

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: 4020 Z-Prime

Creation date: 23.11.2023, Revision: 26.03.2025, Version: 3.0

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

1.1 Product identifier

Product name

4020 Z-Prime

UFI:

254C-906J-K00F-1PCG



<https://my.chemius.net/p/EG7ik0/en/pd/en>

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

Relevant identified uses

An agent for protection against corrosion. Coating.

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier

SILCO d.o.o.
Sentrupert 5a
3303 Gomilsko, Slovenia
+386 3 703 3180
msds@silco.si

1.4 Emergency Telephone Number

Emergency

111

Supplier

112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

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

Press. Gas; H280 Contains gas under pressure; may explode if heated.

Skin Irrit. 2; H315 Causes skin irritation.

Eye Irrit. 2; H319 Causes serious eye irritation.

Acute Tox. 4; H332 Harmful if inhaled.

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STOT SE 3; H335 May cause respiratory irritation.

STOT SE 3; H336 May cause drowsiness or dizziness.

STOT RE 2; H373 May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)



Signal word: **DANGER**

H222 + H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P233 Keep container tightly closed.

P251 Do not pierce or burn, even after use.

P273 Avoid release to the environment.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

P501 Dispose of contents/container in accordance with national regulation.

Contains:

acetone

reaction mass of ethylbenzene and xylene

hydrocarbons, C9, aromatics

reaction mass of ethylbenzene and m-xylene and p-xylene

xylene

Aromatic hydrocarbons, C8

2.3 Other hazards

PBT/vPvB

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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Endocrine disrupting properties

The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration ≥ 0.1 w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration ≥ 0.1 w/w %.

Additional information

No information.

Section 3: Composition/information on ingredients

3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits
isobutane	75-28-5 200-857-2 - 01-2119485395-27	20-25	Flam. Gas 1; H220 Press. Gas; H280	/
zinc powder - zinc dust (stabilized)	7440-66-6 231-175-3 - 01-2119467174-37	15-20	Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/
acetone	67-64-1 200-662-2 606-001-00-8 01-2119471330-49	15-20	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	/
reaction mass of ethyl benzene and xylene	- 905-588-0 - 01-2119488216-32	10-15	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 STOT RE 2; H373	STOT RE 2; H373; C $\geq 10\%$

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits
propa ne	74-98-6 200-827-9 - 01-2119485394-21	5-10	Flam. Gas 1; H220 Press. Gas; H280	/
hydro carbo ns, C9, arom atics	64742-95-6 918-668-5 - 01-2119455851-35	5-10	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411 EUH066	/
reacti on mass of ethyl benz ene and m- xylen e and p- xylen e	- 905-562-9 - 01-2119555267-33	5-10	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 STOT RE 2; H373	/
xylen e	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32	5-10	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335 STOT RE 2; H373 Aquatic Chronic 3; H412	/
Arom atic hydro carbo ns, C8	90989-38-1 292-694-9 648-010-00-X 01-2119486136-34	5-10	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Acute Tox. 4; H312 Skin Irrit. 2; H315 Acute Tox. 4; H332	/
ethyl benz ene	100-41-4 202-849-4 601-023-00-4	1-2.5	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Acute Tox. 4; H332 STOT RE 2; H373 (hearing organs)	/

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits
quartz (SiO₂)	14808-60-7 238-878-4 -	0.01- 0.1	STOT RE 1; H372	/

Notes for substances

C Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.

In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

J The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes.

P The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes.

Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

U When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:
Press. Gas (Comp.)
Press. Gas (Liq.)
Press. Gas (Ref. Liq.)
Press. Gas (Diss.)
Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

Section 4: First aid measures

4.1 Description of first aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

Following inhalation

Remove patient to fresh air - move out of dangerous area. In case of unconsciousness bring patient into stable side position and seek medical attention. If breathing is irregular or

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respiratory arrest occurs provide artificial respiration. Keep at rest in a position comfortable for breathing. Seek medical help immediately.

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. Consult a physician.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

Following ingestion

No information.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Coughing, sneezing, nasal discharge, labored breathing. Vapours may cause drowsiness and dizziness. Harmful.

Following skin contact

Itching, redness, pain.

Following eye contact

Redness, tearing, pain.

Following ingestion

No information.

4.3 Indication of any immediate medical attention and special treatment needed

No information.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam.
Fire extinguishing powder.
Carbon dioxide (CO₂).

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO₂).

Nitrogen oxides (NO_x).

Hydrogen chloride (HCl).

5.3 Advice for firefighters

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Protective actions

Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information

Contaminated extinguishing agents must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

No information.

Precautionary measures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking!

Emergency procedures

No information.

For emergency responders

No information.

6.2 Environmental precautions

In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

No information.

For cleaning up

Collect the spray cans and hand them over to an authorized waste disposal contractor.

Other information

No information.

6.4 Reference to other sections

See also sections 8 and 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

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Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Take precautionary measures against static discharges.

Measures to prevent aerosol and dust generation

No information.

Measures to protect the environment

No information.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs.

Packaging materials

No information.

Requirements for storage rooms and vessels

No information.

Storage temperature

No information.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

Name	mg/m ³	ml/m ³	Short-term value mg/m ³	Short-term value ml/m ³	Remark	Biological Tolerance Values
Ethylbenzene (100-41-4)	441	100	552	125	Sk	/

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Name	mg/m ³	ml/m ³	Short-term value mg/m ³	Short-term value ml/m ³	Remark	Biological Tolerance Values
Xylene, o-,m-,p - or mixed isomers (1330-20-7)	220	50	441	100	Sk, BMGV	650 mmol methyl hippuric acid/mol creatinine in urine - Post shift
Silica, respirable crystalline (respirable fraction)	0.1	/	/	/	Carc (where generated as a result of a work process)	/
Acetone (67-64-1)	1210	500	3620	1500	/	/

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	Value
acetone	Worker	inhalation	long term systemic effects	/	1210 mg/m ³
acetone	Worker	inhalation	short term local effects	/	2420 mg/m ³
acetone	Worker	dermal	long term systemic effects	/	186 mg/kg bw/day
acetone	Consumer	inhalation	long term systemic effects	/	200 mg/m ³

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Name	Type	Exposure route	exp. frequency	Remark	Value
acetone	Consumer	dermal	long term systemic effects	/	62 mg/kg bw/day
acetone	Consumer	oral	long term systemic effects	/	62 mg/kg bw/day
reaction mass of ethylbenzene and xylene	Worker	inhalation	long term systemic effects	/	221 mg/m ³
reaction mass of ethylbenzene and xylene	Worker	inhalation	short term systemic effects	/	442 mg/m ³
reaction mass of ethylbenzene and xylene	Worker	inhalation	long term local effects	/	221 mg/m ³
reaction mass of ethylbenzene and xylene	Worker	inhalation	short term local effects	/	442 mg/m ³
reaction mass of ethylbenzene and xylene	Worker	dermal	long term systemic effects	/	212 mg/kg bw/day
reaction mass of ethylbenzene and xylene	Consumer	inhalation	long term systemic effects	/	65.3 mg/m ³
reaction mass of ethylbenzene and xylene	Consumer	inhalation	short term systemic effects	/	260 mg/m ³
reaction mass of ethylbenzene and xylene	Consumer	inhalation	long term local effects	/	65.3 mg/m ³
reaction mass of ethylbenzene and xylene	Consumer	inhalation	short term local effects	/	260 mg/m ³
reaction mass of ethylbenzene and xylene	Consumer	dermal	long term systemic effects	/	125 mg/kg bw/day
reaction mass of ethylbenzene and xylene	Consumer	oral	long term systemic effects	/	12.5 mg/kg bw/day
reaction mass of ethylbenzene and m-xylene and p-xylene	Worker	inhalation	long term systemic effects	/	221 mg/m ³

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Name	Type	Exposure route	exp. frequency	Remark	Value
reaction mass of ethylbenzene and m-xylene and p-xylene	Worker	inhalation	short term systemic effects	/	442 mg/m ³
reaction mass of ethylbenzene and m-xylene and p-xylene	Worker	inhalation	long term local effects	/	221 mg/m ³
reaction mass of ethylbenzene and m-xylene and p-xylene	Worker	inhalation	short term local effects	/	442 mg/m ³
reaction mass of ethylbenzene and m-xylene and p-xylene	Worker	dermal	long term systemic effects	/	212 mg/kg bw/day
reaction mass of ethylbenzene and m-xylene and p-xylene	Consumer	inhalation	long term systemic effects	/	65.3 mg/m ³
reaction mass of ethylbenzene and m-xylene and p-xylene	Consumer	inhalation	short term systemic effects	/	260 mg/m ³
reaction mass of ethylbenzene and m-xylene and p-xylene	Consumer	inhalation	long term local effects	/	65.3 mg/m ³
reaction mass of ethylbenzene and m-xylene and p-xylene	Consumer	inhalation	short term local effects	/	260 mg/m ³
reaction mass of ethylbenzene and m-xylene and p-xylene	Consumer	dermal	long term systemic effects	/	125 mg/kg bw/day
reaction mass of ethylbenzene and m-xylene and p-xylene	Consumer	oral	long term systemic effects	/	12.5 mg/kg bw/day
xylene	Worker	inhalation	long term systemic effects	/	221 mg/m ³

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Name	Type	Exposure route	exp. frequency	Remark	Value
xylene	Worker	inhalation	short term systemic effects	/	442 mg/m ³
xylene	Worker	inhalation	long term local effects	/	221 mg/m ³
xylene	Worker	inhalation	short term local effects	/	442 mg/m ³
xylene	Worker	dermal	long term systemic effects	/	212 mg/kg bw/day
xylene	Consumer	inhalation	long term systemic effects	/	65.3 mg/m ³
xylene	Consumer	inhalation	short term systemic effects	/	260 mg/m ³
xylene	Consumer	inhalation	long term local effects	/	65.3 mg/m ³
xylene	Consumer	inhalation	short term local effects	/	260 mg/m ³
xylene	Consumer	dermal	long term systemic effects	/	125 mg/kg bw/day
xylene	Consumer	oral	long term systemic effects	/	12.5 mg/kg bw/day
Aromatic hydrocarbons, C8	Worker	inhalation	long term systemic effects	/	221 mg/m ³
Aromatic hydrocarbons, C8	Worker	inhalation	short term systemic effects	/	442 mg/m ³
Aromatic hydrocarbons, C8	Worker	inhalation	long term local effects	/	221 mg/m ³
Aromatic hydrocarbons, C8	Worker	inhalation	short term local effects	/	442 mg/m ³
Aromatic hydrocarbons, C8	Worker	dermal	long term systemic effects	/	212 mg/kg bw/day

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Name	Type	Exposure route	exp. frequency	Remark	Value
Aromatic hydrocarbons, C8	Consumer	inhalation	long term systemic effects	/	65.3 mg/m ³
Aromatic hydrocarbons, C8	Consumer	inhalation	short term systemic effects	/	260 mg/m ³
Aromatic hydrocarbons, C8	Consumer	inhalation	long term local effects	/	65.3 mg/m ³
Aromatic hydrocarbons, C8	Consumer	inhalation	short term local effects	/	260 mg/m ³
Aromatic hydrocarbons, C8	Consumer	dermal	long term systemic effects	/	125 mg/kg bw/day
Aromatic hydrocarbons, C8	Consumer	oral	long term systemic effects	/	12.5 mg/kg bw/day
ethylbenzene	Worker	inhalation	long term systemic effects	/	77 mg/m ³
ethylbenzene	Worker	inhalation	short term local effects	/	293 mg/m ³
ethylbenzene	Worker	dermal	long term systemic effects	/	180 mg/kg bw/day
ethylbenzene	Consumer	inhalation	long term systemic effects	/	15 mg/m ³
ethylbenzene	Consumer	oral	long term systemic effects	/	1.6 mg/kg bw/day

PNEC values

For product

No information.

For components

Name	Exposure route	Remark	Value
zinc powder - zinc dust (stabilized)	fresh water	/	14.4 µg/l
zinc powder - zinc dust (stabilized)	marine water	/	7.2 µg/l

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Name	Exposure route	Remark	Value
zinc powder - zinc dust (stabilized)	water treatment plant	/	100 µg/L
zinc powder - zinc dust (stabilized)	fresh water sediment	dry weight	146.9 mg/kg
zinc powder - zinc dust (stabilized)	marine water sediment	dry weight	162.2 mg/kg
zinc powder - zinc dust (stabilized)	soil	dry weight	83.1 mg/kg
acetone	fresh water	/	10.6 mg/L
acetone	water, intermittent release	/	21 mg/L
acetone	marine water	/	1.06 mg/L
acetone	water treatment plant	/	100 mg/L
acetone	fresh water sediment	dry weight	30.4 mg/kg
acetone	marine water sediment	dry weight	3.04 mg/kg
acetone	soil	dry weight	29.5 mg/kg
reaction mass of ethylbenzene and xylene	fresh water	/	0.327 mg/L
reaction mass of ethylbenzene and xylene	water, intermittent release	/	0.327 mg/L
reaction mass of ethylbenzene and xylene	marine water	/	0.327 mg/L
reaction mass of ethylbenzene and xylene	water treatment plant	/	6.58 mg/L
reaction mass of ethylbenzene and xylene	fresh water sediment	dry weight	12.46 mg/kg
reaction mass of ethylbenzene and xylene	marine water sediment	dry weight	12.46 mg/kg
reaction mass of ethylbenzene and xylene	soil	dry weight	2.31 mg/kg
reaction mass of ethylbenzene and m-xylene and p-xylene	fresh water	/	0.327 mg/L
reaction mass of ethylbenzene and m-xylene and p-xylene	water, intermittent release	/	0.327 mg/L
reaction mass of ethylbenzene and m-xylene and p-xylene	marine water	/	0.327 mg/L

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Name	Exposure route	Remark	Value
reaction mass of ethylbenzene and m-xylene and p-xylene	water treatment plant	/	6.58 mg/L
reaction mass of ethylbenzene and m-xylene and p-xylene	fresh water sediment	dry weight	12.46 mg/kg
reaction mass of ethylbenzene and m-xylene and p-xylene	marine water sediment	dry weight	12.46 mg/kg
reaction mass of ethylbenzene and m-xylene and p-xylene	soil	dry weight	2.31 mg/kg
xylene	fresh water	/	0.327 mg/L
xylene	water, intermittent release	/	0.327 mg/L
xylene	marine water	/	0.327 mg/L
xylene	water treatment plant	/	6.58 mg/L
xylene	fresh water sediment	dry weight	12.46 mg/kg
xylene	marine water sediment	dry weight	12.46 mg/kg
xylene	soil	dry weight	2.31 mg/kg
Aromatic hydrocarbons, C8	fresh water	/	0.327 mg/L
Aromatic hydrocarbons, C8	water, intermittent release	/	0.327 mg/L
Aromatic hydrocarbons, C8	marine water	/	0.327 mg/L
Aromatic hydrocarbons, C8	water treatment plant	/	6.58 mg/L
Aromatic hydrocarbons, C8	fresh water sediment	dry weight	12.46 mg/kg
Aromatic hydrocarbons, C8	marine water sediment	dry weight	12.46 mg/kg
Aromatic hydrocarbons, C8	soil	dry weight	2.31 mg/kg
ethylbenzene	fresh water	/	0.1 mg/L
ethylbenzene	water, intermittent release	/	0.1 mg/L
ethylbenzene	marine water	/	0.01 mg/L
ethylbenzene	water treatment plant	/	9.6 mg/L
ethylbenzene	fresh water sediment	dry weight	13.7 mg/kg
ethylbenzene	marine water sediment	dry weight	1.37 mg/kg

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Name	Exposure route	Remark	Value
ethylbenzene	soil	dry weight	2.68 mg/kg
ethylbenzene	secondary poisoning	food	0.02 g/kg

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

Personal protective equipment

Eye and face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022).

Hand protection

Protective gloves (EN ISO 374-1:2016). In case of prolonged exposure, wear protective gloves (BS EN ISO 374).

Appropriate materials

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345:2022).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

No information.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Important health, safety and environmental information

Physical state

gas

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Creation date: **23.11.2023**, Revision: **26.03.2025**, Version: **3.0**

Shape	aerosol
Colour	silver
Odour	characteristic
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	1 % v/v 14.3 % v/v
Flash point	0 °C
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	Substance/mixture is non-soluble (in water). Does not apply
Viscosity	No information.
Solubility	No information.
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	3 hPa at 20 °C
Density	1.744 kg/L
Relative vapour/gas density	No information.
Particle characteristics	No information.

9.2 Other information

Information with regard to physical hazard classes

No information.

Other safety characteristics

Weight organic solvents	629 g/l (VOC) 66 % (VOC)
Solids content	0 % 0 vol %

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information.

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10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

No information.

10.4 Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

10.5 Incompatible materials

No information.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

Section 11: Toxicological information

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

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
isobutane	inhalation	LC ₅₀	rat	4 h	658 mg/l	/	/
reaction mass of ethylbenzene and xylene	oral	LD ₅₀	rat	/	> 3523 mg/kg	/	/
reaction mass of ethylbenzene and xylene	dermal	LD ₅₀	rabbit	/	4200 mg/kg	/	/
reaction mass of ethylbenzene and xylene	inhalation (vapours)	LC ₅₀	rat	4 h	29 mg/l	/	/
propane	inhalation	LC ₅₀	rat	4 h	20 mg/l	/	/

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
hydrocarbons, C9, aromatics	oral	LD ₅₀	rat	/	3592 mg/kg	/	/
hydrocarbons, C9, aromatics	dermal	LD ₅₀	rabbit	/	3160 mg/kg	/	/
reaction mass of ethylbenzene and m-xylene and p-xylene	oral	LD ₅₀	mouse	/	5627 mg/kg	/	/
reaction mass of ethylbenzene and m-xylene and p-xylene	dermal	LD ₅₀	rabbit	/	> 5000 mg/kg	/	/
reaction mass of ethylbenzene and m-xylene and p-xylene	inhalation	LC ₅₀	rat	/	6700 ppm	/	/
xylene	oral	LD ₅₀	rat	/	> 3523 mg/kg	/	/
xylene	dermal	LD ₅₀	rabbit	/	4200 mg/kg	/	/
xylene	inhalation (vapours)	LC ₅₀	rat	4 h	29 mg/l	/	/
Aromatic hydrocarbons, C8	oral	LD ₅₀	rat	/	> 3523 mg/kg	/	/
Aromatic hydrocarbons, C8	dermal	LD ₅₀	rabbit	/	4200 mg/kg	/	/
Aromatic hydrocarbons, C8	inhalation (vapours)	LC ₅₀	rat	4 h	29 mg/l	/	/
ethylbenzene	dermal	LD ₅₀	rabbit	/	17800 mg/kg	/	/
ethylbenzene	oral	LD ₅₀	rat	/	3500 mg/kg	/	/
ethylbenzene	inhalation	LC ₅₀	/	4 h	11 mg/l	/	ATE

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
quartz (SiO2)	oral	LD ₅₀	rat	/	500 mg/kg	/	/

(b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
quartz (SiO2)	/	/	Not expected to cause irritation.	/	/

(c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	result	Method	Remark
quartz (SiO2)	/	/	/	Irritating to eyes.	/	/

(d) Respiratory or skin sensitisation

No information.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

For components

Name	Exposure route	Type	Species	Time	Value	result	Method	Remark
quartz (SiO2)	/	/	/	/	/	IARC 1: Carcinogenic to humans.	/	/
quartz (SiO2)	/	/	/	/	/	TLV classification: A2.	/	/

(g) Reproductive toxicity

For components

Name	Reproductive toxicity type	Type	Species	Time	Value	result	Method	Remark
quartz (SiO2)	Effects on fertility	-	rat	/	/	Negative.	OECD 416	2-generation study, oral
quartz (SiO2)	Developmental toxicity	-	hamster	/	/	Negative.	/	oral; embryo-fetal development; tested on a similar product.

Summary of evaluation of the CMR properties

No information.

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(h) STOT-single exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	Value	result	Method	Rem
quartz (SiO ₂)	inhalation	/	/	/	/	/	/	Small particles of crystalline silica may cause silicosis, a non-cancerous lung disease.	/	/
quartz (SiO ₂)	inhalation	/	/	/	/	/	/	Harmful.	/	/

(i) STOT-repeated exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	Value	result	Method	Rem
acetone	dermal	-	/	/	/	/	/	Prolonged exposure causes skin irritation.	/	/
quartz (SiO ₂)	inhalation	-	/	/	/	/	/	STOT RE cat.1	/	liter

(j) Aspiration hazard

No information.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Other information

No information.

Section 12: Ecological information

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12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
zinc powder - zinc dust (stabilized)	LC ₅₀	0.31 mg/L	96 h	fish	/	/	/
zinc powder - zinc dust (stabilized)	EC ₅₀	1.22 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
reaction mass of ethylbenzene and xylene	LC ₅₀	13.4 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
reaction mass of ethylbenzene and xylene	LC ₅₀	13.1 - 16.5 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
reaction mass of ethylbenzene and xylene	LC ₅₀	2661 - 4093 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
reaction mass of ethylbenzene and xylene	LC ₅₀	19 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
reaction mass of ethylbenzene and xylene	LC ₅₀	30.26 - 40.75 mg/L	96 h	fish	<i>Poecilia reticulata</i>	/	/
reaction mass of ethylbenzene and xylene	LC ₅₀	23.53 - 29.97 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
reaction mass of ethylbenzene and xylene	LC ₅₀	7711 - 9591 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
reaction mass of ethylbenzene and xylene	LC ₅₀	780 mg/L	96 h	fish	<i>Cyprinus carpio</i>	/	/
reaction mass of ethylbenzene and xylene	LC ₅₀	> 780 mg/L	96 h	fish	<i>Cyprinus carpio</i>	/	/
reaction mass of ethylbenzene and xylene	LC ₅₀	13.5 - 17.3 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
reaction mass of ethylbenzene and xylene	EC ₅₀	3.82 mg/L	48 h	daphnia	/	/	/
hydrocarbons, C9, aromatics	EC ₅₀	3.2 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
hydrocarbons, C9, aromatics	EC ₅₀	9.2 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
hydrocarbons, C9, aromatics	EC ₅₀	2.75 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	/
reaction mass of ethylbenzene and m-xylene and p-xylene	LC ₅₀	> 1.3 mg/L	/	fish	/	/	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
xylene	LC ₅₀	13.4 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
xylene	LC ₅₀	13.1 - 16.5 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
xylene	LC ₅₀	2661 - 4093 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
xylene	LC ₅₀	19 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
xylene	LC ₅₀	30.26 - 40.75 mg/L	96 h	fish	<i>Poecilia reticulata</i>	/	/
xylene	LC ₅₀	23.53 - 29.97 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
xylene	LC ₅₀	7711 - 9591 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
xylene	LC ₅₀	780 mg/L	96 h	fish	<i>Cyprinus carpio</i>	/	/
xylene	LC ₅₀	> 780 mg/L	96 h	fish	<i>Cyprinus carpio</i>	/	/
xylene	LC ₅₀	13.5 - 17.3 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
xylene	EC ₅₀	3.82 mg/L	48 h	daphnia	/	/	/
Aromatic hydrocarbons, C8	LC ₅₀	13.4 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
Aromatic hydrocarbons, C8	LC ₅₀	13.1 - 16.5 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
Aromatic hydrocarbons, C8	LC ₅₀	2661 - 4093 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
Aromatic hydrocarbons, C8	LC ₅₀	19 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
Aromatic hydrocarbons, C8	LC ₅₀	30.26 - 40.75 mg/L	96 h	fish	<i>Poecilia reticulata</i>	/	/
Aromatic hydrocarbons, C8	LC ₅₀	23.53 - 29.97 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
Aromatic hydrocarbons, C8	LC ₅₀	7711 - 9591 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
Aromatic hydrocarbons, C8	LC ₅₀	780 mg/L	96 h	fish	<i>Cyprinus carpio</i>	/	/
Aromatic hydrocarbons, C8	LC ₅₀	> 780 mg/L	96 h	fish	<i>Cyprinus carpio</i>	/	/
Aromatic hydrocarbons, C8	LC ₅₀	13.5 - 17.3 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
Aromatic hydrocarbons, C8	EC ₅₀	3.82 mg/L	48 h	daphnia	/	/	/
ethylbenzene	EC ₅₀	2.1 mg/L	48 h	<i>Daphnia</i>	/	/	/

Chronic (long-term) toxicity

For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
zinc powder - zinc dust (stabilized)	NOEC	0.44 mg/l	/	fish	<i>Oncorhynchus mykiss</i>	/	/
zinc powder - zinc dust (stabilized)	NOEC	0.031 mg/l	/	crustacea	<i>Daphnia magna</i>	/	/

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

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For components

Name	Type	Rate	Time	Evaluation	Method	Remark
acetone	-	/	/	readily biodegradable	/	/
reaction mass of ethylbenzene and m-xylene and p-xylene	BOD	57 - 80 g O ₂ /g	/	/	/	/

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

For components

Name	Value	Temperature °C	pH	Concentration	Method
acetone	-0.23	/	/	/	/
reaction mass of ethylbenzene and m-xylene and p-xylene	3.12 - 3.2	/	/	/	/

Bioconcentration factor (BCF)

For components

Name	Species	Organism	Value	Duration	Evaluation	Method	Remark
acetone	BCF	/	3	/	/	/	/
reaction mass of ethylbenzene and m-xylene and p-xylene	BCF	/	25.9	/	/	/	/

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

For components

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Name	Type	Criterion	Value	Evaluation	Method	Remark
reaction mass of ethylbenzene and m-xylene and p-xylene	Soil	log KOC	2.73	/	/	/

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

12.7 Other adverse effects

No information.

12.8 Additional information

For components

reaction mass of ethylbenzene and m-xylene and p-xylene

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). Bioaccumulation is not expected.

quartz (SiO₂)

This substance is not in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

Section 13: Disposal considerations

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

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Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

Section 14: Transport information

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2 UN proper shipping name			
AEROSOLS	AEROSOLS (zinc powder - zinc dust (stabilized))	AEROSOLS	AEROSOLS
14.3 Transport hazard class(es)			
2	2	2	2
			
			
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards			
YES	Marine pollutant	YES	YES
14.6 Special precautions for user			

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ADR/RID	IMDG	IATA	ADN
Limited quantities 1 L Special provisions 190, 327, 344, 625 Packing Instructions P207, LP200 Special packing provisions PP87, RR6, L2 Transport category 2 Tunnel restriction code (D) Classification code 5F	Limited quantities 1 L EmS F-D, S-U Flash point 0 °C	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y203 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 30 kg G Packing Instructions (Pkg Inst) 203 Maximum Net Quantity/Package (Max Net Qty/Pkg) 25 kg Special provisions A145, A167, A802	Limited quantities 1 L
14.7 Maritime transport in bulk according to IMO instruments	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

Section 15: Regulatory information

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)(including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

EU limit values and category: B(e) 840 g/l. VOC Content: 629 g/l

Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

Special instructions

No information.

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15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16: Other information

Indication of changes

2.2 Label elements 2.3 Other hazards 3.2 Mixtures 7.2 Conditions for safe storage, including any incompatibilities 8.1 Control parameters 9.1 Information on basic physical and chemical properties 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 12.1 Toxicity 12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil 12.8 Additional information 14. Transport information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW - see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes

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IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
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.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.

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H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.