

SAFETY DATA SHEET

PLUMBO RENGJØRING FETTLØSER

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

1.1. Product identifier

Trade name

PLUMBO RENGJØRING FETTLØSER

Product no.

33022, 3022

Unique formula identifier (UFI)

JX71-91YY-S00X-YHU2

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

Relevant identified uses of the substance or mixture

Cleaning product

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

Krefting & Co AS

Postboks 14

1314 Vøyenenga

Norway

+47 67526085

<http://www.krefting.no/>

Contact person

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Revision

10/4/2023

SDS Version

3.0

Date of previous version

10/4/2023 (3.0)

1.4. Emergency telephone number

In urgent situations: Call 113 and request the poison information centre. (24h service)

Poison Center at Tel.: + 47 22 59 13 00

See section 4 on 'First Aid Measures'

SECTION 2: Hazards identification

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

2.1. Classification of the substance or mixture

Eye Irrit. 2; H319, Causes serious eye irritation.

2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

Causes serious eye irritation. (H319)

Precautionary statement(s)

General

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

Keep out of reach of children. (P102)

Prevention

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

Response

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

Continue rinsing. (P305+P351+P338)

If eye irritation persists: Get medical advice/attention. (P337+P313)

Storage

-

Disposal

Dispose of contents/container in accordance with local regulation (P501)

Hazardous substances

Alcohols, C9-11, ethoxylated

PINE, EXT.

Additional labelling

EUH208, Contains Pine, e.g. Can cause an allergic reaction.

UFI: JX71-91YY-S00X-YHU2

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

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 |
|---|--|--------|--|------|
| Alcohols, C12-14 (even numbered), ethoxylated propoxylated (>2.5 moles EO/PO) | CAS No.: 68439-51-0 EC No.: 931-986-9 REACH: Index No.: | 3 -5 % | Aquatic Chronic 3, H412 | [19] |
| Alcohols, C9-11, ethoxylated | CAS No.: 68439-46-3 EC No.: 614-482-0 REACH: Index No.: | 1 -3 % | Acute Tox. 4, H302 Eye Dam. 1, H318 | [19] |
| METYL LAURAT | CAS No.: 111-82-0 EC No.: 203-911-3 REACH: 01-2119487989-06-XXXX | 1 -3 % | Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411 | |

| Index No.: | | | | |
|---------------|-------------------------|-------|---|-----|
| PINE, EXT. | CAS No.: 94266-48-5 | < 1 % | Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 | |
| | EC No.: 304-455-9 | | | |
| | REACH: | | | |
| | Index No.: | | | |
| 2-Aminoetanol | CAS No.: 141-43-5 | <0,1% | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT SE 3, H335 Aquatic Chronic 3, H412 | [1] |
| | EC No.: 205-483-3 | | | |
| | REACH: 01-2119486455-28 | | | |
| | Index No.: 603-030-00-8 | | | |

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.

[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

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

Eye contact

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Not applicable.

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get 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

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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:

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 National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

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

> 0°C

Incompatible materials

Strong acids

Strong oxidizing 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

2-Aminoethanol

Long term exposure limit (8 hours) (mg/m³): 2,5

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

Long term exposure limit (8 hours) (ppm): 1

Annotations:

E = The EU has set an indicative limit value for the substance.

H = Special risk of dermal absorption.

Regulations concerning action and limit values for physical and chemical agents in the working environment and classified biological agents (Regulations concerning Action and Limit values) FOR-2011-12-06-1358. Last update: FOR-2023-03-24-412.

DNEL

2-Aminoetanol

| Duration: | Route of exposure: | DNEL: |
|---|--------------------|-----------------------|
| Long term – Systemic effects - General population | Dermal | 1.5 mg/kg bw/day |
| Long term – Systemic effects - Workers | Dermal | 3 mg/kg bw/day |
| Long term – Local effects - General population | Inhalation | 280 µg/m ³ |
| Long term – Local effects - Workers | Inhalation | 510 µg/m ³ |
| Long term – Systemic effects - General population | Inhalation | 180 µg/m ³ |
| Long term – Systemic effects - Workers | Inhalation | 1 mg/m ³ |
| Long term – Systemic effects - General population | Oral | 1.5 mg/kg bw/day |

Alcohols, C9-11, ethoxylated

| Duration: | Route of exposure: | DNEL: |
|---|--------------------|-----------------------|
| Long term – Systemic effects - General population | Dermal | 1250 mg/kg bw/day |
| Long term – Systemic effects - Workers | Dermal | 2080 mg/kg bw/day |
| 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 bw/day |

PNEC

No data available.

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.

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. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.


Individual protection measures, such as personal protective equipment

Generally


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

Use only CE marked protective equipment.


Respiratory Equipment

| Work situation | Type | Class | Colour | Standards | |
|---|-------------------------|-------|-------------|---------------|---|
| In the event of prolonged exposure or high concentrations | Combination filter AXP3 | | Brown/White | EN14387, E143 |  |


Skin protection

| Recommended | Type/Category | Standards | |
|---|---------------|-----------|---|
| Dedicated work clothing should be worn. | - | - |  |

Hand protection

| Work situation | Material | Glove thickness (mm) | Breakthrough time (min.) | Standards | |
|---|----------|----------------------|--------------------------|-----------|---|
| In the event of prolonged exposure or high concentrations | Nitrile | - | - | EN374-2 |  |

Eye protection

| Type | Standards | |
|------|-----------|---|
| | EN 166 |  |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Red

Odour / Odour threshold

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

pH

-

pH in solution

11 -11,5 (100%)

Density (g/cm³)

1

Kinematic viscosity

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

Particle characteristics

Not applicable - product is a liquid

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)

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

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 the 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

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

n-octanol/water coefficient

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

Produktet er stabilt ved anbefalt lagring og bruk

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Sterke syrer, sterke baser, sterke oksideringsmidler og sterke reduksjonsmidler.

10.6. Hazardous decomposition products

Brytes ikke ned ved vanlig bruk

SECTION 11: Toxicological information

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

Acute toxicity

| | |
|--------------------|---|
| Product/substance | Alcohols, C12-14 (even numbered), ethoxylated propoxylated (>2.5 moles EO/PO) |
| Species: | Rat |
| Route of exposure: | Oral |
| Test: | LD50 |
| Result: | >2000 mg/L |

Skin corrosion/irritation

| | |
|-------------------|---|
| Product/substance | Alcohols, C12-14 (even numbered), ethoxylated propoxylated (>2.5 moles EO/PO) |
| Result: | Adverse effect observed (Slightly irritating) |

| | |
|-------------------|--------------------------------------|
| Product/substance | PINE, EXT. |
| Result: | Adverse effect observed (Irritating) |

Serious eye damage/irritation

| | |
|-------------------|---|
| Product/substance | Alcohols, C12-14 (even numbered), ethoxylated propoxylated (>2.5 moles EO/PO) |
| Result: | Adverse effect observed (Slightly irritating) |

| | |
|-------------------|--------------------------------------|
| Product/substance | PINE, EXT. |
| Result: | Adverse effect observed (Irritating) |

Causes serious eye irritation.

Respiratory sensitisation

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

Skin sensitisation

| | |
|-------------------|---|
| Product/substance | Alcohols, C12-14 (even numbered), ethoxylated propoxylated (>2.5 moles EO/PO) |
| Result: | No adverse effect observed (not sensitising) |

| | |
|-------------------|---------------------------------------|
| Product/substance | PINE, EXT. |
| Result: | Adverse effect observed (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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Endocrine disrupting properties

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

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

| | |
|-------------------|---|
| Product/substance | Alcohols, C12-14 (even numbered), ethoxylated propoxylated (>2.5 moles EO/PO) |
| Test method: | OECD 203 |
| Species: | Fish, Poecilia reticulata |

| | |
|-------------------|---|
| Duration: | 96 hours |
| Test: | LC50 |
| Result: | >1-10 mg/L |
| Product/substance | Alcohols, C12-14 (even numbered), ethoxylated propoxylated (>2.5 moles EO/PO) |
| Test method: | OECD 201 |
| Species: | Algae, <i>Desmodesmus subspicatus</i> |
| Duration: | 72 hours |
| Test: | EC50 |
| Result: | >1-10 mg/L |
| Product/substance | Alcohols, C12-14 (even numbered), ethoxylated propoxylated (>2.5 moles EO/PO) |
| Species: | Daphnia, <i>Daphnia magna</i> |
| Duration: | 48 hours |
| Test: | EC50 |
| Result: | >1-10 mg/L |
| Product/substance | METYLLAURAT |
| Test method: | ISO 7346/2 |
| Species: | Fish, <i>Leuciscus idus</i> |
| Duration: | 96 hours |
| Result: | >100 mg/L |
| Product/substance | METYLLAURAT |
| Test method: | OECD 202 |
| Species: | Daphnia, <i>Daphnia magna</i> |
| Duration: | 21 days |
| Result: | >0,1-1 mg/L |

12.2. Persistence and degradability

| | |
|-------------------|------------|
| Product/substance | PINE, EXT. |
| Biodegradable: | Yes |
| Test method: | OECD 301 D |
| Result: | >90% |

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.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

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

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is not covered by regulations on dangerous waste.

Disposal to the sewer is discouraged.

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

EWC code

20 01 29* Detergents containing dangerous substances

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 | - | - | - | - | - | - |
| IMDG | - | - | - | - | - | - |
| IATA | - | - | - | - | - | - |

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

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

No special.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

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

< 5% Parfumer

Product registration number

305356

Declaration of chemicals

If the product is imported or produced in more than 100 kg/year it is subject to registration in the Product Register because it is classified as hazardous.

Additional information

Not applicable.

Sources

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

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

Regulation of 15 May 2015 no. 541 on declaring chemicals to the product register (Declaration Regulations)

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.
H304, May be fatal if swallowed and enters airways.
H312, Harmful 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.
H319, Causes serious eye irritation.
H332, Harmful if inhaled.
H335, May cause respiratory irritation.
H400, Very toxic to aquatic life.
H411, Toxic to aquatic life with long lasting effects.
H412, Harmful to aquatic life with long lasting effects.

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).

NOBB No.: 42026596

▼ The [safety data sheet](#) is validated by

Manish Budathoki

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.

Country-language: NO-en