

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: 9009 Rim Restore

Creation date: 29.08.2023, Revision: 29.08.2023, Version: 3.0

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

1.1 Product identifier

Product name

9009 Rim Restore

UFI:

3E4H-QM6R-8C89-HW58



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

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

Relevant identified uses

No information.

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Manufacturer

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

1.4 Emergency Telephone Number

Emergency

112

Manufacturer

112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

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

Flam. Liq. 2; H225 Highly flammable liquid and vapour.

Skin Irrit. 2; H315 Causes skin irritation.

Eye Dam. 1; H318 Causes serious eye damage.

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.

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silco[®]

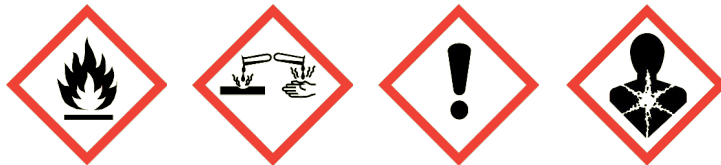
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Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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



Signal word: DANGER

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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

H412 Harmful to aquatic life with long lasting effects.

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

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

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

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

P310 Immediately call a POISON CENTER or doctor/physician.

P403 + P235 Store in a well-ventilated place. Keep cool.

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

Contains:

xylene

n-butyl acetate

2-methylpropan-1-ol

butan-1-ol

2.3 Other hazards

PBT/vPvB

No information.

Endocrine disrupting properties

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

Additional information

No information.

Section 3: Composition/information on ingredients

3.1 Substances

For mixtures see 3.2.

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3.2 Mixtures

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits
xylene	1330-20-7 215-535-7 601-022-00-9	35-40	Flam. Liq. 3; H226 Acute Tox. 4; H312 Skin Irrit. 2; H315 Acute Tox. 4; H332	/
n-butyl acetate	123-86-4 204-658-1 607-025-00-1	10-15	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066	/
butanone	78-93-3 201-159-0 606-002-00-3	2.5-5	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	/
ethyl acetate	141-78-6 205-500-4 607-022-00-5	2.5-5	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	/
reaction mass of ethyl benzene and m-xylene and p-xylene	- 905-562-9 -	2.5-5	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	/
aluminium powder (stabilised)	7429-90-5 231-072-3 013-002-00-1	2.5-5	Flam. Sol. 1; H228 Water-react. 2; H261	/
2-Butoxyethanol	111-76-2 203-905-0 603-014-00-0	2.5-5	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 3; H331	oral: ATE = 1200 mg/kg bw inhalation: ATE = 3 mg/l (vapours)

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Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits
Naphtha (petroleum), hydro treated heavy	64742-48-9 918-481-9 -	1-2.5	Asp. Tox. 1; H304 EUH066	/
2-methylpropan-1-ol	78-83-1 201-148-0 603-108-00-1	1-2.5	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 STOT SE 3; H336	/
butan-1-ol	71-36-3 200-751-6 603-004-00-6	1-2.5	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 STOT SE 3; H336	/
hydrocarbons, C9, aromatic	128601-23-0 918-668-5 -	0.1-1	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411	/
isopropanol	67-63-0 200-661-7 603-117-00-0	0.1-1	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	/
ethanol	64-17-5 200-578-6 603-002-00-5	<0.01	Flam. Liq. 2; H225	/
Ethylbenzene	100-41-4 202-849-4 601-023-00-4 01-2119489370-35	<0.01	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Acute Tox. 4; H332 STOT RE 2; H373 Aquatic Chronic 3; H412	/
2,6-dimethylpenta-4-one	108-83-8 203-620-1 606-005-00-X	<0.01	Flam. Liq. 3; H226 STOT SE 3; H335	STOT SE 3; H335; C ≥ 10%

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Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits
maleic anhydride	108-31-6 203-571-6 607-096-00-9	<0.01	Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Resp. Sens. 1; H334 STOT RE 1; H372 EUH071	Skin Sens. 1A; H317; C ≥ 0.001%

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.

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.

T This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.

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. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. Wash contaminated clothing with water before removing or use gloves.

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. Immediately obtain professional medical help!

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. After 5 minutes of rinsing, remove contact lenses, if present, and continue rinsing. Consult a physician immediately!

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Immediately consult a doctor. Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Can cause irritation of respiratory system. Symptoms include: headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Coughing, sneezing, nasal discharge, labored breathing. Vapours may cause drowsiness and dizziness. Harmful.

Following skin contact

Skin burns: Signs/symptoms may include localised redness, swelling, itching, dryness, blistering.

Following eye contact

Redness, pain, burning sensation, tearing, can cause permanent damage to the eyes.

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. If ingested, may cause burns of the mouth and throat, as well as perforation of the esophagus and stomach. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

No information.

Unsuitable extinguishing media

Water.

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.

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5.3 Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training. Prolonged heating can cause an explosion. Vapours can form explosive mixtures with air. 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 firefighting water and fire residues must be disposed of in accordance with the local regulations.

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 action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Use only explosion-proof instruments and equipment. Use spark-proof tools. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises.

Other information

No information.

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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

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Take precautionary measures against static discharges. Vapours are heavier than air and spread along the floor. They form explosive mixtures with air.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

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. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep away from oxidising substances. Keep away from sources of ignition - no smoking.

Packaging materials

Store only in original container.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

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.

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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
isoprop anol	/	/	/	/	Short term (< 30 minut)	/
Alumini um alkyl compo unds	2	/	/	/	/	/
Alumini um salts, soluble	2	/	/	/	/	/
Butan-2-one (methyl ethyl ketone) (78-93-3)	600	200	899	300	Sk, BMGV	70 µmol butan-2-one/L in urine - Post shift 70 µmol butan-2-one/L in urine - Post shift
2-Butoxy ethanol (111-76-2)	123	25	246	50	Sk, BMGV	240 mmol butoxyacetic acid/mol creatinine in urine - Post shift 240 mmol butoxyacetic acid/mol creatinine in urine - Post shift
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 650 mmol methyl hippuric acid/mol creatinine in urine - Post shift 650 mmol methyl hippuric acid/mol creatinine in urine - Post shift
2-Methylpropan-1-ol (78-83-1)	154	50	231	75	/	/
2,6-Dimethylheptan-4-one (108-83-8)	148	25	/	/	/	/
Aluminium metal inhalable dust (7429-90-5)	10	/	/	/	/	/

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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
Aluminium metal respirable dust (7429-90-5)	4	/	/	/	/	/
Butan-1-ol (71-36-3)	/	/	154	50	Sk	/
Butyl acetate (123-86-4)	724	150	966	200	/	/
Ethanol (64-17-5)	1920	1000	/	/	/	/
Ethyl acetate (141-78-6)	734	200	1468	400	/	/
Maleic anhydride (108-31-6)	1	/	3	/	Sen	/
Propan-2-ol (67-63-0)	999	400	1250	500	/	/

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

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Name	Type	Exposure route	exp. frequency	Remark	value
xylene	Worker	inhalation	long term systemic effects	/	221 mg/m ³
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
n-butyl acetate	Worker	inhalation	long term systemic effects	/	300 mg/m ³
n-butyl acetate	Worker	inhalation	short term systemic effects	/	600 mg/m ³
n-butyl acetate	Worker	inhalation	long term local effects	/	300 mg/m ³
n-butyl acetate	Worker	inhalation	short term local effects	/	600 mg/m ³
n-butyl acetate	Worker	dermal	long term systemic effects	/	11 mg/kg bw/day

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Name	Type	Exposure route	exp. frequency	Remark	value
n-butyl acetate	Worker	dermal	short term systemic effects	/	11 mg/kg bw/day
n-butyl acetate	Consumer	inhalation	long term systemic effects	/	35.7 mg/m ³
n-butyl acetate	Consumer	inhalation	short term systemic effects	/	300 mg/m ³
n-butyl acetate	Consumer	inhalation	long term local effects	/	35.7 mg/m ³
n-butyl acetate	Consumer	inhalation	short term local effects	/	300 mg/m ³
n-butyl acetate	Consumer	dermal	long term systemic effects	/	6 mg/kg bw/day
n-butyl acetate	Consumer	dermal	short term systemic effects	/	6 mg/kg bw/day
n-butyl acetate	Consumer	oral	long term systemic effects	/	2 mg/kg bw/day
n-butyl acetate	Consumer	oral	short term systemic effects	/	2 mg/kg bw/day
butanone	Worker	inhalation	long term systemic effects	/	600 mg/m ³
butanone	Worker	dermal	long term systemic effects	/	1161 mg/kg bw/day
butanone	Consumer	inhalation	long term systemic effects	/	106 mg/m ³
butanone	Consumer	dermal	long term systemic effects	/	412 mg/kg bw/day
butanone	Consumer	oral	long term systemic effects	/	31 mg/kg bw/day
ethyl acetate	Worker	inhalation	long term systemic effects	/	734 mg/m ³

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ethyl acetate	Worker	inhalation	short term systemic effects	/	1468 mg/m ³
ethyl acetate	Worker	inhalation	long term local effects	/	734 mg/m ³
ethyl acetate	Worker	inhalation	short term local effects	/	1468 mg/m ³
ethyl acetate	Worker	dermal	long term systemic effects	/	63 mg/kg bw/day
ethyl acetate	Consumer	inhalation	long term systemic effects	/	367 mg/m ³
ethyl acetate	Consumer	inhalation	short term systemic effects	/	734 mg/m ³
ethyl acetate	Consumer	inhalation	long term local effects	/	367 mg/m ³
ethyl acetate	Consumer	inhalation	short term local effects	/	734 mg/m ³
ethyl acetate	Consumer	dermal	long term systemic effects	/	37 mg/kg bw/day
ethyl acetate	Consumer	oral	long term systemic effects	/	4.5 mg/kg bw/day
reaction mass of ethylbenzene and m-xylene and p-xylene	Worker	inhalation	long term systemic effects	/	221 mg/m ³
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

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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 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
aluminium powder (stabilised)	Worker	inhalation	long term systemic effects	/	3.72 mg/m ³
aluminium powder (stabilised)	Worker	inhalation	long term local effects	/	3.72 mg/m ³

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aluminium powder (stabilised)	Consumer	oral	long term systemic effects	/	7.9 mg/kg bw/day
2-Butoxy-ethanol	Worker	inhalation	long term systemic effects	/	98 mg/m ³
2-Butoxy-ethanol	Worker	inhalation	short term systemic effects	/	1091 mg/m ³
2-Butoxy-ethanol	Worker	inhalation	short term local effects	/	246 mg/m ³
2-Butoxy-ethanol	Worker	dermal	long term systemic effects	/	125 mg/kg bw/day
2-Butoxy-ethanol	Worker	dermal	short term systemic effects	/	89 mg/kg bw/day
2-Butoxy-ethanol	Consumer	inhalation	long term systemic effects	/	59 mg/m ³
2-Butoxy-ethanol	Consumer	inhalation	short term systemic effects	/	426 mg/m ³
2-Butoxy-ethanol	Consumer	inhalation	short term local effects	/	147 mg/m ³
2-Butoxy-ethanol	Consumer	dermal	long term systemic effects	/	75 mg/kg bw/day
2-Butoxy-ethanol	Consumer	dermal	short term systemic effects	/	89 mg/kg bw/day
2-Butoxy-ethanol	Consumer	oral	long term systemic effects	/	6.3 mg/kg bw/day
2-Butoxy-ethanol	Consumer	oral	short term systemic effects	/	26.7 mg/kg bw/day
butan-1-ol	Worker	inhalation	long term local effects	/	310 mg/m ³
butan-1-ol	Consumer	inhalation	long term systemic effects	/	55.357 mg/m ³

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butan-1-ol	Consumer	inhalation	long term local effects	/	155 mg/m ³
butan-1-ol	Consumer	dermal	long term systemic effects	/	3.125 mg/kg bw/day
butan-1-ol	Consumer	oral	long term systemic effects	/	1.562 mg/kg bw/day
isopropanol	Worker	inhalation	long term systemic effects	/	500 mg/m ³
isopropanol	Worker	dermal	long term systemic effects	/	888 mg/kg bw/day
isopropanol	Consumer	inhalation	long term systemic effects	/	89 mg/m ³
isopropanol	Consumer	dermal	long term systemic effects	/	319 mg/kg bw/day
isopropanol	Consumer	oral	long term systemic effects	/	26 mg/kg bw/day
ethanol	Worker	inhalation	long term systemic effects	/	950 mg/m ³
ethanol	Worker	dermal	long term systemic effects	/	343 mg/kg bw/day
ethanol	Consumer	inhalation	long term systemic effects	/	114 mg/m ³
ethanol	Consumer	dermal	long term systemic effects	/	206 mg/kg bw/day
ethanol	Consumer	oral	long term systemic effects	/	87 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

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Name	Type	Exposure route	exp. frequency	Remark	value
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
2,6-dimethylheptan-4-one	Worker	inhalation	long term systemic effects	/	53 mg/m ³
2,6-dimethylheptan-4-one	Worker	dermal	long term systemic effects	/	7.7 mg/kg bw/day
maleic anhydride	Worker	inhalation	long term systemic effects	/	0.4 mg/m ³
maleic anhydride	Worker	inhalation	short term systemic effects	/	0.8 mg/m ³
maleic anhydride	Worker	inhalation	long term local effects	/	0.4 mg/m ³
maleic anhydride	Worker	inhalation	short term local effects	/	0.8 mg/m ³

PNEC values

For product

No information.

For components

Name	Exposure route	Remark	value
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
n-butyl acetate	fresh water	/	0.18 mg/L
n-butyl acetate	water, intermittent release	/	0.36 mg/L

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Name	Exposure route	Remark	value
n-butyl acetate	marine water	/	0.018 mg/L
n-butyl acetate	water treatment plant	/	35.6 mg/L
n-butyl acetate	fresh water sediment	dry weight	0.981 mg/kg
n-butyl acetate	marine water sediment	dry weight	0.098 mg/kg
n-butyl acetate	soil	dry weight	0.09 mg/kg
butanone	fresh water	/	55.8 mg/L
butanone	water, intermittent release	/	55.8 mg/L
butanone	marine water	/	55.8 mg/L
butanone	water treatment plant	/	709 mg/L
butanone	fresh water sediment	dry weight	284.74 mg/kg
butanone	marine water sediment	dry weight	284.7 mg/kg
butanone	soil	dry weight	22.5 mg/kg
butanone	secondary poisoning	food	1000 mg/kg
ethyl acetate	fresh water	/	0.24 mg/L
ethyl acetate	water, intermittent release	/	1.65 mg/L
ethyl acetate	marine water	/	0.024 mg/L
ethyl acetate	water treatment plant	/	650 mg/L
ethyl acetate	fresh water sediment	dry weight	1.15 mg/kg
ethyl acetate	marine water sediment	dry weight	0.115 mg/kg
ethyl acetate	soil	dry weight	0.148 mg/kg
ethyl acetate	secondary poisoning	food	0.2 g/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
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

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Name	Exposure route	Remark	value
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
2-Butoxy-ethanol	fresh water	/	8.8 mg/L
2-Butoxy-ethanol	water, intermittent release	/	26.4 mg/L
2-Butoxy-ethanol	marine water	/	0.88 mg/L
2-Butoxy-ethanol	water treatment plant	/	463 mg/L
2-Butoxy-ethanol	fresh water sediment	dry weight	34.6 mg/kg
2-Butoxy-ethanol	marine water sediment	dry weight	3.46 mg/kg
2-Butoxy-ethanol	soil	dry weight	2.33 mg/kg
2-Butoxy-ethanol	secondary poisoning	food	0.02 g/kg
butan-1-ol	fresh water	/	0.082 mg/L
butan-1-ol	water, intermittent release	/	2.25 mg/L
butan-1-ol	marine water	/	0.008 mg/L
butan-1-ol	water treatment plant	/	2476 mg/L
butan-1-ol	fresh water sediment	dry weight	0.324 mg/kg
butan-1-ol	marine water sediment	dry weight	0.032 mg/kg
butan-1-ol	soil	dry weight	0.017 mg/kg
isopropanol	fresh water	/	140.9 mg/L
isopropanol	water, intermittent release	/	140.9 mg/L
isopropanol	marine water	/	140.9 mg/L
isopropanol	water treatment plant	/	2251 mg/L
isopropanol	fresh water sediment	dry weight	552 mg/kg
isopropanol	marine water sediment	dry weight	552 mg/kg
isopropanol	soil	dry weight	28 mg/kg
isopropanol	secondary poisoning	food	160 mg/kg
ethanol	fresh water	/	0.96 mg/L
ethanol	water, intermittent release	/	2.75 mg/L
ethanol	marine water	/	0.79 mg/L
ethanol	water treatment plant	/	580 mg/L
ethanol	fresh water sediment	dry weight	3.6 mg/kg
ethanol	marine water sediment	dry weight	2.9 mg/kg

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Name	Exposure route	Remark	value
ethanol	soil	dry weight	0.63 mg/kg
ethanol	secondary poisoning	food	0.38 g/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
Ethylbenzene	soil	dry weight	2.68 mg/kg
Ethylbenzene	secondary poisoning	food	0.02 g/kg
2,6-dimethylheptan-4-one	fresh water	/	0.03 mg/L
2,6-dimethylheptan-4-one	water, intermittent release	/	0.3 mg/L
2,6-dimethylheptan-4-one	marine water	/	0.003 mg/L
2,6-dimethylheptan-4-one	water treatment plant	/	2.55 mg/L
2,6-dimethylheptan-4-one	fresh water sediment	dry weight	0.46 mg/kg
2,6-dimethylheptan-4-one	marine water sediment	dry weight	0.046 mg/kg
2,6-dimethylheptan-4-one	soil	dry weight	0.075 mg/kg
maleic anhydride	fresh water	/	0.1 mg/L
maleic anhydride	water, intermittent release	/	0.428 mg/L
maleic anhydride	marine water	/	0.01 mg/L
maleic anhydride	water treatment plant	/	44.6 mg/L
maleic anhydride	fresh water sediment	dry weight	0.334 mg/kg
maleic anhydride	marine water sediment	dry weight	0.033 mg/kg
maleic anhydride	soil	dry weight	0.042 mg/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. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Keep eyewash bottles or personal eyewash units and emergency showers available.

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Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

Wear tight fitting protective goggles and/or face protection (EN 166).

Hand protection

Protective gloves (EN ISO 374-1:2016). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

Skin protection

Protective antistatic clothing EN 1149 (1:2006, 2:1998 and 3:2004, 5:2008), protective antistatic shoes (EN 20345:2012). At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS 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). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

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

Do not allow product to reach drains, sewage systems or ground water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

silver

Odour

characteristic

Important health, safety and environmental information

Odour threshold

No information.

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Melting point/Freezing point	No information.
Boiling point or initial boiling point and boiling range	> 35 °C
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	< 23 °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	No information.
Vapour pressure	No information.
Density and/or relative density	Density: 0.96 g/cm ³
Relative vapour density	No information.
Particle characteristics	No information.

9.2 Other information

Solids content	0 % 0 vol %
Weight organic solvents	653 g/l (VOC (CH))
Explosive properties	No information.

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Vapours and air can form flammable or explosive mixtures.

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10.4 Conditions to avoid

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

10.5 Incompatible materials

Oxidants.
Water.

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
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	/	/
n-butyl acetate	dermal	LD ₅₀	rabbit	/	5000 mg/kg	/	/
n-butyl acetate	inhalation	LC ₅₀	rat	4 h	9.6 - 29.2 mg/l	/	dust/aerosol
n-butyl acetate	oral	LD ₅₀	rat	/	4700 mg/kg	/	/
butanone	oral	LD ₅₀	rat	/	2737 mg/kg	/	/
butanone	dermal	LD ₅₀	rabbit	/	6480 mg/kg	/	/
butanone	inhalation	LC ₅₀	rat	4 h	23.5 mg/l	/	vapour
ethyl acetate	oral	LD ₅₀	rabbit	/	4935 mg/kg	/	/
ethyl acetate	inhalation	LC ₅₀	rat	4 h	1600 mg/l	/	/

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Name	Exposure route	Type	Species	Time	value	Method	Remark
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	/	/
aluminium powder (stabilised)	oral	LD ₅₀	rat	/	> 2000 mg/kg	/	/
aluminium powder (stabilised)	inhalation	LC ₅₀	rat	/	> 888 mg/m ³	/	/
aluminium powder (stabilised)	inhalation	NOAEC	rat	/	10 mg/m ³	/	/
2-Butoxy-ethanol	oral	LD ₅₀	rat	/	560 mg/kg	/	/
2-Butoxy-ethanol	dermal	LD ₅₀	rabbit	/	1800 mg/kg	/	/
2-Butoxy-ethanol	oral	LD ₅₀	mouse	/	1200 mg/kg	/	/
2-Butoxy-ethanol	inhalation	LC ₅₀	rat	4 h	2400 mg/l	/	dust/aerosol

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Name	Exposure route	Type	Species	Time	value	Method	Remark
Naphtha (petroleum), hydrotreated heavy	oral	LD ₅₀	rat	/	> 5000 mg/kg	/	/
Naphtha (petroleum), hydrotreated heavy	dermal	LD ₅₀	rabbit	/	> 5000 mg/kg	/	/
Naphtha (petroleum), hydrotreated heavy	inhalation	LC ₅₀	rat	4 h	4951 mg/m ³	/	/
2-methylpropan-1-ol	oral	LD ₅₀	rat	/	2460 mg/kg	/	/
butan-1-ol	oral	LD ₅₀	rat	/	790 mg/kg	/	/
butan-1-ol	dermal	LD ₅₀	rabbit	/	3400 mg/kg	/	/
butan-1-ol	inhalation	LC ₅₀	rat	4 h	24.64 mg/l	/	dust/aerosol
hydrocarbons, C9, aromatic	oral	LD ₅₀	rat	/	3592 mg/kg	/	/
hydrocarbons, C9, aromatic	dermal	LD ₅₀	rabbit	/	3160 mg/kg	/	/
isopropanol	oral	LD ₅₀	/	/	2000 mg/kg	/	/
isopropanol	oral	LD ₅₀	mouse	/	3600 mg/kg	/	/
isopropanol	oral	LD ₅₀	rabbit	/	6410 mg/kg	/	/
isopropanol	oral	LD ₅₀	rat	/	4570 mg/kg	/	/
isopropanol	oral	LD ₅₀	rat	/	> 5000 mg/kg	/	/
isopropanol	oral	LD ₅₀	rat	/	5840 mg/kg	OECD 401	experimental value
isopropanol	oral	ATE	/	/	4396 mg/kg	/	/

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Name	Exposure route	Type	Species	Time	value	Method	Remark
isopropanol	oral	LDLo	human	/	100 ml	/	estimate
isopropanol	dermal	LD ₅₀	/	/	2000 mg/kg	/	/
isopropanol	dermal	LD ₅₀	mouse	/	6 mg/kg	/	/
isopropanol	dermal	LD ₅₀	rabbit	/	13400 mg/kg	/	/
isopropanol	dermal	LD ₅₀	rat	/	12800 mg/kg	/	/
isopropanol	dermal	LD ₅₀	rabbit	/	139000 mg/kg	/	/
isopropanol	dermal	LD ₅₀	rat	/	12800 mg/kg	/	/
isopropanol	dermal	LD ₅₀	rabbit	4 h	> 2000 mg/kg	OECD 402	experimental value
isopropanol	dermal	LD ₅₀	rabbit	24 h	16.4 ml/kg	OECD 402	experimental value
isopropanol	dermal	ATE	/	/	12870 mg/kg	/	/
isopropanol	inhalation	LC ₅₀	/	4 h	5 mg/l	/	vapour
isopropanol	inhalation	LC ₅₀	mouse	4 h	27.2 - 48 mg/l	/	vapour
isopropanol	inhalation	LC ₅₀	rat	4 h	72.6 mg/l	/	/
isopropanol	inhalation	LC ₅₀	rat	4 h	30 mg/l	/	vapour
isopropanol	inhalation	LC ₅₀	rat	4 h	30 mg/l	/	dust/aerosol
isopropanol	inhalation	LC ₅₀	rabbit	4 h	12800 ppmV	/	gas
isopropanol	inhalation	LC ₅₀	rat	4 h	30 ppmV	/	gas
isopropanol	inhalation	LC ₅₀	rat	8 h	> 10 mg/l	/	/
isopropanol	inhalation	LC ₅₀	/	/	> 5000 mg/l	/	/
isopropanol	inhalation	LC ₅₀	rat	4 h	72.6 mg/l	/	/

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Name	Exposure route	Type	Species	Time	value	Method	Remark
isopropanol	inhalation	LC ₅₀	rat	4 h	28500 ppm	/	/
isopropanol	inhalation	LC ₅₀	rat	4 h	30000 mg/m ³	/	/
isopropanol	inhalation	LC ₅₀	rat	6 h	> 25000 mg/l	/	/
isopropanol	inhalation	LC ₅₀	rat	8 h	47.5 mg/m ³	/	/
isopropanol	INV	LD ₅₀	rat	/	1088 mg/kg bw	/	/
isopropanol	SCU	LD ₅₀	mouse	/	6 mg/kg bw	/	/
isopropanol	inhalation (vapours)	LC ₅₀	rat	6 h	> 10000 ppm	OECD 403	experimental value
ethanol	dermal	LD ₅₀	rabbit	/	20000 mg/kg	/	/
ethanol	oral	LD ₅₀	rat	/	6200 - 17800 mg/kg	/	/
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
2,6-dimethylheptan-4-one	oral	LD ₅₀	mouse	/	1419 mg/kg	/	/
2,6-dimethylheptan-4-one	dermal	LD ₅₀	rabbit	/	20 mg/kg	/	/
maleic anhydride	oral	LD ₅₀	rat	/	1090 mg/kg	/	/
maleic anhydride	inhalation	LC ₅₀	rat	1 h	> 4.35 mg/l	/	/
maleic anhydride	oral	LD ₅₀	rabbit	/	2620 mg/kg	/	/

Additional information

Harmful if inhaled.

(b) Skin corrosion/irritation

For components

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Name	Species	Time	result	Method	Remark
butanone	/	/	Irritating.	/	/
Naphtha (petroleum), hydrotreated heavy	/	/	Prolonged and repeated contact can cause dermatitis.	/	/
isopropanol	/	/	(Rabbit)	/	/
isopropanol	/	/	Irritating.	/	/
isopropanol	/	/	Non-irritant.	/	/
isopropanol	/	/	With prolonged exposure leads to dry skin.	/	/
isopropanol	/	/	{p:13263}	/	/
isopropanol	human	/	Non-irritant.	Human observation	experimental value
isopropanol	rabbit	/	Mild irritating.	OECD 404 (Acute Dermal Irritation/Corrosion)	/
maleic anhydride	rabbit	/	Corrosive.	/	/

Additional information

Causes skin irritation.

(c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	result	Method	Remark
butanone	/	/	/	Irritating.	/	/
Naphtha (petroleum), hydrotreated heavy	/	/	/	May cause irritation.	/	/
isopropanol	/	/	/	Irritating.	/	/
isopropanol	/	/	/	Steam at high concentrations cause irritation.	/	/
isopropanol	/	rabbit	/	Severe irritation.	OECD 405 Acute Eye Irritation/Corrosion	experimental value

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Name	Exposure route	Species	Time	result	Method	Remark
isopropanol	/	rabbit	/	No irritant effect.	OECD 405 Acute Eye Irritation/Corrosion	/

Additional information

Causes serious eye damage.

(d) Respiratory or skin sensitisation

For components

Name	Exposure route	Species	Time	result	Method	Remark
Naphtha (petroleum), hydrotreated heavy	dermal	Guinea pig (male)	6 h	Non sensitising.	Equivalent to OECD 406	24, 48 h; Experimental value
isopropanol	dermal	/	/	Guinea pig	/	/
isopropanol	dermal	/	/	Non sensitising.	/	/
isopropanol	dermal	/	/	OECD Guideline 406 (Skin Sensitisation)	/	/
isopropanol	dermal	Guinea pig (male/female)	/	Non sensitising.	Buehler test	/
isopropanol	dermal	Guinea pig (male/female)	21 days	Non sensitising.	OECD 406 (Skin Sensitization)	24, 48 h; experimental value
maleic anhydride	dermal	/	/	Sensitizing.	/	/

Additional information

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

For components

Name	Type	Species	Time	result	Method	Remark
Naphtha (petroleum), hydrotreated heavy	in-vitro mutagenicity	mouse (lymphoma L5178Y)	/	Negative with metabolic activation, negative without metabolic activation.	Equivalent to OECD 476	experimental value

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Name	Type	Species	Time	result	Method	Remark
Naphtha (petroleum), hydrotreated heavy	in-vitro mutagenicity	Bacteria (<i>S. typhimurium</i>)	/	Negative with metabolic activation, negative without metabolic activation.	Equivalent to OECD 471	experimental value
Naphtha (petroleum), hydrotreated heavy	in-vitro mutagenicity	Yeast (<i>S. cerevisiae</i>)	/	Negative with metabolic activation, negative without metabolic activation.	Equivalent to OECD 471	experimental value
Naphtha (petroleum), hydrotreated heavy	in-vivo mutagenicity	rat (male/female)	4 weeks	Negative.	EPA OTS 798.5395	5 days a week, 6 hours per day; experimental value
Naphtha (petroleum), hydrotreated heavy	in-vivo mutagenicity	rat (male)	5 days	Negative.	Equivalent to OECD 475	experimental value
isopropanol	in-vitro mutagenicity	/	/	Negative with metabolic activation, negative without metabolic activation.	/	/
isopropanol	in-vitro mutagenicity	Bacteria (<i>S. typhimurium</i>)	/	Negative.	OECD 471 (EU B. 12/13)	experimental value
isopropanol	in-vitro mutagenicity	Chinese hamster ovary	/	Negative.	OECD 476	experimental value
isopropanol	in-vivo mutagenicity	mouse	/	Negative.	OECD 474	experimental value
maleic anhydride	in-vitro mutagenicity	/	/	Negative.	/	/
maleic anhydride	in-vivo mutagenicity	/	/	Negative.	/	/

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(f) Carcinogenicity

For components

Name	Exposure route	Type	Species	Time	value	result	Method	Remark
Naptha (petroleum), hydrotreated heavy	/	/	/	/	/	Negative	OECD 453	read-across
isopropanol	inhalation (vapours)	NOEL	mouse	546 days	5000 ppm	No effect	OECD 451 Carcinogenicity Studies	5 days per week, 6 h per day; experimental value
maleic anhydride	dermal	NOEL	rat	/	100 mg/kg bw/day	/	/	/

(g) Reproductive toxicity

For components

Name	Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
Naptha (petroleum), hydrotreated heavy	Developmental toxicity	NOAEL	rat (female)	20 days	23900 mg/m ³	/	Equivalent to OECD 414	6 h per day, experimental value
Naptha (petroleum), hydrotreated heavy	Effect on fertility	NOAEC (P/F1)	rat (male/female)	23 weeks	≥ 20000 mg/m ³ (air)	/	Equivalent to OECD 416	6h/day, 7 days/week, Experimental value

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Name	Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
Naphtha (petroleum), hydrotreated heavy	Effect on fertility	NOAEL (P/F1)	rat (male/female)	9 weeks	24700 mg/m ³ (air)	/	Equivalent to OECD 421	6h/day, 7 days/week, Experimental value
isopropanol	Developmental toxicity	NOAEL	rat	1 months	596 mg/kg/day	/	OECD 414	Weight of evidence
isopropanol	Effect on fertility	NOAEL (F1)	rat	/	500 mg/kg/day	/	OECD 416	Weight of evidence
isopropanol	Effect on fertility	NOEL	rat	70 days	853 mg/kg/day	/	OECD 415	Weight of evidence
maleic anhydride	Reproductive toxicity	NOAEL	rat	/	55 mg/kg	/	two-generation study	/

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remark
Naphtha (petroleum), hydrotreated heavy	-	-	/	/	/	/	/	Category 3	/	no effect

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Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Rem
Naphtha (petroleum), hydro treated heavy	inhalation	/	/	/	/	/	/	Vapours and aerosols of unusually high concentrations (in poorly ventilated or enclosed spaces) may cause respiratory irritation, headache, nausea, vomiting, dizziness, and in extreme cases unconsciousness and even asphyxiation.	/	/
isopropanol	inhalation	/	/	/	/	/	/	Vapors may cause drowsiness and dizziness.	/	/
isopropanol	inhalation	/	/	/	/	/	/	Causes respiratory tract irritation.	/	/
isopropanol	inhalation	/	/	/	/	/	/	Symptoms: headache, dizziness, nausea, vomiting, drowsiness.	/	/

Additional information

May cause drowsiness or dizziness. May cause respiratory irritation.

(i) STOT-repeated exposure

For components

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Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remark
isopropanol	inhalation (vapours)	NOAEL	rat	104 weeks	sub-chronic	general	5000 ppm	No effect.	OECD 451	6 h per day, 5 days per week
isopropanol	inhalation (vapours)	-	rat	6 h	sub-chronic	central nervous system	5000 ppm	Drowsiness, dizziness	OECD 403	experimental value

Additional information

May cause damage to organs through prolonged or repeated exposure.

(j) Aspiration hazard

For components

Name	result	Method	Remark
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1	/	/

Additional information

Aspiration hazard: Not classified.

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

12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
xylene	LC ₅₀	13.4 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/

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Name	Type	value	Exposure time	Species	organism	Method	Remark
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	/	/	/
n-butyl acetate	LC ₅₀	18 mg/L	96 h	fish	/	/	/
n-butyl acetate	EC ₅₀	44 mg/L	48 h	crustacea	/	/	/
n-butyl acetate	EC ₅₀	675 mg/L	72 h	algae	/	/	/
butanone	EC ₅₀	5091 mg/L	48 h	crustacea	/	/	/
butanone	LC ₅₀	3220 mg/L	96 h	fish	/	/	/
butanone	EC ₅₀	1150 mg/L	/	bacteria	/	/	/

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Name	Type	value	Exposure time	Species	organism	Method	Remark
reaction mass of ethylbenzene and m-xylene and p-xylene	LC ₅₀	> 1.3 mg/L	/	fish	/	/	/
aluminium powder (stabilised)	LC ₅₀	> 218.64 mg/L	96 h	fish	<i>Pimephales promelas</i>	ASTM	Semi-Static system, Fresh water, weight evidence GLP
Naphtha (petroleum), hydrotreated heavy	LL/EL/IL ₅₀	> 1000 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
Naphtha (petroleum), hydrotreated heavy	LL/EL/IL ₅₀	1000 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
Naphtha (petroleum), hydrotreated heavy	LL/EL/IL ₅₀	> 1000 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	/
2-methylpropan-1-ol	LC ₅₀	1430 mg/L	96 h	fish	/	/	/
2-methylpropan-1-ol	EC ₅₀	1439 mg/L	48 h	crustacea	/	/	/
butan-1-ol	LC ₅₀	1376 mg/L	96 h	fish	/	/	/
butan-1-ol	EC ₅₀	1328 mg/L	48 h	crustacea	/	/	/
hydrocarbons, C9, aromatic	EC ₅₀	3.2 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/

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hydrocarbons, C9, aromatic	EC50	9.2 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
hydrocarbons, C9, aromatic	EC ₅₀	2.75 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	/
isopropanol	LC ₅₀	9640 mg/L	96 h	fish	/	/	/
isopropanol	LC ₅₀	> 100 mg/L	48 h	fish	/	/	/
isopropanol	LC ₅₀	9640 mg/L	96 h	fish	/	/	/
isopropanol	LC ₅₀	9.64 mg/L	96 h	fish	/	/	/
isopropanol	LC ₅₀	9640 mg/L	96 h	fish	/	/	/
isopropanol	LC ₅₀	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
isopropanol	LC ₅₀	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
isopropanol	LC ₅₀	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
isopropanol	LC ₅₀	mg/L	96 h	fish	<i>Pimephales promelas</i>	OECD Guideline 203 (Fish, Acute Toxicity Test)	/
isopropanol	LC ₅₀	8970 mg/L	48 h	fish	<i>Leuciscus idus</i>	/	/
isopropanol	LC ₅₀	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
isopropanol	LC ₅₀	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	OECD Guideline 203 (Fish, Acute Toxicity Test)	/

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Name	Type	value	Exposure time	Species	organism	Method	Remark
isopropanol	LC ₅₀	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
isopropanol	LC ₅₀	9714 mg/L	24 h	crustacea	<i>Daphnia magna</i>	/	/
isopropanol	LC ₅₀	2285 - 13299 mg/L	48 h	daphnia	/	/	/
isopropanol	EC ₅₀	13299 mg/L	48 h	crustacea	/	/	/
isopropanol	EC ₅₀	13299 mg/L	48 h	crustacea	/	/	/
isopropanol	EC ₅₀	13299 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
isopropanol	EC ₅₀	13299 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
isopropanol	EC ₅₀	mg/L	48 h	crustacea	<i>Daphnia magna</i>	202 (Daphnia sp. Acute Immobilisation Test)	/
isopropanol	EC ₅₀	3.8 mg/L	8 h	crustacea	<i>Daphnia magna</i>	/	/
isopropanol	EC ₅₀	9714 mg/L	24 h	crustacea	<i>Daphnia magna</i>	/	/
isopropanol	EC ₅₀	13299 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
isopropanol	EC ₅₀	1800 mg/L	24 h	algae	/	/	/
isopropanol	EC ₅₀	1000 mg/L	72 h	algae	/	/	/
isopropanol	EC ₅₀	1800 mg/L	24 h	algae	/	/	/
isopropanol	EC ₅₀	> 1000 mg/L	72 h	algae	/	/	/
isopropanol	EC ₅₀	1000 mg/L	72 h	algae	/	/	/
isopropanol	EC ₅₀	1000 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/

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Name	Type	value	Exposure time	Species	organism	Method	Remark
isopropanol	EC ₅₀	100 mg/kg	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
isopropanol	EC ₅₀	1000 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
isopropanol	EC ₅₀	> 1000 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	UBA	Experimental value growth rate
isopropanol	EC ₅₀	5175 mg/L	/	bacteria	/	/	/
isopropanol	EC ₅₀	5175 mg/L	/	bacteria	/	/	/
isopropanol	EC ₅₀	41676 mg/L	30 min	bacteria	Activated sludge	DIN EN ISO 8192	experimental value activated sludge
isopropanol	EC ₅₀	1050 mg/L	16 h	bacteria	<i>Pseudomonas putida</i>	/	/
isopropanol	EC ₅₀	5175 mg/L	18 h	bacteria	<i>Pseudomonas putida</i>	/	/
isopropanol	EC ₅₀	9714 mg/L	24 h	daphnia	/	/	/
isopropanol	EC ₅₀	9714 mg/L	24 h	daphnia	/	/	/
isopropanol	EC ₅₀	13299 mg/L	48 h	daphnia	<i>Daphnia magna</i>	/	experimental value
isopropanol	EC ₅₀	13299 mg/L	48 h	daphnia	<i>Daphnia magna</i>	/	/
isopropanol	EC ₅₀	> 100 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/

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Name	Type	value	Exposure time	Species	organism	Method	Remark
isopropanol	EC ₅₀	13299 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)	/
isopropanol	EC ₅₀	10000 mg/L	24 h	crustacea	<i>Daphnia magna</i>	/	/
isopropanol	EC ₅₀	1000 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
isopropanol	EC ₅₀	mg/L	96 h	Aquatic plants	<i>Scenedesmus subspicatus</i>	OECD Guideline 201 (Alga, Growth Inhibition Test)	/
isopropanol	EC ₅₀	> 1000 mg/L	/	microorganisms	Activated sludge	/	/
isopropanol	IC ₅₀	1000 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
isopropanol	IC ₅₀	1000 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
isopropanol	ErC ₅₀	> 100 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	/
isopropanol	ErC ₅₀	> 1000 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
isopropanol	EC ₁₀	5175 mg/L	18 h	bacteria	<i>Pseudomonas putida</i>	/	/
isopropanol	EC ₁₀	5175 mg/L	18 h	activated sludge	<i>Pseudomonas putida</i>	DIN 38412/part 8	/
isopropanol	LC0	100 mg/L	48 h	fish	<i>Leuciscus idus</i>	/	/

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Name	Type	value	Exposure time	Species	organism	Method	Remark
isopropal nol	LC/EC/IC ₅₀	100 - 1000 mg/L	/	fish	/	/	/
isopropal nol	LC/EC/IC ₅₀	> 1000 mg/L	/	daphnia	/	/	/
isopropal nol	LC/EC/IC ₅₀	100 mg/L	48 h	daphnia	<i>Daphnia magna</i>	/	/
isopropal nol	LC ₅₀ /EC ₅₀ /IC ₅₀	> 1000 mg/L	/	algae	/	/	/
isopropal nol	LC ₅₀ /EC ₅₀ /IC ₅₀	> 1000 mg/L	/	bacteria	/	/	/
isopropal nol	EC ₅₀	> 1000 mg/L	96 h	algae	<i>Desmodesmus subspicatus</i>	OECD Guideline 201 (Alga, Growth Inhibition Test)	/
isopropal nol	LC ₅₀	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	OECD Guideline 203 (Fish, Acute Toxicity Test)	Flow-through system, Fresh water, Experimental lethal
Ethylbenzene	EC ₅₀	2.1 mg/L	48 h	<i>Daphnia</i>	/	/	/
2,6-dimethylheptan-4-one	LC ₅₀	140 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
2,6-dimethylheptan-4-one	EC ₅₀	250 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
2,6-dimethylheptan-4-one	EC ₅₀	100 mg/L	96 h	algae	<i>Selenastrum capricornutum</i>	/	/
maleic anhydride	LC ₅₀	75 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
maleic anhydride	LC ₅₀	75 mg/L	96	fish	<i>Oncorhynchus mykiss</i>	/	/

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Name	Type	value	Exposure time	Species	organism	Method	Remark
maleic anhydride	EC ₅₀	42.81 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
maleic anhydride	EC ₅₀	150 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	/
maleic anhydride	EC ₁₀	44.6 mg/L	18 h	microorganisms	<i>Pseudomonas putida</i>	/	/

Chronic (long-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
aluminium powder (stabilised)	NOEC	> 50 mg/l	96 h	fish	<i>Leuciscus idus</i>	/	/
aluminium powder (stabilised)	NOEC	0.169 mg/l	60 days	fish	/	/	/
Naphtha (petroleum), hydrotreated heavy	NOEL	2.6 mg/l	14 days	fish	<i>Pimephales promelas</i>	OECD 204	semi-static, fresh water, similar product GLP
Naphtha (petroleum), hydrotreated heavy	NOEL	2.6 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	semi-static, fresh water, similar product GLP
isopropanol	NOEC	30 mg/l	21 days	crustacea	<i>Daphnia magna</i>	/	/
isopropanol	NOEC	1800 mg/l	7 days	algae	<i>Algae</i>	/	/
isopropanol	LOEC	1000 mg/l	8 days	algae	/	/	/
maleic anhydride	NOEC	10 mg/l	21 days	crustacea	<i>Daphnia magna</i>	/	/

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Name	Type	value	Exposure time	Species	organism	Method	Remark
maleic anhydride	NOEC	11.8 mg/l	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	/

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
reaction mass of ethylbenzene and m-xylene and p-xylene	BOD	57 - 80 g O ₂ /g	/	/	/	/
Naphtha (petroleum), hydrotreated heavy	aerobic	/	/	inherently biodegradable	/	/
2-methylpropan-1-ol	aerobic	%	/	readily biodegradable	OECD 301 D	/
butan-1-ol	aerobic	%	/	readily biodegradable	OECD 301 D	/
isopropanol	aerobic	%	/	readily biodegradable	/	/
isopropanol	aerobic	%	/	readily biodegradable	OECD 301 E	/
isopropanol	aerobic	53 %	/	/	EU C.6	/
isopropanol	aerobic	86 %	/	readily biodegradable	/	100 mg/l
isopropanol	aerobic	95 %	/	readily biodegradable	OECD 301 E	/

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Name	Type	Rate	Time	Evaluation	Method	Remark
isopropanol	aerobic	95 %	/	readily biodegradable	OECD 301 E	experimental value
isopropanol	aerobic	95 %	/	readily biodegradable	OECD 301 E	/
isopropanol	BOD ₅ /COD	0.53	/	/	/	/
isopropanol	BOD ₅ /COD	0.53	/	/	/	/
isopropanol	COD	2.23 g O ₂ /g	/	/	/	/
isopropanol	BOD	1.19 g O ₂ /g	/	/	/	/
2,6-dimethylheptan-4-one	biodegradability	88 %	/	/	/	/
maleic anhydride	biodegradability	> 90 %	/	rapidly biodegradable	OECD 301 B	/

12.3 Bioaccumulative potential

Partition coefficient

For components

Name	Media	value	Temperature °C	pH	Concentration	Method
reaction mass of ethylbenzene and m-xylene and p-xylene	log Kow	3.12 - 3.2	/	/	/	/
Naphtha (petroleum), hydrotreated heavy	Octanol-water (log Pow)	5.8 - 7.6	/	/	/	/
isopropanol	Octanol-water (log Pow)	0.05	/	/	/	/

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Name	Media	value	Temperature °C	pH	Concentration	Method
isopropanol	Octanol-water (log Pow)	0.05	/	/	/	Experimental value, BASF test
2,6-dimethylheptan-4-one	Log Pow	2.56	/	/	/	/
maleic anhydride	Log Pow	-2.61	/	/	/	/

Bioconcentration factor (BCF)

For components

Name	Species	organism	value	Duration	Evaluation	Method	Remark
reaction mass of ethylbenzene and m-xylene and p-xylene	BCF	/	25.9	/	/	/	/
Naphtha (petroleum), hydrotreated heavy	BCF	/	10 - 2500	/	high	/	/
isopropanol	organism	/	< 100	/	/	/	/
isopropanol	BCF	/	3	/	/	/	/
2,6-dimethylheptan-4-one	BCF	/	7	/	/	/	/

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

For components

Name	Air	Water	Soil	Sediment	(Aquatic) Biota	Method	Remark
Naphtha (petroleum), hydrotreated heavy	/	/	/	/	/	Mackay level 3	Calculated value

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Surface tension

For components

Name	value	Temperature °C	Concentration	Method	Remark
isopropanol	22400 N/m	/	/	/	/
2,6-dimethylheptan-4-one	22800 N/m	/	/	/	/

Adsorption/Desorption

For components

Name	Type	Criterion	value	Evaluation	Method	Remark
reaction mass of ethylbenzene and m-xylene and p-xylene	Soil	log KOC	2.73	/	/	/
Naphtha (petroleum), hydrotreated heavy	Soil	log KOC	< 2.36	/	/	Calculated value
isopropanol	Soil	Henry constant (H)	0.82 Pa.m ³ / mol	/	/	/
isopropanol	Soil	log KOC	1.5	/	/	/
maleic anhydride	Soil	log KOC	1.63	/	/	/

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 product

Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment. Do not allow to reach ground water, water courses or sewage system.

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ACCORDING TO REGULATION (EC) 1907/2006



Product name: **9009 Rim Restore**

Creation date: **29.08.2023**, Revision: **29.08.2023**, Version: **3.0**

For components

butanone

Very volatile, partially soluble in water, absorption into the soil is likely to be readily biodegradable, is not bioaccumulative.

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.

Naphtha (petroleum), hydrotreated heavy

Persistence and degradability: - chemical oxygen demand: 3500 mg/g.

isopropanol

Product is easily biodegradable.

Section 13: Disposal considerations

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Do not allow product to reach drains/sewage systems. 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. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Uncleaned containers should not be perforated, cut or welded. Empty containers represent a fire hazard as they may contain flammable product residues and vapour.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

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 1263	UN 1263	UN 1263	UN 1263





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silco[®]

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ADR/RID	IMDG	IATA	ADN
14.2 UN proper shipping name			
PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)			
3	3	3	3
			
14.4 Packing group			
II	II	II	II
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities 5 L Special provisions 640C, 367, 640D, 650 Packing Instructions P001, IBC02, R001 Special packing provisions PP1 Transport category 2 Tunnel restriction code (D/E) Classification code F1	Limited quantities 5 L EmS F-E, <u>S-E</u> Flash point 23 °C	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y341 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 1 L Packing Instructions (Pkg Inst) 353 Maximum Net Quantity/Package (Max Net Qty/Pkg) 5 L Cargo Aircraft Only, Packing Instructions (CAO, Pkg Inst) 364 Special provisions A3, A72, A192	Limited quantities 5 L
14.7 Maritime transport in bulk according to IMO instruments			

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ADR/RID	IMDG	IATA	ADN
	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: 735 g/l

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

No information.

Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

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

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

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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
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

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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

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H228 Flammable solid.

H261 In contact with water releases flammable gases.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties 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.

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.

EUH071 Corrosive to the respiratory tract.