

1 SECTION 1: Identification of the substance/mixture and of the company/undertaking:

1.1 Product identifier:

PLUMBO NATURENT BIOLOGICAL DRAIN CLEANER DOUBLE STRENGTH

Xæ\}!È30075 Á Á ÖVÖK7024110030750 WÖÖRG8-Y0WM-900H-WAV3

1.2 Relevant identified uses of the substance or mixture and uses advised against: Biological unblocker for pipes

Not recommended for purposes other than the uses for which the product is intended.

1.3 Details of the supplier of the safety data sheet:

KREFTING & CO. AS

Postboks 14

1314 Vøyenenga (Norge)

Phone: 67526085

E-mail: firmapost@krefting.no

Website: www.krefting.no

1.4 Emergency telephone number:

Poison Information Centre in UK: call 111 In Norway: +47 22591300

2 SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:

Classification of the substance or mixture in accordance with regulation (EU) 1272/2008:

H317 Skin Sens. 1

2.2 Label elements:

Pictograms:



Signal word:

Warning

Hazard statements:

H317 Skin Sens. 1: May cause an allergic skin reaction.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P261: Avoid breathing dust/vapours/spray.

P280: Wear protective gloves.

P302+P352: IF ON SKIN: Wash with plenty of water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Contains:

mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazolin-3-one (3:1)

2.3 Other hazards:

None

3 SECTION 3: Composition/information on ingredients:

cellulase	≤ 0.2 %	CAS number: 9012-54-8 EINECS: 232-734-4 REACH Registration number: 01-2119949289-21 CLP Classification: H334 Resp. Sens. 1
lipase	≤ 0.2 %	CAS number: 9001-62-1 EINECS: 232-619-9 REACH Registration number: 01-2119972939-13 CLP Classification: H334 Resp. Sens. 1
amylase	≤ 0.2 %	CAS number: 9000-90-2 EINECS: 232-565-6 REACH Registration number: 01-2119938627-26 CLP Classification: H334 Resp. Sens. 1
mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazolin-3-one (3:1)	≤ 0.002 %	CAS number: 55965-84-9 EINECS: 911-418-6 REACH Registration number: 01-2120764691-48 CLP Classification: H301 Acute tox. 3 H310 Acute tox. 2 H314 Skin Corr. 1B H317 Skin Sens. 1 H330 Acute tox. 2 H400 Aquatic Acute 1 H410 Aquatic Chronic 1

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

4 SECTION 4: First aid measures:

4.1 Description of first aid measures:

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

Skin contact:	Remove contaminated clothing, rinse skin with plenty of water, if necessary seek medical attention.
Eye contact:	Thoroughly rinse with water (contact lenses to be removed if this is easily done) then take to physician.
Ingestion:	Rinse mouth, do not induce vomiting, take to hospital immediately.
Inhalation:	Let sit upright, fresh air, rest and take to hospital.

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

Skin contact:	Redness, pain
Eye contact:	Redness, pain, blurred vision
Ingestion:	Diarrhoea, headache, abdominal cramps, sleepiness, vomiting
Inhalation:	Sore throat, cough, shortness of breath, headache

4.3 Indication of any immediate medical attention and special treatment needed:

None

5 SECTION 5: Fire-fighting measures:

5.1 Extinguishing media:

CO2, foam, powder, sprayed water

5.2 Special hazards arising from the substance or mixture:

None

5.3 Advice for firefighters:

Extinguishing agents to be avoided: None

6 SECTION 6: Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures:

Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up wind. Remove any contaminated clothing and used contaminated protective equipment and dispose of it safely.

6.2 Environmental precautions:

Do not allow to flow into sewers or open water.

6.3 Methods and material for containment and cleaning up:

Contain released substance, store into suitable containers. If possible, remove by using absorbent material.

6.4 Reference to other sections:

For further information, check sections 8 & 13.

7 SECTION 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.

7.3 Specific end use(s):

Biological unblokker for pipes

8 SECTION 8: Exposure controls/personal protection:

8.1 Control parameters:

Listing of the hazardous ingredients in section 3, of which the TLV value is known

cellulase 1 mg/m³

8.2 Exposure controls:

Inhalation protection:	If necessary, use an air-purifying face mask in case of respiratory hazards.	
Skin protection:	Handling with butyl-gloves (EN 374). Breakthrough time: >480' Material thickness: 0,7 mm. Thoroughly check gloves before use. Take of the gloves properly without touching the outside with your bare hands. The manufacturer of the protective gloves has to be consulted about the suitability for a specific work station. Wash and dry your hands.	
Eye protection:	Keep an eye-rinse bottle within reach. Tight-fitting safety goggles. Wear a face shield and protective suit in case of exceptional processing problems.	
Other protection:	Wear impermeable clothing. The type of protective equipment depends on the concentration and amount of hazardous substances at the work station in question.	

9 SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties:

Melting point/melting range:	0 °C
Boiling point/Boiling range:	100 °C — 100 °C
pH:	6.4
pH 1% diluted in water:	/
Vapour pressure/20°C,:	2 332 Pa
Vapour density:	Not applicable
Relative density, 20°C:	1.0000 kg/l
Appearance/20°C:	Liquid
Flash point:	/
Flammability (solid, gas):	Not applicable
Auto-ignition temperature:	/
Upper flammability or explosive limit, (Vol %):	/
Lower flammability or explosive limit, (Vol %):	/
Explosive properties:	Not applicable
Oxidising properties:	Not applicable
Decomposition temperature:	/
Solubility in water:	Completely soluble
Partition coefficient: n-octanol/water:	Not applicable
Odour:	characteristic

Odour threshold:	Not applicable
Dynamic viscosity, 20°C:	250 mPa.s
Kinematic viscosity, 40°C:	250 mm ² /s
Evaporation rate (n-BuAc = 1):	0.300

9.2 Other information:

Volatile organic component (VOC):	/
Volatile organic component (VOC):	0.799 g/l
Sustained combustion test :	/

10 SECTION 10: Stability and reactivity:

10.1 Reactivity:

Stable under normal conditions.

10.2 Chemical stability:

Extremely high or low temperatures.

10.3 Possibility of hazardous reactions:

None

10.4 Conditions to avoid:

Protect from sunlight and do not expose to temperatures exceeding + 50°C.

10.5 Incompatible materials:

Acids, alkalines, oxidants, reductants

10.6 Hazardous decomposition products:

Under recommended usage conditions, hazardous decomposition products are not expected.

11 SECTION 11: Toxicological information:

11.1 Information on toxicological effects:

H317 Skin Sens. 1: May cause an allergic skin reaction.

Calculated acute toxicity, ATE oral: /

Calculated acute toxicity, ATE dermal: /

cellulase	LD50 oral, rat: ≥ 5 000 mg/kg
	LD50 dermal, rabbit: ≥ 5 000 mg/kg
	LC50, Inhalation, rat, 4h: ≥ 50 mg/l
lipase	LD50 oral, rat: 2 000 mg/kg
	LD50 dermal, rabbit: ≥ 5 000 mg/kg
	LC50, Inhalation, rat, 4h: ≥ 50 mg/l

amylase	LD50 oral, rat: ≥ 5 000 mg/kg LD50 dermal, rabbit: ≥ 5 000 mg/kg LC50, Inhalation, rat, 4h: ≥ 50 mg/l
mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazolin-3-one (3:1)	LD50 oral, rat: 457 mg/kg LD50 dermal, rabbit: 660 mg/kg LC50, Inhalation, rat, 4h: 1.23 mg/l

12 SECTION 12: Ecological information:

12.1 Toxicity:

amylase	LC50 (Fish): >100 mg/l (96h) EC50 (Daphnia): >100 mg/l (48h) EC50 (Algae): >100 mg/l (72h)
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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 Bioaccumulative potential:

No additional data available

12.4 Mobility in soil:

Water hazard class, WGK (AwSV): 1

Solubility in water: Completely soluble

12.5 Results of PBT and vPvB assessment:

No additional data available

12.6 Other adverse effects:

No additional data available

13 SECTION 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 SECTION 14: Transport information:

14.1 UN number:

Not applicable

14.2 UN proper shipping name:

ADR, IMDG, ICAO/IATA not applicable

14.3 Transport hazard class(es):

Class(es): Not applicable

Identification number of the hazard: Not applicable

14.4 Packing group:

Not applicable

14.5 Environmental hazards:

Not dangerous to the environment

14.6 Special precautions for user:

Hazard characteristics: Not applicable

Additional guidance: Not applicable

15 SECTION 15: Regulatory information:

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

Water hazard class, WGK (AwSV): 1

Volatile organic component (VOC): /

Volatile organic component (VOC): 0.799 g/l

Composition by regulation (EC 648/2004): Nonionic surfactants < 5%, Enzymes < 5%, Perfumes, Preservatives (Chloromethylisothiazolone, Methylisothiazolone)

15.2 Chemical Safety Assessment:

No data available

16 SECTION 16: Other information:

Legend to abbreviations used in the safety data sheet:

ADR:	The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE:	Acute Toxicity Estimate
BCF:	Bioconcentration factor
CAS:	Chemical Abstracts Service
CLP:	Classification, Labelling and Packaging of chemicals
EINECS:	European Inventory of Existing commercial Chemical Substances
LC50:	median Lethal Concentration for 50% of subjects
LD50:	median Lethal Dose for 50% of subjects
Nr.:	Number
PTB:	Persistent, Toxic, Bioaccumulative
TLV:	Threshold Limit Value
UFI:	Unique Formula Identifier
vPvB:	very Persistent and very Bioaccumulative substances
WGK:	Water hazard class
WGK 1:	Slightly hazardous for water
WGK 2:	Hazardous for water
WGK 3:	Extremely hazardous for water

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

H301 Acute tox. 3: Toxic if swallowed. **H310 Acute tox. 2:** Fatal in contact with skin.
H314 Skin Corr. 1B: Causes severe skin burns and eye damage. **H317 Skin Sens. 1:** May cause an allergic skin reaction.
H330 Acute tox. 2: Fatal if inhaled. **H334 Resp. Sens. 1:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. **H400 Aquatic Acute 1:** Very toxic to aquatic life. **H410 Aquatic Chronic 1:** Very toxic to aquatic life with long lasting effects.

CLP Calculation method:

Calculation method

Reason of revision, changes of following items:

Section: 15.1

SDS reference number:

ECM-111538,00

This safety information sheet has been compiled in accordance with annex II/A of the regulation (EU) No 2015/830. Classification has been calculated in accordance with European regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care. We cannot, however, accept responsibility for damage, of any kind, that may be caused by using these data or the product concerned. To use this preparation for an experiment or a new application, the user must carry out a material suitability and safety study himself.