SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : 228 LANKOLASTIC (PARTIE B: LIQUIDE)
Product code : 228-B.

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

Refer to the technical data sheet
Liquid portion to mix with the powder
Waterproofing and protection.

1.3. Details of the supplier of the safety data sheet

Registered company name : PAREXGROUP S.A.
Address : 19, place de la résistance - CS 50053.92445.Issy les Moulineaux Cedex.France.
Telephone : (33)01.41.17.20.00. Fax : 01.41.17.21.30.
fds.matiere-fr@parex-group.com
www.parexlanko.com
For UK : Emergency telephone number : 01827 711755 (Mon - Fri 08:30 - 16:30).

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA http://www.centres-antipoison.net.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

May produce an allergic reaction (EUH208).
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Additional labeling :

EUH208	Contains 1,2-BENZISOTHIAZOL-3(2H)-ONE. May produce an allergic reaction.
EUH208	Contains 2-METHYL-2H-ISOTHIAZOL-3-ONE. May produce an allergic reaction.
EUH208	Contains REACTION MASS OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1). May produce an allergic reaction.

Precautionary statements - General :

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

2.3. Other hazards

The mixture does not contain substances classified as ‘Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table
The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	Note	%
INDEX: 613_088_006C CAS: 2634-33-5 EC: 220-120-9 REACH: 01-2120761540-60 1,2-BENZISOTHIAZOL-3(2H)-ONE	GHS06, GHS05, GHS09 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Acute Tox. 2, H330		0 <= x % < 2.5

	Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 1		
INDEX: 2767 CAS: 2682-20-4 EC: 220-239-6 REACH: 01-2120764690-50 2-METHYL-2H-ISOTHIAZOL-3-ONE	GHS06, GHS05, GHS09 Dgr Acute Tox. 3, H301 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 1		0 <= x % < 2.5
INDEX: 613_167_00_5 CAS: 55965-84-9 EC: 611-341-5 REACH: 01-2120764691-48 REACTION MASS OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL -3-ONE [EC NO. 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1)	GHS06, GHS05, GHS09 Dgr Acute Tox. 3, H301 Acute Tox. 2, H310 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 M Acute = 100 Aquatic Chronic 1, H410 M Chronic = 10		0 <= x % < 2.5

(Full text of H-phrases: see section 16)

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation :

In case of massive inhalation, remove patient to fresh air and keep warm and at rest.

In the event of splashes or contact with eyes :

Rinse IMMEDIATELY with plenty of water for at least 15 minutes holding the eyelids open. Move the eyes in every direction to make sure that all product traces have been removed. Consult an eye doctor.

In the event of splashes or contact with skin :

In the event of an allergic reaction, seek medical attention.
Remove surplus of product. Wash the skin with soapy water . Change clothes if necessary. A prolonged contact can cause irritations.

In the event of swallowing :

After swallowing, immediately rinse mouth and drink plenty of water, immediately transfer to hospital and show the label or product safety data sheet.

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

No data available.

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

Specific and immediate treatment :

Wash copiously with water.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

The product itself is not combustible; define the extinguishing means according to a nearby fire. Eliminate residues combustion and contaminated water in accordance with local regulations.

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.
In the event of a fire, the following may be formed :
- carbon monoxide (CO)
- carbon dioxide (CO2)

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.
Slipping settling formation.
Non-slip boots should be worn.

For non first aid worker

Handle with appropriate clothing (gloves, coveralls, boots ...).

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Collect the product and deposit it in a suitable container. Absorb residues with sand and sawdust. Clean traffic areas with hot water and detergent.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.
Remove and wash contaminated clothing before re-using.
Provide a proximity water position in case of regular use
Handle preferably in sufficiently ventilated premises

Recommended equipment and procedures :

For personal protection, see section 8.
Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.
Store in dry, frost-free conditions in original packaging.
Protect temperatures below 5 ° C and above 60 ° C.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No data available.

8.2. Exposure controls

Appropriate engineering controls

Avoid contact with mucous membranes, eyes and hands.

Personnel shall wear regularly laundered overalls.
Provide proximity water position in case of regular use.

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :

Use personal protective equipment that is clean and has been properly maintained.
Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.
Use eye protectors designed to protect against liquid splashes
Before handling, wear safety goggles in accordance with standard EN166.
Envisage in the vicinity a clean water container or an ocular fountain in the event of projection in the eyes
Corrective eyewear is not a protection.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.
Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.
Type of gloves recommended :
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- Butyl Rubber (Isobutylene-isoprene copolymer)
- Neoprene® (Polychloroprene)
Recommended properties :
- Impervious gloves in accordance with standard EN374

- Body protection

Work clothing worn by personnel shall be laundered regularly.
Avoid a prolonged contact.
Working closed clothes.
In case of contact, all parts of the body wich have come into contact with the product must be washed thoroughly with soap and water.

- Thermal risks

The substance shows no thermal hazard.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state :	Fluid liquid.

Important health, safety and environmental information

pH (aqueous solution) :	7,5 - 8,5
pH :	Not stated.
	Slightly basic.
Boiling point/boiling range :	Not relevant.
Flash point interval :	Not relevant.
Vapour pressure (50°C) :	Not relevant.
Density :	0,97 - 1,07
Water solubility :	Dilutable.
Viscosity :	80-180 Pa.s
Melting point/melting range :	Not relevant.
Self-ignition temperature :	Not relevant.
Decomposition point/decomposition range :	Not relevant.

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid :
- frost

Avoid extreme temperatures.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :
- carbon monoxide (CO)
- carbon dioxide (CO2)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No data available.

11.1.1. Substances

Acute toxicity :

REACTION MASS OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239
(3:1) (CAS: 55965-84-9)

Oral route :	LD50 = 66 mg/kg Species : Rat OECD Guideline 401 (Acute Oral Toxicity)
Dermal route :	LD50 > 141 mg/kg Species : Rat OECD Guideline 402 (Acute Dermal Toxicity)
Inhalation route (n/a) :	LC50 > 5 mg/l

2-METHYL-2H-ISOTHIAZOL-3-ONE (CAS: 2682-20-4)

Oral route :	LD50 = 120 mg/kg Species : Rat
Dermal route :	LD50 > 2000 mg/kg Species : Rat

1,2-BENZISOTHIAZOL-3(2H)-ONE (CAS: 2634-33-5)

Oral route :	LD50 = 532 mg/kg Species : Rat
Dermal route :	LD50 > 2000 mg/kg Species : Rat
Inhalation route (n/a) :	LC50 = 0.4 mg/l Species : Rat

11.1.2. Mixture

Respiratory or skin sensitisation :

Contains at least one sensitising substance. May cause an allergic reaction.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

2-METHYL-2H-ISOTHIAZOL-3-ONE (CAS: 2682-20-4)

Fish toxicity :	Species : Pimephales promelas
Crustacean toxicity :	Species : Daphnia magna

Algae toxicity : Duration of exposure : 72 h

Species : Pseudokirchnerella subcapitata

REACTION MASS OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239
(3:1) (CAS: 55965-84-9)

Fish toxicity : LC50 = 0.22 mg/l
Species : Oncorhynchus mykiss
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

NOEC = 0.098 mg/l
Species : Oncorhynchus mykiss
Duration of exposure : 28 days
OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test)

Crustacean toxicity : EC50 = 0.1 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC = 0.004 mg/l
Species : Daphnia magna
Duration of exposure : 21 days
OECD Guideline 211 (Daphnia magna Reproduction Test)

Algae toxicity : ECr50 0.0052 mg/l
Factor M = 100
Species : Skeletonema costatum
Duration of exposure : 48 h
ISO 10253 (Water quality - Marine Algal Growth Inhibition Test with Skeletonema costatum and Phaeodactylum tricornutum)

NOEC = 0.00064 mg/l
Factor M = 10
Species : Skeletonema costatum
Duration of exposure : 48 h
ISO 10253 (Water quality - Marine Algal Growth Inhibition Test with Skeletonema costatum and Phaeodactylum tricornutum)

12.1.2. Mixtures

12.2. Persistence and degradability

12.2.1. Substances

REACTION MASS OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239
(3:1) (CAS: 55965-84-9)

Biodegradability : Rapidly degradable.

2-METHYL-2H-ISOTHIAZOL-3-ONE (CAS: 2682-20-4)

Biodegradability : Rapidly degradable.

1,2-BENZISOTHIAZOL-3(2H)-ONE (CAS: 2634-33-5)

Biodegradability : Rapidly degradable.

12.3. Bioaccumulative potential

12.3.1. Substances

REACTION MASS OF: 5-CHLORO-2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 247-500-7] AND 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239
(3:1) (CAS: 55965-84-9)

Octanol/water partition coefficient : log Koe <= 0.71
OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

Bioaccumulation : BCF = 3.16

2-METHYL-2H-ISOTHIAZOL-3-ONE (CAS: 2682-20-4)

Octanol/water partition coefficient :	log Koe <= 0.32 OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Bioaccumulation :	BCF = 3.16

1,2-BENZISOTHIAZOL-3(2H)-ONE (CAS: 2634-33-5)

Octanol/water partition coefficient :	log Koe = 0.7 OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Bioaccumulation :	BCF = 6.95 OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

14.1. UN number

-

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

SECTION 15 : REGULATORY INFORMATION

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2016/1179. (ATP 9)

- Container information:

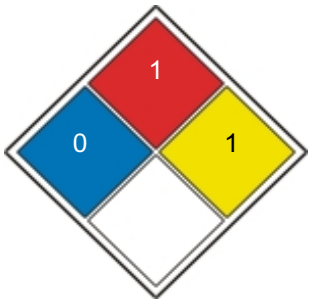
No data available.

- Particular provisions :

No data available.

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

NFPA 704, Labelling: Health=0 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.
IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
ICAO : International Civil Aviation Organisation
RID : Regulations concerning the International carriage of Dangerous goods by rail.
PBT: Persistent, bioaccumulable and toxic.
vPvB : Very persistent, very bioaccumulable.
SVHC : Substances of very high concern.