SAFETY DATA SHEET

Zink/alu Spray CA-226

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

1.1. Product identifier

▼Trade name

Zink/alu Spray CA-226

Unique formula identifier (UFI)

A8QY-E853-7098-QYMN

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)
LCS "C"	Consumer uses: Private households (= general public = consumers)
Product category	**Description**
PC 24	Lubricants, Greases and Release Products
Process category	**Description**
PROC 11	Non industrial spraying
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

15/10/2024

SDS Version

2.0

Date of previous version

10/11/2022 (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

Aerosol 1; H222, H229, Extremely flammable aerosol. Pressurised container: May burst if heated.

Eye Irrit. 2; H319, Causes serious eye irritation.
STOT SE 3; H336, May cause drowsiness or dizziness.
Aquatic Acute 1; H400, Very toxic to aquatic life.
Aquatic Chronic 2; H411, Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)

Signal word

Danger

Hazard statement(s)

Extremely flammable aerosol. Pressurised container: May burst if heated. (H222, H229)
Causes serious eye irritation. (H319)
May cause drowsiness or dizziness. (H336)
Very toxic to aquatic life with long lasting effects. (H410)

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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)
Do not spray on an open flame or other ignition source. (P211)
Do not pierce or burn, even after use. (P251)
Wash hands thoroughly after handling. (P264)
Wear eye protection/protective gloves/protective clothing. (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

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

▼Disposal

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

Hazardous substances

acetone;propan-2-one;propanone
ethylacetat

Additional labelling

UFI: A8QY-E853-7098-QYMN

VOC

VOC content: 655 g/L
MAXIMUM VOC CONTENT (Phase II, category B/e: 840 g/L)

2.3. Other hazards

▼Additional warnings

In the event of leaks, high concentrations of gases can quickly form. They can be toxic, asphyxiating, or explosive.
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
Butane	CAS No.: 106-97-8 EC No.: 203-448-7	25-40%	Flam. Gas 1A, H220	

	REACH: Index No.: 601-004-00-0			
acetone;propan-2-one;propanone	CAS No.: 67-64-1 EC No.: 200-662-2 REACH: 01-2119471330-49-XXXX Index No.: 606-001-00-8	15-25%	EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1]
Propane	CAS No.: 74-98-6 EC No.: 200-827-9 REACH: Index No.: 601-003-00-5	15-25%	Flam. Gas 1A, H220	
ethylacetat	CAS No.: 141-78-6 EC No.: 205-500-4 REACH: Index No.: 607-022-00-5	15-25%	EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1]
m-xylene;o-xylene;p-xylene;xylene	CAS No.: 1330-20-7 EC No.: 215-535-7 REACH: 01-2119488216-32-XXXX Index No.: 601-022-00-9	3-5%	Flam. Liq. 3, H226 Acute Tox. 4, H312 Skin Irrit. 2, H315 Acute Tox. 4, H332	[1]
Solvent naphtha (petroleum), light arom.;Low boiling point naphtha - unspecified;[A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F).]	CAS No.: 64742-95-6 EC No.: 265-199-0 REACH: Index No.: 649-356-00-4	3-5%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	[19]
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	CAS No.: 64742-48-9 EC No.: 918-481-9 REACH: Index No.:	3-5%	EUH066 Asp. Tox. 1, H304	[19]
aluminium powder (pyrophoric)	CAS No.: 7429-90-5 EC No.: 231-072-3 REACH: Index No.: 013-001-00-6	3-5%	Flam. Sol. 1, H228 Water-react. 2, H261	
zinc powder - zinc dust (pyrophoric)	CAS No.: 7440-66-6 EC No.: 231-175-3 REACH: Index No.: 030-001-01-9	3-5%	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=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.
[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

Rinse with water until pain stops then continue to rinse for 30 minutes.

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.
Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and 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

Extremely flammable aerosol. Pressurised container. In a fire or if heated, a pressure increase will occur and the container may burst.
In use may form flammable/explosive vapour-air 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)
Some metal oxides

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

Accidental releases always pose a serious risk of fire or explosion.
Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.
Ensure adequate ventilation, especially in confined areas.
Avoid inhalation of vapours from spilled material.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

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

Avoid static electricity.
Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Avoid contact during pregnancy and while nursing.
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

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.
Pressurized gas packs (spray cans, aerosol cans) must be stored behind a wire mesh, which allows gases to escape and holds back packs flying around.

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

Butane
Long term exposure limit (8 hours) (mg/m^3): 1200
Long term exposure limit (8 hours) (ppm): 500
Short term exposure limit (15 minutes) (mg/m^3): 2400
Short term exposure limit (15 minutes) (ppm): 1000

acetone;propan-2-one;propanone
Long term exposure limit (8 hours) (mg/m^3): 600
Long term exposure limit (8 hours) (ppm): 250
Short term exposure limit (15 minutes) (mg/m^3): 1200
Short term exposure limit (15 minutes) (ppm): 500
Annotations:
E = Substance has an EC limit.

Propane
Long term exposure limit (8 hours) (mg/m^3): 1800

Long term exposure limit (8 hours) (ppm): 1000
Short term exposure limit (15 minutes) (mg/m³): 3600
Short term exposure limit (15 minutes) (ppm): 2000

ethylacetat
Long term exposure limit (8 hours) (mg/m³): 540
Long term exposure limit (8 hours) (ppm): 150
Short term exposure limit (15 minutes) (mg/m³): 1468
Short term exposure limit (15 minutes) (ppm): 400
Annotations:
E = Substance has an EC limit.

m-xylene;o-xylene;p-xylene;xylene
Long term exposure limit (8 hours) (mg/m³): 109
Long term exposure limit (8 hours) (ppm): 25
Short term exposure limit (15 minutes) (mg/m³): 442
Short term exposure limit (15 minutes) (ppm): 100
Annotations:
E = Substance has an EC limit.
H = The substance can be absorbed through the skin.

aluminium powder (pyrophoric)
Long term exposure limit (8 hours) (mg/m³): 5 (pulver og støv, total) / 2 (pulver og støv, respirabel) / 2 (alkyler, som Al) / 1 (opløselige salte, som Al)
Short term exposure limit (15 minutes) (mg/m³): 10 (pulver og støv, total) / 4 (pulver og støv, respirabel) /4 (alkyler, som Al) / 2 (opløselige salte, som Al)

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

▼DNEL

zinc powder - zinc dust (pyrophoric)

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	83 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	83 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	2.5 mg/m³
Long term – Systemic effects - Workers	Inhalation	5 mg/m³
Long term – Systemic effects - General population	Oral	830 µg/kg bw/day

acetone;propan-2-one;propanone

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	62 mg/kg bw/day
Long term – Systemic effects - General population	Dermal	62 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	186mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	186 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	200mg/m3
Long term – Systemic effects - General population	Inhalation	200 mg/m³
Long term – Systemic effects - Workers	Inhalation	1210 mg/m3
Long term – Systemic effects - Workers	Inhalation	1210 mg/m³
Short term – Local effects	Inhalation	2420 mg/m3
Short term – Local effects - Workers	Inhalation	2420 mg/m³
Long term – Systemic effects - General population	Oral	62 mg/kg bw/day
Long term – Systemic effects - General population	Oral	62 mg/kg bw/day

aluminium powder (pyrophoric)

Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Inhalation	3.72 mg/m³

Long term – Systemic effects - Workers	Inhalation	3.72 mg/m³
Long term – Systemic effects - General population	Oral	3.95 mg/kg bw/day

ethylacetat

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	37 mg/kg Bw / day
Long term – Systemic effects - General population	Dermal	37 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	63 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	63 mg/kg bw/day
Long term – Local effects - General population	Inhalation	367 mg/m3
Long term – Local effects - General population	Inhalation	367 mg/m³
Long term – Local effects - Workers	Inhalation	1468 mg/m3
Long term – Local effects - Workers	Inhalation	734 mg/m3
Long term – Local effects - Workers	Inhalation	734 mg/m³
Long term – Systemic effects - General population	Inhalation	367 mg/m3
Long term – Systemic effects - General population	Inhalation	367 mg/m³
Long term – Systemic effects - Workers	Inhalation	734 mg/m3
Long term – Systemic effects - Workers	Inhalation	734 mg/m³
Short term – Local effects - General population	Inhalation	734 mg/m3
Short term – Local effects - General population	Inhalation	734 mg/m³
Short term – Local effects - Workers	Inhalation	1468 mg/m³
Short term – Systemic effects - General population	Inhalation	734 mg/m3
Short term – Systemic effects - General population	Inhalation	734 mg/m³
Short term – Systemic effects - Workers	Inhalation	1468 mg/m3
Short term – Systemic effects - Workers	Inhalation	1468 mg/m³
Long term – Systemic effects - General population	Oral	4,5 mg/kg Bw/day
Long term – Systemic effects - General population	Oral	4.5 mg/kg bw/day

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	46 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	77 mg/kg bw/day
Long term – Local effects - General population	Inhalation	178.57 mg/m³
Long term – Local effects - Workers	Inhalation	837.5 mg/m³
Long term – Systemic effects - General population	Inhalation	410 µg/m³
Long term – Systemic effects - General population	Inhalation	185 mg/m³
Long term – Systemic effects - Workers	Inhalation	1.9 mg/m³
Long term – Systemic effects - Workers	Inhalation	871 mg/m³
Short term – Local effects - General population	Inhalation	640 mg/m³
Short term – Local effects - Workers	Inhalation	1066.67 mg/m³
Short term – Systemic effects - General population	Inhalation	1152 mg/m³
Short term – Systemic effects - Workers	Inhalation	1286.4 mg/m³
Long term – Systemic effects - General population	Oral	46 mg/kg bw/day

m-xylene;o-xylene;p-xylene;xylene

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	108 mg/kg bw/day
Long term – Systemic effects - General population	Dermal	125 mg/kg bw/day

Long term – Systemic effects - Workers	Dermal	180 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	212 mg/kg bw/day
Long term – Local effects - General population	Inhalation	65.3 mg/m³
Long term – Local effects - Workers	Inhalation	221 mg/m³
Long term – Systemic effects - General population	Inhalation	14,8 mg/m3
Long term – Systemic effects - General population	Inhalation	65.3 mg/m³
Long term – Systemic effects - Workers	Inhalation	77 mg/m3
Long term – Systemic effects - Workers	Inhalation	221 mg/m³
Short term – Local effects - General population	Inhalation	174 mg/m3
Short term – Local effects - General population	Inhalation	260 mg/m³
Short term – Local effects - Workers	Inhalation	289 mg/m3
Short term – Local effects - Workers	Inhalation	442 mg/m³
Short term – Systemic effects - General population	Inhalation	260 mg/m³
Short term – Systemic effects - Workers	Inhalation	442 mg/m³
Long term – Systemic effects - General population	Oral	5 mg/kg bw/day

Solvent naphtha (petroleum), light arom.;Low boiling point naphtha - unspecified;[A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F).]

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	178.57 mg/m³
Long term – Local effects - Workers	Inhalation	837.5 mg/m³
Long term – Systemic effects - General population	Inhalation	410 µg/m³
Long term – Systemic effects - Workers	Inhalation	1.9 mg/m³
Short term – Local effects - General population	Inhalation	640 mg/m³
Short term – Local effects - Workers	Inhalation	1066.67 mg/m³
Short term – Systemic effects - General population	Inhalation	1152 mg/m³
Short term – Systemic effects - Workers	Inhalation	1286.4 mg/m³

▼PNEC

zinc powder - zinc dust (pyrophoric)

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		14.4 µg/L
Freshwater sediment		146.9 mg/kg
Marine water		7.2 µg/L
Marine water sediment		162.2 mg/kg
Sewage treatment plant		100 µg/L
Soil		83.1 mg/kg

acetone;propan-2-one;propanone

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		10,6 mg/l
Freshwater		10.6 mg/L
Freshwater sediment		30,4mg/kg
Freshwater sediment		30.4 mg/kg
Intermittent release (freshwater)		21 mg/L
Marine water		1,06 mg/l
Marine water		1.06 mg/L

Marine water sediment		3,04 mg/kg
Marine water sediment		3.04 mg/kg
Sewage treatment plant		100 mg/L
Soil		29,5 mg/kg
Soil		29.5 mg/kg

aluminium powder (pyrophoric)

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Sewage treatment plant		20 mg/L

ethylacetat

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		0,24 mg/L
Freshwater		240 µg/L
Freshwater sediment		1.15 mg/kg
Intermittent release		1.65 mg/L
Intermittent release (freshwater)		1.65 mg/L
Marine water		0,024 mg/L
Marine water		24 µg/L
Marine water sediment		115 µg/kg
Predators		200 mg/kg
Sewage treatment plant		650 mg/L
Soil		0.148 mg/kg soil dw
Soil		148 µg/kg

m-xylene;o-xylene;p-xylene;xylene

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		44-327 µg/L
Freshwater sediment		2.52-12.46 mg/kg
Intermittent release (freshwater)		10-327 µg/L
Intermittent release (marine water)		1 µg/L
Marine water		4.4-327 µg/L
Marine water sediment		252-12460 µg/kg
Sewage treatment plant		1.6-6.58 mg/L
Soil		852-2310 µg/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

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

Provide adequate general and local exhaust ventilation.

Individual protection measures, such as personal protective equipment

▼Generally
In the event the work process is within scope of the Danish statutory order on work with code numbered products (Work Inspectorate Order no. 302/1993), then personal protection equipment shall be selected as set out herein. If applicable, please refer to the code number of this product in section 15.
Use only CE marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards
AX		Brown	EN14387

Skin protection

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

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	0.3	> 60	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
Aerosol

Colour
Gray

Odour / Odour threshold
Characteristic

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

Density (g/cm^3)
0.68

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

▼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)
-25

▼Flammability (°C)
The material is ignitable.

▼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)
655

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
Avoid static electricity.
Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

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	acetone;propan-2-one;propanone
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	5800 mg/kg ·

Product/substance	acetone;propan-2-one;propanone
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	15800 mg/kg ·

Product/substance	acetone;propan-2-one;propanone
Species:	Rat
Route of exposure:	Inhalation

Test:	LC50
Result:	76 mg/kg 4 h ·

Product/substance	ethylacetat
Species:	Rabbit
Route of exposure:	Oral
Test:	LD50
Result:	4934mg/kg ·

Product/substance	ethylacetat
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>20000 ml/kg ·

Product/substance	m-xylene;o-xylene;p-xylene;xylene
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	4300 mg/kig ·

Product/substance	m-xylene;o-xylene;p-xylene;xylene
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>1100 mg/kg ·

Product/substance	m-xylene;o-xylene;p-xylene;xylene
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	5000 ppm(4hours) ·

Product/substance	Solvent naphtha (petroleum), light arom.;Low boiling point naphtha - unspecified;[A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F).]
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	5000 mg/kg bw ·

Product/substance	Solvent naphtha (petroleum), light arom.;Low boiling point naphtha - unspecified;[A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F).]
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	2000 mg/kg bw ·

▼Skin corrosion/irritation

Product/substance	m-xylene;o-xylene;p-xylene;xylene
Species:	Rabbit
Duration:	No data available.
Result:	Adverse effect observed (Moderately irritating)

▼Serious eye damage/irritation

Product/substance	m-xylene;o-xylene;p-xylene;xylene
Species:	Rabbit
Duration:	No data available.
Result:	Adverse effect observed (Slightly irritating)

Product/substance	m-xylene;o-xylene;p-xylene;xylene
Species:	Rabbit
Duration:	No data available.

Result: Adverse effect observed (Highly irritating)

Causes serious eye irritation.

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

May cause drowsiness or dizziness.

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. Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and 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 known to have hormone-disrupting properties in relation to health.

Other information

m-xylene;o-xylene;p-xylene;xylene has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. ▼Toxicity

Product/substance	acetone;propan-2-one;propanone
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	>100 mg/l ·

Product/substance	acetone;propan-2-one;propanone
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	>100 mg/l ·

Product/substance	acetone;propan-2-one;propanone
Species:	Algae
Duration:	96 hours
Test:	EC50
Result:	>100 mg/l ·

Product/substance	ethylacetat
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	230 mg/L ·

Product/substance	ethylacetat
Species:	Algae

Duration:	48 hours
Test:	EC50
Result:	5600mg/L ·

Product/substance	m-xylene;o-xylene;p-xylene;xylene
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	13,5 mg/l ·

Product/substance	m-xylene;o-xylene;p-xylene;xylene
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	3,2 mg/l ·

Product/substance	m-xylene;o-xylene;p-xylene;xylene
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	3,2 mg/l ·

Toxic to aquatic life with long lasting effects.

12.2. ▼Persistence and degradability

Product/substance	acetone;propan-2-one;propanone
Result:	90,9
Conclusion:	Readily biodegradable
Test:	OECD 301 B

Product/substance	ethylacetat
Result:	93,9%
Conclusion:	Readily biodegradable
Test:	OECD 301 B

Product/substance	m-xylene;o-xylene;p-xylene;xylene
Result:	87,8%
Conclusion:	Readily biodegradable
Test:	OECD 301 F

Product/substance	Solvent naphtha (petroleum), light arom.;Low boiling point naphtha - unspecified;[A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F).]
Result:	94%
Conclusion:	Readily biodegradable
Test:	OECD 301 F

12.3. ▼Bioaccumulative potential

Product/substance	acetone;propan-2-one;propanone
Conclusion:	No potential for bioaccumulation

Product/substance	ethylacetat
LogKow:	0,7300
Conclusion:	No potential for bioaccumulation

Product/substance	m-xylene;o-xylene;p-xylene;xylene
LogKow:	3,1600
Conclusion:	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

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 covered by the regulations on hazardous waste. (*)
HP 3 - Flammable
HP 4 - Irritant (skin irritation and eye damage)
HP 14 – Ecotoxic
Dispose of contents/container to an approved waste disposal plant.
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: 2.1 Classification code: 5F 	-	Yes	Limited quantities: 1 L Tunnel restriction code: (D) See below for additional information.
IMDG	UN1950	AEROSOLS	Transport hazard class: 2 Label: 2.1 Classification code: 5F 	-	Yes	Limited quantities: 1 L EmS: F-D S-U See below for additional information.
IATA	UN1950	AEROSOLS	Transport hazard class: 2 Label: 2.1 Classification code: 5F 	-	Yes	See below for additional information.

14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other 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

People under the age of 18 shall not be exposed to this product.
Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

P3a - FLAMMABLE AEROSOLS, Qualifying quantity (lower-tier): 150 tonnes (net) / (upper-tier): 500 tonnes (net)
E1 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 100 tonnes / (upper-tier): 200 tonnes

Regulation on drug precursors

acetone;propan-2-one;propanone is included (Category 3)

Regulation on explosives precursors

acetone;propan-2-one;propanone (Annex II)
aluminium powder (pyrophoric) (Annex II)

▼REACH, Annex XVII

Butane is subject to REACH restrictions (entry 40).
acetone;propan-2-one;propanone is subject to REACH restrictions (entry 40).
Propane is subject to REACH restrictions (entry 40).
ethylacetat is subject to REACH restrictions (entry 40).
m-xylene;o-xylene;p-xylene;xylene is subject to REACH restrictions (entry 40).
Solvent naphtha (petroleum), light arom.;Low boiling point naphtha - unspecified;[A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F).] is subject to REACH restrictions (entry 40).
aluminium powder (pyrophoric) is subject to REACH restrictions (entry 40).

Product registration number

4128491

▼Regulation on work involving coded products

Code number (1993): 3-1.

▼Additional information

Not applicable.

▼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.

Pregnant workers and workers who are breastfeeding (AT Guide A.1.8-6, amended 2020).
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. 372 of 25 April 2016 on control of the risk of major accidents with dangerous substances.
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.
Council Regulation (EC) No 273/2004 on drug precursors.
Council Regulation (EC) No 2019/1148 on explosives precursors.
Arbejdstilsynets bekendtgørelse nr. 301 af 13. maj 1993 om fastsættelse af kodenumre med senere ændringer.
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.
H220, Extremely flammable gas.
H225, Highly flammable liquid and vapour.
H226, Flammable liquid and vapour.
H228, Flammable solid.
H261, In contact with water releases flammable gases.
H304, May be fatal if swallowed and enters airways.
H312, Harmful in contact with skin.
H315, Causes skin irritation.
H319, Causes serious eye irritation.
H332, Harmful if inhaled.
H336, May cause drowsiness or dizziness.
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.

The full text of identified uses as mentioned in section 1

LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
LCS "C" = Consumer uses: Private households (= general public = consumers)
PROC 11 = Non industrial spraying
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

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 environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).
The classification of the mixture in regard to physical hazards has been based on experimental data.

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