.

Filter the resulting neutral slush and dispose it according to authority regulations.

Waste key number: EAK-Code 190205

12. Transportation regulations:

Name of the product: Nitric acid and hydrofluoric acid solution.

Overland transportation ADR/RID and GGVS/GGVE (across the border / inland)



ADR/RID - GGVS/E class: 8 corrosive materials
Figure /notation: II
Kemler- figure: 8 / 6.1
UN-number: 2922

Naval transportation IMDG/GGVS Sea



IMDG/GGVSea-class: 8
Label: 8 / 6.1
UN-number: 2922
Packing group: II
EMS-number: F-A, S-B
MFAG: (760)

Air transportation ICAO-TI en IATA-DGR:



ICAO/IATA-class: 8
UN/ID-number: 2922
Packing group: II

13. Identification according to EU regulations:



C Corrosive



T Toxic

Hazardous warnings:

R 26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.
R 35 Causes severe burns.

Safety instructions:

S 1/2 Keep locked away and out of children's reach
S 7/9 Keep container tightly closed and in a well ventilated place.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S 27 Take off immediately all contaminated clothing
S 36/37/39 Wear suitable protective clothing, gloves and glasses / face protection
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

14. Further information:

The indications in this safety specification sheet are based on our present level of knowledge and according to national and EU legislation.

It is not allowed to use the product for other purposes than those mentioned above without permission in writing.

We have neither knowledge nor control of the existing working conditions of the user.

The user is responsible for meeting all the necessary legal conditions.

This safety specification sheet describes the safety requirements for our products. It is not assurance of this product's properties nor is it valid as a basis for a contractual legal relation.