

SAFETY DATA SHEET

MUR-RENS

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

1.1. Product identifier

Trade name

MUR-RENS

Product no.

5022

Unique formula identifier (UFI)

P5WE-5004-100V-2TNF

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

Relevant identified uses of the substance or mixture

Acid detergent, Lime and rust remover

Restricted to professional users.

Use descriptors (REACH)

Sectors of use	Description
LCS "PW"	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Product category	Description
PC 35	Washing and Cleaning Products (including solvent based products)
Process category	Description
PROC 8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

Knud E. Dan A/S

Lunikvej 40

2670 Greve

Denmark

+45 43692422

+45 43690578

Contact person

Lars Bøgeholm

E-mail

lbj@knudedan.dk

Revision

18/01/2024

SDS Version

1.0

1.4. Emergency telephone number

Contact the poison hotline: +45 82 12 12 12 (24 hour service)

See section 4 "First aid measures".

SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP).

2.1. Classification of the substance or mixture

Skin Corr. 1; H314, Causes severe skin burns and eye damage.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s)

General

-

Prevention

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

Storage

-

Disposal

-

Hazardous substances

orthophosphoric acid

hydrogen chloride

Alcohols, C9-11 ethoxylated, primær linier

Additional labelling

UFI: P5WE-5004-100V-2TNF

Labelling of contents according to Detergents Regulation (EC) No 648/2004

5% - 15%

· Non-ionic surfactants

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
orthophosphoric acid	CAS No.: 7664-38-2 EC No.: 231-633-2 REACH: 01-2119485924-24-XXXX Index No.: 015-011-00-6	10-15%	Skin Corr. 1B, H314 (SCL: 25.00 %) Skin Irrit. 2, H315 (SCL: 10.00 %) Eye Irrit. 2, H319 (SCL: 10.00 %)	[1]
2-(2-butoxyethoxy)ethanol	CAS No.: 112-34-5 EC No.: 203-961-6 REACH: 01-2119475104-xxxx Index No.: 603-096-00-8	5-10%	Eye Irrit. 2, H319	[1], [3]
hydrogen chloride	CAS No.: 7647-01-0 EC No.: 231-595-7 REACH: Index No.: 017-002-00-X	5-10%	Skin Corr. 1B, H314 (SCL: 25.00 %) Skin Irrit. 2, H315 (SCL: 10.00 %) Eye Dam. 1, H318 (SCL: 25.00 %) Eye Irrit. 2, H319 (SCL: 10.00 %) STOT SE 3, H335 (SCL: 10.00 %)	[1]

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Alcohols, C9-11 ethoxylated, primær linier	CAS No.: 68439-46-3 EC No.: REACH: Index No.:	3-5%	Acute Tox. 4, H302 Eye Dam. 1, H318	[19]
Alkylalkohol, ethoxileret	CAS No.: 68439-46-3 EC No.: REACH: Index No.:	1-3%	Eye Irrit. 2, H319	[19]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit.

[3] According to REACH, Annex XVII, the substance is subject to restrictions.

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment. Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

Eye contact

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable.

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are

exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Halogenated compounds

Carbon oxides (CO / CO₂)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the chemical emergency services on 72 85 20 00 (24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Keep only in original packaging.

Storage temperature

5 - 25 °C

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

orthophosphoric acid

Long term exposure limit (8 hours) (mg/m³): 1

Short term exposure limit (15 minutes) (mg/m³): 2

Annotations:

E = Substance has an EC limit.

2-(2-butoxyethoxy)ethanol

Long term exposure limit (8 hours) (mg/m³): 68

Long term exposure limit (8 hours) (ppm): 10

Short term exposure limit (15 minutes) (mg/m³): 101

Short term exposure limit (15 minutes) (ppm): 15

Annotations:

E = Substance has an EC limit.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

hydrogen chloride
Short term exposure limit (15 minutes) (mg/m³): 8
Short term exposure limit (15 minutes) (ppm): 5
Annotations:
E = Substance has an EC limit.

Statutory order 202 on exposure limits for substances and mixtures (21/02/2023)

DNEL

2-(2-butoxyethoxy)ethanol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	10 mg/kg uge/dag
Long term – Systemic effects - Workers	Dermal	20 mg/kg/ uge/dag
Long term – Local effects	Inhalation	5 mg/m ³
Long term – Local effects - Workers	Inhalation	10 ppm
Long term – Local effects - Workers	Inhalation	67.5 mg/m ³
Long term – Systemic effects - General population	Inhalation	5 mg/kg uge/dag
Long term – Systemic effects - Workers	Inhalation	10 ppm
Short term – Local effects - General population	Inhalation	7,5 ppm
Short term – Local effects - Workers	Inhalation	14 ppm
Short term – Local effects - Workers	Inhalation	101.2 mg/m ³
Long term – Systemic effects - General population	Oral	6.25 mg/kg bw/day
Short term	Oral	1,3 mg/kg uge/dag

Alkylalkohol, ethoxyleret

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	1250 mg/kg
Long term – Systemic effects - Workers	Dermal	2080 mg/kg
Long term – Systemic effects - General population	Inhalation	87 mg/m ³
Long term – Systemic effects - Workers	Inhalation	294 mg/m ³
Long term – Systemic effects - General population	Oral	25 mg/kg

orthophosphoric acid

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	360 µg/m ³
Long term – Local effects - Workers	Inhalation	1 mg/m ³
Long term – Systemic effects - General population	Inhalation	4.57 mg/m ³
Long term – Systemic effects - Workers	Inhalation	10.7 mg/m ³
Short term – Local effects - Workers	Inhalation	2 mg/m ³
Long term – Systemic effects - General population	Oral	100 µg/kgbw/day

PNEC

2-(2-butoxyethoxy)ethanol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		1 mg/l
Freshwater		1.1 mg/L
Freshwater sediment		4 mg/l
Freshwater sediment		4.4 mg/kg
Intermittent release (freshwater)		11 mg/L
Marine water		0,1 mg/l
Marine water		110 µg/L

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Marine water sediment	0,4 mg/l
Marine water sediment	440 µg/kg
Sewage treatment plant	200 mg/l
Soil	0,4 mg/l
Alkylalkohol, ethoxyleret	
Route of exposure:	Duration of Exposure: PNEC:
Freshwater	0,104 mg/l
Freshwater sediment	13,7 mg/kg
Marine water	0,104 mg/kg
Marine water sediment	13,7 mg/kg
Sewage treatment plant	1,4 mg/l
Soil	1 mg/kg

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.



Individual protection measures, such as personal protective equipment

Generally


Wash contaminated clothing before reuse.

Use only CE marked protective equipment.

Respiratory Equipment




Work situation	Type	Class	Colour	Standards	
In case of inadequate ventilation	B	Class 2 (medium capacity)	Gray	EN14387	
In case of inadequate ventilation	E	Class 2 (medium capacity)	Yellow	EN14387	

Skin protection

Recommended	Type/Category	Standards	
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	-	-	

Hand protection

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Butyl	0,3	> 480	EN374-2, EN374-3, EN388	
Nitrile	0,3	> 480	EN374-2, EN374-3, EN388	
Eye protection				
Type	Standards			
Safety glasses with side shields.	EN166			

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Red

Odour / Odour threshold

Acidic

pH

<2

Density (g/cm³)

1,08-1,1

Kinematic viscosity

Testing not relevant or not possible due to the nature of the product.

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

Testing not relevant or not possible due to the nature of the product.

Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

Boiling point (°C)

100

Vapour pressure

Testing not relevant or not possible due to the nature of the product.

Relative vapour density

Testing not relevant or not possible due to the nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to nature of the product.

Flammability (°C)

Testing not relevant or not possible due to the nature of the product.

Auto-ignition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to the nature of the product.

Solubility

Solubility in water

Completely soluble

n-octanol/water coefficient (LogKow)

Testing not relevant or not possible due to the nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

9.2. Other information

Other physical and chemical parameters

No data available.

Oxidizing properties

Testing not relevant or not possible due to the nature of the product.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	orthophosphoric acid
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	2740 mg/kg ·

Product/substance	orthophosphoric acid
Species:	Rabbit
Route of exposure:	Dermal
Result:	ætsende virkning ·

Product/substance	orthophosphoric acid
Species:	Rat
Route of exposure:	Oral
Test:	LC50
Result:	300-2000 mg/kg

Product/substance	orthophosphoric acid
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50 (2 hours)
Result:	850 mg/L

Product/substance	2-(2-butoxyethoxy)ethanol
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	2700 mg/kg ·

Product/substance	2-(2-butoxyethoxy)ethanol
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	5660 mg/kg ·

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product/substance	hydrogen chloride
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	277 mg/kg ·

Product/substance	hydrogen chloride
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	4,2 mg/l ·

Product/substance	hydrogen chloride
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>5010 mg/kg ·

Product/substance	Alkylalkohol, ethoxyleret
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>2000 mg/kg ·

Product/substance	Alkylalkohol, ethoxyleret
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	> 2000 mg/kg ·

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

Product/substance	Alkylalkohol, ethoxyleret
Test method:	OECD 406
Species:	Guinea pig
Result:	No adverse effect observed (not sensitising)

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

hydrogen chloride has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance orthophosphoric acid
Species: Fish
Duration: 96 hours
Test: LC50
Result: 138 mg/l ·

Product/substance orthophosphoric acid
Species: Daphnia
Duration: 48 hours
Test: EC50
Result: > 100 mg/L

Product/substance orthophosphoric acid
Species: Algae, Desmodesmus subspicatus
Duration: 72 hours
Test: EC50
Result: >100 mg/L

Product/substance 2-(2-butoxyethoxy)ethanol
Species: Fish
Duration: 96 hours
Test: LC50
Result: 1300 mg/l ·

Product/substance 2-(2-butoxyethoxy)ethanol
Species: Daphnia
Duration: 24 hours
Test: LD50
Result: 3200 mg/l ·

Product/substance 2-(2-butoxyethoxy)ethanol
Species: Algae
Duration: 96 hours
Test: LD50
Result: >100 mg/l ·

Product/substance hydrogen chloride
Species: Fish
Duration: 96 hours
Test: LC50
Result: 7,45 mg/l ·

Product/substance hydrogen chloride
Species: Fish
Duration: 96 hours
Test: LC50
Result: 24,6 mg/l ·

Product/substance hydrogen chloride
Species: Daphnia
Duration: 48 hours
Test: LD50
Result: 0,492 mg/l ·

Product/substance hydrogen chloride
Species: Algae
Duration: 72 hours
Test: LD50
Result: 0,78 mg/l ·

Product/substance Alcohols, C9-11 ethoxylated, primær linier

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	23,7 mg/l ·

Product/substance	Alcohols, C9-11 ethoxylated, primær linier
Species:	Algae
Duration:	48 hours
Test:	EC50
Result:	13,4 mg/l ·

Product/substance	Alkylalkohol, ethoxyleret
Species:	Daphnia
Duration:	48 hours
Test:	LD50
Result:	13,4 mg/l ·

Product/substance	Alkylalkohol, ethoxyleret
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	1 -10 mg/L

Product/substance	Alkylalkohol, ethoxyleret
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	1-10 mg/L

12.2. Persistence and degradability

Product/substance	2-(2-butoxyethoxy)ethanol
Result:	90-100
Conclusion:	Readily biodegradable
Test:	TG 301 E- Test Modified OECD Screening Test -70%

Product/substance	Alcohols, C9-11 ethoxylated, primær linier
Result:	>60 %
Conclusion:	Readily biodegradable
Test:	TG 301 F - Manometric Respirometry Test - 60%

Product/substance	Alkylalkohol, ethoxyleret
Result:	>60
Conclusion:	Readily biodegradable
Test:	OECD 301 D

12.3. Bioaccumulative potential

Product/substance	orthophosphoric acid
Conclusion:	No potential for bioaccumulation

Product/substance	2-(2-butoxyethoxy)ethanol
LogKow:	0,5600
Conclusion:	No potential for bioaccumulation

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)

HP 8 – Corrosive

Dispose of contents/container to an approved waste disposal plant.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

07 06 99

Wastes not otherwise specified




Specific labelling

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN1760	CORROSIVE LIQUID, N.O.S. (orthophosphoric acid, hydrogen chloride)	Transport hazard class: 8 Label: 8 Classification code: C9 	III	No	Limited quantities: 5 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1760	CORROSIVE LIQUID, N.O.S. (orthophosphoric acid, hydrogen chloride)	Transport hazard class: 8 Label: 8 Classification code: C9 	III	No	Limited quantities: 5 L EmS: F-A S-B See below for additional information.
IATA	UN1760	CORROSIVE LIQUID, N.O.S. (orthophosphoric acid, hydrogen chloride)	Transport hazard class: 8 Label: 8 Classification code: C9 	III	No	See below for additional information.

* Packing group

** Environmental hazards

Additional information

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.
People under the age of 18 shall not be exposed to this product.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

hydrogen chloride

Regulation on drug precursors

hydrogen chloride is included (Category 3)

REACH, Annex XVII

2-(2-butoxyethoxy)ethanol is subject to REACH restrictions, REACH annex XVII (entry 55).

Labelling of contents according to Detergents Regulation (EC) No 648/2004

5% - 15%

· Non-ionic surfactants

Product registration number

1751288

Additional information

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Sources

The Danish Working Environment Authority's executive order no. 1049 of 30 May 2021 on young people's work.

Based on Council Directive 94/33 / EC of 22 June 1994 on the protection of young people at work.

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Executive Order no. 372 of 25 April 2016 on control of the risk of major accidents with dangerous substances.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Council Regulation (EC) No 273/2004 on drug precursors.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H335, May cause respiratory irritation.

The full text of identified uses as mentioned in section 1

LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

PROC 8a = Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PC 35 = Washing and Cleaning Products (including solvent based products)

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The classification of the substance/mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

lbj

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

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