

MATERIAL SAFETY DATA SHEET



Identification of the substance/mixture and of the company/undertaking:

1.1 Product identifier:

PIP Prosan

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Descaler

Concentration in use: 10 - 25% In water

1.3 Details of the supplier of the safety data sheet:

HYCHEM (PTY) LTD

Silverstone Crescent

Kyalami Park

P.O.Box 5742, Rivonia, 2128

Tel:0027 11 466 1885 - Fax:0027 11 466 1900

Website:www.hychem.co.za

1.4 Emergency telephone number:

Local: 083 407 5465 – 083 702 6502

2. Hazards identification:

2.1 Classification of the substance or mixture: None/

2.2 Label elements:

Symbols: None

R-Phrases: / None

Safety phrases:/ None

Contains: /

2.3 Other hazards: This is a harmless preparation. Normally no risks are to be expected, minor discomfort may occur.

3. Composition/information on ingredients:

Urea Hydrochloride 2,5 - 10 % CAS N° 506-89-8

Symbol Xi

R-Phrases 36-37-38

Fattyalcohol C12 -14, ethoxylated 0.5 – 2.5 % CAS N° 69011-36-5

Symbol Xn

R-Phrases 22 – 41

For the full text of the H & R phrases mentioned in this section, see section 16.

4. First aid measures:

4.1 Description of first aid measures:

Always seek medical advice as soon as possible should serious or continuous disturbances occur

Skin contact : Remove contaminated clothing, rinse skin with plenty water and transport to hospital immediately.

Eye contact : Rinse immediately with plenty water and seek medical attention

Ingestion : Rinse mouth and take to hospital immediately

Inhalation : In case of serious or continuous discomfort: remove to fresh air and seek medical attention

4.2 Most important symptoms and effects, both acute and delayed:

Skin contact : None

Eye contact : Redness

Ingestion : Diarrhoea, headache, abdominal cramps, sleepiness, vomiting

4.3 Indication of any immediate medical attention and special treatment needed: None

5. Fire-fighting measures:

5.1 Extinguishing media : Non flammable

5.2 Special hazards arising from the substance or mixture: None

5.3 Advice for fire-fighters: Extinguishing agents to be avoided: None

6. Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures:

No eating, drinking or smoking during work, keep in a sealed container, out of reach of children

6.2 Environmental precautions: Avoid concentrate to flow into sewers or open water

6.3 Methods and material for containment and cleaning up: In case the undiluted product is discharged accidentally, neutralise pH to 7

6.4 Reference to other sections: For further information check sections 8 & 13

7. Handling and storage:

7.1 Precautions for safe handling: Handle with care to avoid spillage

7.2 Conditions for safe storage, including any incompatibilities: Keep in a sealed container in a closed, frost-free, ventilated room Packing materials to be avoided: none

7.3 Specific end use(s): Descaler

8. Exposure controls/personal protection:

8.1 Control parameters: Follows a list of the hazardous elements mentioned sub 3. Of which the TLV value is known: /,

8.2 Exposure controls:

Inhalation protection : None

Skin protection : None

Eye protection : None

Other protection : None

9. Physical and chemical properties:

Melting point/melting range, °C	: 0
Boiling point/Boiling range, °C	: 100 - 233
pH	: 0.9
pH 1% diluted in water	: /
Vapour pressure/20°C, Pa	: 2332
Vapour density, %	: n/a
Relative density/20°C	: 1,037
Appearance/20°C	: liquid
Flash point, °C	: /
Flammability (solid, gas)	: 24.6
Auto-ignition temperature, °C	: /
Upper flammability or explosive limit, Vol %	: 0.85
Lower flammability or explosive limit, Vol %	: n/a
Explosive properties	: n/a
Oxidising properties	: n/a
Decomposition temperature, °C	: n.d.a.
Solubility in water	: completely soluble
Partition coefficient: n-octanol/water, %	: n/a
Odour	: characteristic
Odour threshold	: n/a
Dynamic viscosity, mPa.s/20°C	: 1
Kinematic viscosity, mm ² /s/20°C	: 1
Evaporation rate (n-BuAc = 1)	: 0,3

9.2 Other information:

Volatile organic component (VOC),% : 0
Volatile organic component (VOC),g/l : 7

10. Stability and reactivity:

10.1 Reactivity: keep in a sealed container in a closed, frost-free, ventilated room

10.2 Chemical stability: None known

10.3 Possibility of hazardous reactions: Alkalines

10.4 Conditions to avoid: Handle with care to avoid spillage

10.5 Incompatible materials: Metals

10.6 Hazardous decomposition products: Avoid spillage

11. Toxicological information:

11.1 Information on toxicological effects:

About the substance itself : not applicable under actual EEC guidelines for preparations

General information : see ingredients under section 3

Calculated acute toxicity, LD50 oral rat, mg/kg : 4461

12. Ecological information:

12.1 Toxicity: Not applicable under actual EEC guidelines for preparations

12.2 Persistence and degradability: The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC)

No.648/2004 on detergents.

12.3 Bio accumulative potential: Not applicable under actual EEC guidelines for preparations

12.4 Mobility in soil: Water hazard class, WGK: 1

12.5 Results of PBT and vPvB assessment: Not applicable under actual EEC guidelines for preparations

12.6 Other adverse effects: Not applicable under actual EEC guidelines for preparations

13. Disposal considerations:

13.1 Waste treatment methods: The product may be discharged in the indicated percentages of utilization, provided it is neutralised to pH 7. Possible restrictive regulations by local authority should always be adhered to.

14. Transport information:

14.1 UN number: :/

14.2 UN proper shipping name: :ADR not applicable.

14.3 Transport hazard class(es): class(es):Identification number of the hazard: /

14.4 Packing group: :/

14.5 Environmental hazards: Not dangerous to the environment

14.6 Special precautions for user: :/

15. Regulatory information:

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Water hazard class, WGK : 1

Volatile organic component (VOC),% : 0

Volatile organic component (VOC),g/l : 7

15.2 Chemical Safety Assessment : :n.d.a.

16. Other information:

Legend to abbreviations used in the safety data sheet:

n.d.a. : No data available

n/a : not applicable

Nr : number

CAS : Chemical Abstracts Service

EINECS : European Inventory of Existing Commercial chemical Substances

WGK : Water hazard class

WGK 1 : slightly hazardous for water

WGK 2 : hazardous for water

WGK 3 : extremely hazardous for water

ADR : Accord européen relatif au transport international des marchandises Dangereuses par Route

TLV : Threshold Limit Value

PTB : persistent, toxic, bioaccumulative

vPvB : very persistent and very bioaccumulative substances

CLP : Classification , Labelling and Packaging of chemicals

Legend to the R & H Phrases used in the safety data sheet:

R22 Harmful if swallowed, R 36 Irritating to eyes, R 37 Irritating to respiratory system, R 38 Irritating to skin, R41 Serious damage to eyes.

Composition by regulation (EC) 648/2004:

Nonionic surfactants <5%, Perfumes This information is based on our current level of knowledge and relates to the product

in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.