SAFETY DATA SHEET

Rustløsner CA-222

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

1.1. Product identifier

Trade name

Rustløsner CA-222

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

Relevant identified uses of the substance or mixture

Industrial purposes

Use descriptors (REACH)

Sectors of use	**Description**
LCS "PW"	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Product category	**Description**
PC 24	Lubricants, Greases and Release Products
Process category	**Description**
PROC 5	Mixing or blending in batch PROC esses for formulation of preparations and articles (multistage and/or significant contact)
Environmental release category	**Description**
ERC 8a	Wide dispersive indoor use of processing aids in open systems

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

▼Company and address

Pureno A/S
Gefionsvej 20
3400 Hillerød
Denmark
+45 70 260 267

▼Contact person

Lars Skaarup

▼E-mail

ls@pureno.dk

Revision

07/10/2024

SDS Version

3.0

Date of previous version

01/11/2023 (2.0)

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

Aerosol 3; H229, Pressurised container: May burst if heated.

2.2. Label elements

Hazard pictogram(s)

Not applicable.

Signal word

Warning

Hazard statement(s)

Pressurised container: May burst if heated. (H229)

Precautionary statement(s)

General

Keep out of reach of children. (P102)

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)
Do not pierce or burn, even after use. (P251)

Response

-

Storage

Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122°F. (P410+P412)

Disposal

-

Hazardous substances

None known.

Additional labelling

Not applicable.

VOC

VOC content: 0 g/L
MAXIMUM VOC CONTENT (Phase II, category A/i (SB): 500 g/L)

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) 2023/707.

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
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	CAS No.: EC No.: 918-481-9 REACH: 01-2119457273-39-XXXX Index No.:	40-60%	EUH066 Asp. Tox. 1, H304	
carbon dioxide	CAS No.: 124-38-9 EC No.: 204-696-9 REACH: Index No.:	5-10%	Press. Gas (Liq.) , H280	[1]

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.

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

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and 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

None known.

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

Treat symptomatically.

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

Pressurised container. In a fire or if heated, a pressure increase will occur and the container may burst.
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 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

No specific requirements.

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

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.
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
Do not pierce or burn, even after use.
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
Recommended storage material
Always store in containers of the same material as the original container.
Storage conditions
> 0°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
carbon dioxide
Long term exposure limit (8 hours) (mg/m^3): 9000
Long term exposure limit (8 hours) (ppm): 5000
Short term exposure limit (15 minutes) (mg/m^3): 18000
Short term exposure limit (15 minutes) (ppm): 10000
Annotations:
E = Substance has an EC limit.

Statutory order 291 on exposure limits for substances and mixtures (19/03/2024)

DNEL
No data available.
PNEC
No data available.

8.2. ▼Exposure controls
Apply general control to prevent unnecessary exposure
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
Occupational exposure limits have not been defined for the substances in this product.
Appropriate technical measures
Apply standard precautions during use of the product. Avoid inhalation of gas or dust.
▼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
No specific requirements.
Individual protection measures, such as personal protective equipment
Generally
Use only CE marked protective equipment.
Respiratory Equipment

Type	Class	Colour	Standards
No specific requirements			

Skin protection

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

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
No special when used as intended	-	-	-

Eye protection

Type	Standards	
In the likelihood of direct or incidental exposure, use eye protection.	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Aerosol

Colour
Black

Odour / Odour threshold
Aromatic

▼pH
No relevant or available data due to the nature of the product.

Density (g/cm^3)
0.85

▼Kinematic viscosity
No relevant or available data due to the nature of the product.

▼Particle characteristics
No relevant or available data due to the nature of the product.

Phase changes

▼Melting point/Freezing point (°C)
No relevant or available data due to the nature of the product.

Softening point/range (°C)
Does not apply to aerosols.

Boiling point (°C)
1

▼Vapour pressure
No relevant or available data due to the nature of the product.

▼Relative vapour density
No relevant or available data due to the nature of the product.

▼Decomposition temperature (°C)
No relevant or available data due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)
62

▼Flammability (°C)
No relevant or available data due to the nature of the product.

▼Auto-ignition temperature (°C)
No relevant or available data due to the nature of the product.

▼Lower and upper explosion limit (% v/v)
No relevant or available data due to the nature of the product.

Solubility

▼Solubility in water

No relevant or available data due to the nature of the product.

▼n-octanol/water coefficient (LogKow)

No relevant or available data due to the nature of the product.

▼Solubility in fat (g/L)

No relevant or available data due to the nature of the product.

9.2. Other information

VOC (g/L)

0

Other physical and chemical parameters

No data available.

▼Oxidizing properties

No relevant or available data 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

Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11: Toxicological information

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

Acute toxicity

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>5000 mg/kg ·

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kg ·

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	>5000 mg/kg 4 h ·

Product/substance	carbon dioxide
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	470000 ppm 0,5 h ·

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory sensitisation

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

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

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
None known.

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

Other information
None known.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	>1000 mg/l ·

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Species:	Algae
Duration:	No data available.
Test:	EC50
Result:	>1000 mg/l ·

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Species:	Daphnia
Duration:	24 hours
Test:	EC50
Result:	>1000 mg/l ·

12.2. ▼Persistence and degradability

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Result:	80
Conclusion:	Readily biodegradable
Test:	OECD 301 D

12.3. ▼Bioaccumulative potential

Product/substance	carbon dioxide
LogKow:	0,8300
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

13.1. ▼Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)
Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

▼EWC code

16 05 04* Gases in pressure containers (including halons) containing dangerous substances

▼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	UN1950	AEROSOLS	Transport hazard class: 2 Label: 2.2 Classification code: 5A 	-	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1950	AEROSOLS	Transport hazard class: 2 Label: 2.2 Classification code: 5A 	-	No	Limited quantities: 1 L EmS: F-D S-U See below for additional information.
IATA	UN1950	AEROSOLS	Transport hazard class: 2 Label: 2.2 Classification code: 5A 	-	No	See below for additional information.

* Packing group

** Environmental hazards

▼Additional information

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

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.

Additional information

Not applicable.

Sources

Executive Order no. 247 of 14 March 2014 on interior design, etc. of aerosols, as amended by EO No. 301 of 27 March 2014, EO no. 478 of 25 May 2016 and EO 1336 of 29 November 2017.
Executive Order no. 1369 of 25 November 2015 on the marketing and labeling of volatile organic compounds in certain paints and varnishes as well as products for car repair painting.
Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.
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

EUH066, Repeated exposure may cause skin dryness or cracking.
H280, Contains gas under pressure; may explode if heated.
H304, May be fatal if swallowed and enters airways.

The full text of identified uses as mentioned in section 1

LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
PROC 5 = Mixing or blending in batch PROC esses for formulation of preparations and articles (multistage and/or significant contact)
PC 24 = Lubricants, Greases and Release Products
ERC 8a = Wide dispersive indoor use of processing aids in open systems

▼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
GWP = Global warming potential

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

Not applicable.

The safety data sheet is validated by

Lisbet Tetsche

▼Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a 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: DK-en