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

1.1 Product identifier

Galva 97 - Zinc primer Article number: 2893880

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

1.2.1 Relevant uses

Corrosion protection

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Normfest GmbH Siemensstraße 23

42551 Velbert / GERMANY Phone +49 2051 275-0 Fax +49 2051 275-141

Homepage www.normfest.com E-mail info@normfest.de

Address enquiries to

Technical information info@normfest.de

Safety Data Sheet sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Advisory body Call NHS 111 or a doctor

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

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

heated.

STOT SE 3: H336 May cause drowsiness or dizziness. Eye Irrit. 2: H319 Causes serious eye irritation. Aquatic Acute 1: H400 Very toxic to aquatic life.

Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects.

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.

Skin Irrit. 2: H315 Causes skin irritation.

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

Galva 97 - Zinc primer

Article number 2893880

Normfest GmbH

42551 Velbert



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2.2 Label elements

Signal word

The determination of properties hazardous to health does not take the propellant or carrier material into account.

Hazard pictograms



DANGER

Contains: n-Butyl acetate

Acetone

Reaction mass of ethylbenzene and xylene

Hydrocarbons, C9, aromatics

Hazard statements H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated. H336 May cause drowsiness or dizziness.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

H315 Causes skin irritation.

 $\ensuremath{\mathsf{H373}}$ May cause damage to organs through prolonged or repeated exposure.

Precautionary statements 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.

P251 Do not pierce or burn, even after use.

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

P260 Do not breathe vapours / spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing / eye protection / face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

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

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

P405 Store locked up.

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

Special labelling EUH066 Repeated exposure may cause skin dryness or cracking.

2004/42/CE 636 g/l II B e Special finishes (max. 840 g/l)

2.3 Other hazards

Environmental hazardsDoes not contain any PBT or vPvB substances.

Other hazards Contains no ingredients with endocrine-disrupting properties.

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable



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3.2 Mixtures

The product is a mixture.

Range [%]	Substance	
25 - <50	Zinc powder - zinc dust (stabilized)	
	CAS: 7440-66-6, EINECS/ELINCS: 231-175-3, EU-INDEX: 030-002-00-7, Reg-No.: 01-2119467174-37-XXXX	
	GHS/CLP: Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 1	
10 - <25	Butane	
	CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119474691-32-XXXX	
	GHS/CLP: Flam. Gas 1A: H220 - Press. Gas: H280	
10 - <25	n-Butyl acetate	
	CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX	
	GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H336 - EUH066	
10 - <25	Acetone	
	CAS: 67-64-1, EINECS/ELINCS: 200-662-2, EU-INDEX: 606-001-00-8, Reg-No.: 01-2119471330-49-XXXX	
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 - EUH066	
1 - <10	Propane	
	CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5, Reg-No.: 01-2119486944-21-XXXX	
	GHS/CLP: Flam. Gas 1A: H220 - Press. Gas: H280	
1 - <10	Reaction mass of ethylbenzene and xylene	
	EINECS/ELINCS: 905-588-0, Reg-No.: 01-2119488216-32-XXXX, 01-2119486136-34-XXXX	
	GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H312 H332 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - STOT SE 3: H335 - STOT RE 2: H373	
	SCL [%]: >= 10: STOT RE 2: H373	
1 - <10	Hydrocarbons, C9, aromatics	
	CAS: 128601-23-0, EINECS/ELINCS: 918-668-5, Reg-No.: 01-2119455851-35-XXXX	
	GHS/CLP: Flam. Liq. 3: H226 - Asp. Tox. 1: H304 - STOT SE 3: H336 - STOT SE 3: H335 - Aquatic Chronic 2: H411	
<1	Pentan-2-one oxime	
	CAS: 623-40-5, EINECS/ELINCS: 484-470-6, Reg-No.: 01-0000020248-72-XXXX	
	GHS/CLP: Acute Tox. 4: H302 - Eye Irrit. 2: H319 - STOT RE 2: H373 - Aquatic Chronic 3: H412	

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Change soaked clothing.

In the event of symptoms seek medical treatment.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

Eye contact In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion Rinse mouth.

Get medical advice.

Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Headache Vertigo Irritant effects Nausea, vomiting.



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4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

If swallowed or in the event of vomiting, risk of product entering the lungs.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide.

Water spray jet. Dry powder. Foam.

Extinguishing media that must not

be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

risk of formation of toxic pyrolysis products, carbon monoxide (CO), not combusted

hydrocarbons

Bursting aerosols can be forcibly projected from a fire.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.

Ensure adequate ventilation.

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder,

diatomaceous earth).

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Keep away from all sources of ignition - Refrain from smoking.

Vapours can form an explosive mixture with air.

Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work.

Use barrier skin cream.



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7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.

Do not store together with oxidizing agents.

Keep container in a well-ventilated place.

Keep in a cool place, heat causes increase in pressure and risk of bursting.

Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2



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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance

n-Butyl acetate

CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX

Long-term exposure: 150 ppm, 724 mg/m³

Short-term exposure (15-minute): 200 ppm, 966 mg/m³

Acetone

CAS: 67-64-1, EINECS/ELINCS: 200-662-2, EU-INDEX: 606-001-00-8, Reg-No.: 01-2119471330-49-XXXX

Long-term exposure: 500 ppm, 1210 mg/m³

Short-term exposure (15-minute): 1500 ppm, 3620 mg/m³

Rutane

CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119474691-32-XXXX

Long-term exposure: 600 ppm, 1450 mg/m³

Short-term exposure (15-minute): 750 ppm, 1810 mg/m³

Hydrocarbons, C9, aromatics

CAS: 128601-23-0, EINECS/ELINCS: 918-668-5, Reg-No.: 01-2119455851-35-XXXX

Long-term exposure: 100 mg/m³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES

n-Butyl acetate

CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX

Eight hours: 50 ppm, 241 mg/m3

Short-term (15-minute): 150 ppm, 723 mg/m³

Acetone

CAS: 67-64-1, EINECS/ELINCS: 200-662-2, EU-INDEX: 606-001-00-8, Reg-No.: 01-2119471330-49-XXXX

Eight hours: 500 ppm, 1210 mg/m³

DNEL

Substance

Butane, CAS: 106-97-8

There are no DNEL values established for the substance.

Reaction mass of ethylbenzene and xylene

Industrial, inhalative (vapor), Long-term - systemic effects, 221 mg/m³

Industrial, inhalative (vapor), Acute - systemic effects, 442 mg/m³

Industrial, inhalative (vapor), Long-term - local effects, 221 mg/m³

Industrial, inhalative (vapor), Acute - local effects, 442 mg/m³

Industrial, dermal, Long-term - systemic effects, 212 mg/kg bw/day

general population, inhalative (vapor), Acute - local effects, 260 mg/m³

general population, dermal, Acute - local effects, 125 mg/kg bw/day

general population, inhalative (vapor), Long-term - local effects, 65.3 mg/m³

general population, inhalative (vapor), Acute - systemic effects, 260 mg/m³

general population, oral, Long-term - systemic effects, 12.5 mg/kg bw/day

general population, inhalative (vapor), Long-term - systemic effects, 65.3 mg/m³



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Acetone, CAS: 67-64-1		
Industrial, dermal, Long-term - systemic effects, 186 mg/kg bw/d		
Industrial, inhalative, Long-term - local effects, 2420 mg/m³		
Industrial, inhalative, Long-term - systemic effects, 1210 mg/m³		
general population, inhalative, Long-term - systemic effects, 200 mg/m³		
general population, dermal, Long-term - systemic effects, 62 mg/kg bw/d		
general population, oral, Long-term - systemic effects, 62 mg/kg bw/d		
Propane, CAS: 74-98-6		
There are no DNEL values established for the substance.		
n-Butyl acetate, CAS: 123-86-4		
Industrial, inhalative, Long-term - systemic effects, 300 mg/m³		
Industrial, inhalative, Acute - systemic effects, 600 mg/m³		
Industrial, inhalative, Acute - local effects, 600 mg/m³		
Industrial, dermal, Long-term - systemic effects, 11 mg/kg bw/day		
Industrial, dermal, Acute - systemic effects, 11 mg/kg bw/day		
Industrial, inhalative, Long-term - local effects, 300 mg/m³		
general population, inhalative, Long-term - systemic effects, 35.7 mg/m³		
general population, inhalative, Acute - systemic effects, 300 mg/m³		
general population, inhalative, Long-term - local effects, 35.7 mg/m³		
general population, oral, Long-term - systemic effects, 2 mg/kg bw/day		
general population, dermal, Long-term - systemic effects, 6 mg/kg bw/day		
general population, oral, Acute - systemic effects, 2 mg/kg bw/day		
general population, inhalative, Acute - local effects, 300 mg/m³		
general population, dermal, Acute - systemic effects, 6 mg/kg bw/day		
Hydrocarbons, C9, aromatics, CAS: 128601-23-0		
Industrial, inhalative (vapor), Long-term - systemic effects, 150 mg/m³		
Industrial, dermal, Long-term - systemic effects, 25 mg/kg bw/day		
general population, inhalative (vapor), Long-term - systemic effects, 32 mg/m³		
general population, oral, Long-term - systemic effects, 11 mg/kg bw/day		
general population, dermal, Long-term - systemic effects, 11 mg/kg bw/day		

PNEC

Substance		
Butane, CAS: 106-97-8		
There are no PNEC values established for the substance.		
Reaction mass of ethylbenzene and xylene		
soil, 2.31 mg/kg soil dw		
sediment (seawater), 12.46 mg/kg sediment dw		
sediment (freshwater), 12.46 mg/kg sediment dw		
sewage treatment plants (STP), 6.58 mg/L		
seawater, 0.327 mg/L		
freshwater, 0.327 mg/L		
Acetone, CAS: 67-64-1		
sediment (freshwater), 30.4 mg/kg sediment dw		
freshwater, 10.6 mg/L		
soil, 29.5 mg/kg soil dw		
sewage treatment plants (STP), 100 mg/L		
sediment (seawater), 3.04 mg/kg sediment dw		
seawater, 1.06 mg/L		



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Propane, CAS: 74-98-6

There are no PNEC values established for the substance

n-Butyl acetate, CAS: 123-86-4

soil, 0.09 mg/kg/ dw

sediment (seawater), 0.098 mg/kg/ dw

sediment (freshwater), 0.981 mg/kg/ dw

sewage treatment plants (STP), 35.6 mg/L (AF= 10)

seawater, 0.018 mg/L (AF= 1000)

freshwater, 0.18 mg/L (AF= 100)

Hydrocarbons, C9, aromatics, CAS: 128601-23-0

There are no PNEC values established for the substance

Zinc powder - zinc dust (stabilized), CAS: 7440-66-6

sewage treatment plants (STP), 100 µg/L

seawater, 7.2 µg/L

sediment (freshwater), 146.9 mg/kg sediment dw

sediment (seawater), 162.2 mg/kg sediment dw

soil, 83.1 mg/kg

freshwater, 14.4 µg/L

8.2 Exposure controls

Additional advice on system design Ensure adequate ventilation on workstation.

Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances.

Safety glasses. (EN 166:2001) Eye protection

Hand protection 0.7 mm Butyl rubber, >480 min (EN 374-1/-2/-3).

The details concerned are recommendations. Please contact the glove supplier for further

information.

Skin protection Long-sleeved work clothes.

Avoid contact with eyes and skin. Other

Do not inhale gases/vapours/aerosols.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Respiratory protection In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear

appropriate respiratory protection.

Short term: combination filter AX-P2. (DIN EN 14387)

Thermal hazards No information available.

Delimitation and monitoring of the

environmental exposition

not determined



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state liquid **Form** aerosol Color silver-grey Odor characteristic **Odour threshold** not applicable pH-value not applicable pH-value [1%] not applicable Boiling point [°C] not applicable Flash point [°C] not applicable

Flammability yes
Lower explosion limit 1.86 Vol.%
Upper explosion limit 14.3 Vol.%

Oxidising properties no

Vapour pressure/gas pressure [kPa] not applicable

Density [g/cm³] 1.792 (Liquid)

Relative density not determined

Bulk density [kg/m³] not applicable

Solubility in water immiscible

Solubility other solvents No information available.

Partition coefficient [n-octanol/water] not determined Kinematic viscosity not applicable Relative vapour density not applicable Evaporation speed not applicable Melting point [°C] not applicable Auto-ignition temperature [°C] not applicable Decomposition temperature [°C] not applicable Particle characteristics not applicable

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Risk of bursting.

10.4 Conditions to avoid

Strong heating.

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10.5 Incompatible materials

Strong oxidizing agent. Strong acids. Strong bases.

10.6 Hazardous decomposition products

Flammable gases/vapours.



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SECTION 11: Toxicological information

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

Acute oral toxicity

Product

ATE-mix, oral, >2000 mg/kg bw

Substance

Reaction mass of ethylbenzene and xylene

LD50, oral, Rat, 3523 - 4000 mg/kg

Acetone, CAS: 67-64-1

LD50, oral, Rat, 5800 mg/kg bw, OECD 401

n-Butyl acetate, CAS: 123-86-4

LD50, oral, Rat, 10760 mg/kg (OECD 423)

Hydrocarbons, C9, aromatics, CAS: 128601-23-0

LD50, oral, Rat, 6984 mg/kg

Zinc powder - zinc dust (stabilized), CAS: 7440-66-6

LD50, oral, Rat, > 2000 mg/kg bw, OECD 401

Pentan-2-one oxime, CAS: 623-40-5

LD50, oral, Rat, 1133 mg/kg, OECD 425

Acute dermal toxicity

Product

ATE-mix, dermal, >2000 mg/kg bw

Substance

Reaction mass of ethylbenzene and xylene

LD50, dermal, Rabbit, 12126 mg/kg

Acetone, CAS: 67-64-1

LD50, dermal, Rabbit, >15800 mg/kg bw

n-Butyl acetate, CAS: 123-86-4

LD50, dermal, Rabbit, >14112 mg/kg (OECD 402)

Hydrocarbons, C9, aromatics, CAS: 128601-23-0

LD50, dermal, Rabbit, 3160 mg/kg

Acute inhalational toxicity

Product

ATE-mix, inhalativ (mist), >5 mg/L

Substance

Butane, CAS: 106-97-8

LC50, inhalative, Rat, 658 mg/L (IUCLID)

Reaction mass of ethylbenzene and xylene

LC50, inhalation (vapour), Rat, 6350 - 6700 ppm 4h

Acetone, CAS: 67-64-1

LC50, inhalative, Rat, 76 mg/L, 4h

Propane, CAS: 74-98-6

LC50, inhalative, Rat, > 1443 mg/l (15 min) (Lit.)



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n-Butyl acetate, CAS: 123-86-4

LC50, inhalative, Rat, 23.4 mg/l (4h) (OECD 403)

Hydrocarbons, C9, aromatics, CAS: 128601-23-0

LC50, inhalative, Rat, 6.193 mg/L (4h)

Zinc powder - zinc dust (stabilized), CAS: 7440-66-6

LC50, inhalativ (dust), Rat, > 5.41 mg/L 4h, OECD 403

Pentan-2-one oxime, CAS: 623-40-5

LC50, inhalative, Rat, > 295 ppm/4h, OECD 403

Serious eye damage/irritation

Irritant

Substance

Butane, CAS: 106-97-8

Eye, non-irritating

Reaction mass of ethylbenzene and xylene

Eye, irritant

Acetone, CAS: 67-64-1

Eye, irritant

Propane, CAS: 74-98-6

Eye, non-irritating

n-Butyl acetate, CAS: 123-86-4

Eye, Rabbit, OECD 405, non-irritating

Zinc powder - zinc dust (stabilized), CAS: 7440-66-6

Eye, Rabbit, Study, non-irritating

Pentan-2-one oxime, CAS: 623-40-5

Rabbit, OECD 405, irritant

Skin corrosion/irritation

Slight irritant effect.

Substance

Butane, CAS: 106-97-8

dermal, non-irritating

Reaction mass of ethylbenzene and xylene

dermal, irritant

Acetone, CAS: 67-64-1

dermal, non-irritating

Propane, CAS: 74-98-6

dermal, non-irritating

n-Butyl acetate, CAS: 123-86-4

dermal, Rabbit, OECD 404, non-irritating

Zinc powder - zinc dust (stabilized), CAS: 7440-66-6

dermal, Rabbit, Study, non-irritating

Pentan-2-one oxime, CAS: 623-40-5

Rabbit, OECD 439, non-irritating

Respiratory or skin sensitisation

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

Substance

Butane, CAS: 106-97-8

inhalative, non-sensitizing

dermal, non-sensitizing



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Reaction mass of ethylbenzene and xylene		
dermal, non-sensitizing		
Acetone, CAS: 67-64-1		
dermal, non-sensitizing		
Propane, CAS: 74-98-6		
inhalative, non-sensitizing		
dermal, non-sensitizing		
n-Butyl acetate, CAS: 123-86-4		
dermal, Guinea pig, In vivo study, non-sensitizing		
Hydrocarbons, C9, aromatics, CAS: 128601-23-0		
dermal, non-sensitizing		
Zinc powder - zinc dust (stabilized), CAS: 7440-66-6		
dermal, mouse, OECD 429, non-sensitizing		
Pentan-2-one oxime, CAS: 623-40-5		
mouse, Mouse local lymph node assay, OECD 429, non-sensitizing		
dermal, Guinea pig, OECD 406, non-sensitizing		

Specific target organ toxicity — single exposure

Vapours may cause drowsiness and dizziness.

Substance	
Butane, CAS: 106-97-8	
inhalative, non-irritating	
Reaction mass of ethylbenzene and xylene	
inhalative, irritant	
Acetone, CAS: 67-64-1	
inhalative, adverse effect observed	
Propane, CAS: 74-98-6	
inhalative, non-irritating	
n-Butyl acetate, CAS: 123-86-4	
No information available.	
Hydrocarbons, C9, aromatics, CAS: 128601-23-0	
inhalative, adverse effect observed	

Specific target organ toxicity — repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Substance

Reaction mass of ethylbenzene and xylene

NOAEL, oral, Rat, 250 mg/kg bw/day (chronic), adverse effect observed

NOAEC, inhalative, Rat, 3515 mg/m³ (subchronic), adverse effect observed

Acetone, CAS: 67-64-1

NOAEL, oral, mouse, 20000 ppm, no adverse effect observed

NOAEL, oral, Rat, 10000 - 50000 ppm, no adverse effect observed

NOAEC, inhalative, Rat, 19000 ppm, no adverse effect observed

LOAEL, oral, mouse, 50000 ppm, no adverse effect observed

LOAEL, oral, Rat, 20000 ppm, no adverse effect observed

Propane, CAS: 74-98-6

NOAEC, inhalative, Rat, 4437 mg/m³, The effects observed are not sufficient for classification.

n-Butyl acetate, CAS: 123-86-4

NOAEL, oral, Rat, 196 mg/kg bw/day, In vivo study, negativ

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NOAEC, inhalative, Rat, 2400 mg/m³, In vivo study, negativ

Zinc powder - zinc dust (stabilized), CAS: 7440-66-6

NOAEC, inhalativ (dust), Rat, 1.48 mg/m³, OECD 411, adverse effect observed

Pentan-2-one oxime, CAS: 623-40-5

NOAEL, oral, Rat, 150 mg/kg. 28d, OECD 422

NOAEL, oral, Rat, 15 mg/kg. 28d, OECD 422, The effects observed are not sufficient for classification.

NOAEC, inhalative, Rat, 299 ppm, OECD 412

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Substance

Reaction mass of ethylbenzene and xylene

in vivo, no adverse effect observed

n-Butyl acetate, CAS: 123-86-4

Ames-test, negativ

Pentan-2-one oxime, CAS: 623-40-5

Rat, OECD 475, negativ

Rat, OECD 474, negativ

in vitro, OECD 473, negativ

OECD 487, negativ

OECD 471, negativ

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

- Fertility

Substance

n-Butyl acetate, CAS: 123-86-4

NOAEC, inhalative, Rat, 9640 mg/m³, OECD 416, negativ

Zinc powder - zinc dust (stabilized), CAS: 7440-66-6

LOAEL, inhalative, Rat, 7.5 mg/kg bw/day, OECD 416, adverse effect observed

Pentan-2-one oxime, CAS: 623-40-5

NOAEL, oral, Rat, 150 mg/kg bw/d, OECD 422

- Development

Substance

Reaction mass of ethylbenzene and xylene

inhalative, Rat, 4698 mg/m³, no adverse effect observed

n-Butyl acetate, CAS: 123-86-4

LOAEC, inhalation (vapour), Rat, 7230 mg/m³, OECD 414, adverse effect observed

Zinc powder - zinc dust (stabilized), CAS: 7440-66-6

NOAEC, inhalative, Rat, 1.5 mg/m³ air, OECD 414, no adverse effect observed

Pentan-2-one oxime, CAS: 623-40-5

NOAEL, oral, Rat, 150 mg/kg bw/d, OECD 422

Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

Substance

Reaction mass of ethylbenzene and xylene

NOAEL, oral, Rat, 500 mg/kg bw/day (chronic), no adverse effect observed

Aspiration hazard

May be fatal if swallowed and enters airways.



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General remarks

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Does not contain a relevant substance that meets the classification criteria.

11.2.2 Other information

SECTION 12: Ecological information

12.1 Toxicity

Butane, CAS: 106-97-8 LC50, (48h), Invertebrates, 14.22 - 69.43 mg/L Reaction mass of ethylbenzene and xylene LC50, (24h), Daphnia magna, 1 mg/l OECD 202 LC50, (98h), Oncorhynchus mykiss, 2.6 mg/l OECD 203 EC50, (72h), Selenastrum capricornutum, 2.2 mg/l OECD 201 Acetone, CAS: 67-84-1 LC50, (98h), fish, 5.54 - 8.12 g/L LC50, (48h), Daphnia magna, 81.15 g/L NOEC, (98h), Microorganisms, 61.15 g/L NOEC, (28d), Invertebrates, 2.1 g/L EC50, (0.5h), Microorganisms, 61.15 g/L NOEC, (28d), Invertebrates, 1.106 - 2.212 g/L LC50, (28d), Invertebrates, 2.212 g/L LC50, (98h), Pimephales promelas, 18 mg/l (OECD 203) EC50, (48h), Daphnia magna, 44 mg/l EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (98h), Oncorhynchus mykiss, 1.268 mg/l NOEC, (27h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (38h), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (98h), Oncorhynchus mykiss, 0.169 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (78h), Daphnia magna, ≥ 100 mg/L NOEC, (78h), Daphnia magna, ≥ 100 mg/L NOEC, (78h), Daphnia magna, ≥ 100 mg/L	Substance
Reaction mass of ethylbenzene and xylene LC50, (24h), Daphnia magna, 1 mg/l OECD 202 LC50, (96h), Oncorhynchus mykiss, 2.6 mg/l OECD 203 EC50, (72h), Selenastrum capricornutum, 2.2 mg/l OECD 201 Acetone, CAS: 67-64-1 LC50, (96h), fish, 5.54 - 8.12 g/L LC50, (96h), Daphnia pulex, 8800 mg/l LC50, (26h), Invertebrates, 2.1 g/L EC50, (0.5h), Microorganisms, 61.15 g/L NOEC, (96h), Algae, 430 mg/l NOEC, (28d), Invertebrates, 1.106 - 2.212 g/L LOEC, (28d), Invertebrates, 2.106 - 2.212 g/L LOEC, (28d), Invertebrates, 2.212 g/L	Butane, CAS: 106-97-8
LC50, (24h), Daphnia magna, 1 mg/l OECD 202 LC50, (96h), Oncorhynchus mykiss, 2.6 mg/l OECD 203 EC50, (72h), Selenastrum capricornutum, 2.2 mg/l OECD 201 Acetone, CAS: 67-65-14 LC50, (96h), fish, 55-4 - 8.12 g/L LC50, (48h), Daphnia pulex, 8800 mg/l LC50, (24h), Invertebrates, 2.1 g/L EC50, (9.5h), Microorganisms, 61.15 g/L NOEC, (96h), Algae, 430 mg/l NOEC, (28d), Invertebrates, 1.106 - 2.212 g/L LOEC, (28d), Invertebrates, 2.212 g/L LC50, (96h), Pimpehales promelas, 18 mg/l (OECD 203) EC50, (48h), Daphnia magna, 44 mg/l EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (22d), Daphnia magna, 2.144 mg/l ZInc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 1.228 mg/l NOELR, (27d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 1.69 mg Zn/L EC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L	LC50, (48h), Invertebrates, 14.22 - 69.43 mg/L
LC50, (96h), Oncorhynchus mykiss, 2.6 mg/l OECD 203 EC50, (72h), Selenastrum capricornutum, 2.2 mg/l OECD 201 Acetone, CAS: 67-64-1 LC50, (96h), fish, 5.54 - 8.12 g/L LC50, (48h), Daphnia pulex, 8800 mg/l LC50, (24h), Invertebrates, 2.1 g/L ECS0, (96h), Microorganisms, 61.15 g/L NOEC, (96h), Migae, 430 mg/l NOEC, (28d), Invertebrates, 1.106 - 2.212 g/L LOEC, (28d), Invertebrates, 2.12 g/L LOEC, (28d), Invertebrates, 2.212 g/L n-Butyl acetate, CAS: 123-86-4 LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203) EC50, (48h), Daphnia magna, 44 mg/l EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, 0.120 mg/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L	Reaction mass of ethylbenzene and xylene
EC50, (72h), Selenastrum capricomutum, 2.2 mg/l OECD 201 Acetone, CAS: 67-64-1 LC50, (96h), fish, 5.54 - 8.12 g/L LC50, (24h), Daphnia pulex, 8800 mg/l LC50, (24h), Invertebrates, 2.1 g/L EC50, (0,5h), Microorganisms, 61.15 g/L NOEC, (96h), Algae, 430 mg/l NOEC, (96h), Algae, 430 mg/l NOEC, (28d), Invertebrates, 1.106 - 2.212 g/L LCE62, (28d), Invertebrates, 2.12 g/L LDEC5, (28d), Invertebrates, 2.212 g/L n-Butyl acetate, CAS: 123-86-4 LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203) EC50, (48h), Daphnia magna, 44 mg/l EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 6.14 mg/l EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L	LC50, (24h), Daphnia magna, 1 mg/l OECD 202
Acetone, CAS: 67-64-1 LC50, (96h), fish, 5.54 - 8.12 g/L LC50, (48h), Daphnia pulex, 8800 mg/l LC50, (24h), Invertebrates, 2.1 g/L EC50, (0.5h), Microorganisms, 61.15 g/L NOEC, (96h), Algae, 430 mg/l NOEC, (28d), Invertebrates, 1.106 - 2.212 g/L LOEC, (28d), Invertebrates, 2.212 g/L Butyl acetate, CAS: 123-86-4 LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203) EC50, (48h), Daphnia magna, 44 mg/l EC50, (77h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 2.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (22d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L	LC50, (96h), Oncorhynchus mykiss, 2.6 mg/l OECD 203
LC50, (96h), fish, 5.54 - 8.12 g/L LC50, (48h), Daphnia pulex, 8800 mg/l LC50, (24h), Invertebrates, 2.1 g/L EC50, (0.5h), Microorganisms, 61.15 g/L NOEC, (96h), Algae, 430 mg/l NOEC, (28d), Invertebrates, 1.106 - 2.212 g/L LOEC, (28d), Invertebrates, 2.212 g/L n-Butyl acetate, CAS: 123-86-4 LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203) EC50, (48h), Daphnia magna, 44 mg/l EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L	EC50, (72h), Selenastrum capricornutum, 2.2 mg/l OECD 201
LC50, (48h), Daphnia pulex, 8800 mg/l LC50, (24h), Invertebrates, 2.1 g/L EC50, (0,5h), Microorganisms, 61.15 g/L NOEC, (96h), Algae, 430 mg/l NOEC, (28d), Invertebrates, 1.106 - 2.212 g/L LOEC, (28d), Invertebrates, 2.212 g/L n-Butyl acetate, CAS: 123-86-4 LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203) EC50, (48h), Daphnia magna, 44 mg/l EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	Acetone, CAS: 67-64-1
LC50, (24h), Invertebrates, 2.1 g/L EC50, (0.5h), Microorganisms, 61.15 g/L NOEC, (96h), Algae, 430 mg/l NOEC, (28d), Invertebrates, 1.106 - 2.212 g/L LOEC, (28d), Invertebrates, 2.212 g/L n-Butyl acetate, CAS: 123-86-4 LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203) EC50, (48h), Daphnia magna, 44 mg/l EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	LC50, (96h), fish, 5.54 - 8.12 g/L
EC50, (0,5h), Microorganisms, 61.15 g/L NOEC, (96h), Algae, 430 mg/l NOEC, (28d), Invertebrates, 1.106 - 2.212 g/L LOEC, (28d), Invertebrates, 2.212 g/L n-Butyl acetate, CAS: 123-86-4 LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203) EC50, (48h), Daphnia magna, 44 mg/l EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L	LC50, (48h), Daphnia pulex, 8800 mg/l
NOEC, (96h), Algae, 430 mg/l NOEC, (28d), Invertebrates, 1.106 - 2.212 g/L LOEC, (28d), Invertebrates, 2.212 g/L n-Butyl acetate, CAS: 123-86-4 LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203) EC50, (48h), Daphnia magna, 44 mg/l EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L	LC50, (24h), Invertebrates, 2.1 g/L
NOEC, (28d), Invertebrates, 1.106 - 2.212 g/L LOEC, (28d), Invertebrates, 2.212 g/L n-Butyl acetate, CAS: 123-86-4 LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203) EC50, (48h), Daphnia magna, 44 mg/l EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	EC50, (0,5h), Microorganisms, 61.15 g/L
LOEC, (28d), Invertebrates, 2.212 g/L n-Butyl acetate, CAS: 123-86-4 LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203) EC50, (48h), Daphnia magna, 44 mg/l EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	NOEC, (96h), Algae, 430 mg/l
n-Butyl acetate, CAS: 123-86-4 LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203) EC50, (48h), Daphnia magna, 44 mg/l EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L	NOEC, (28d), Invertebrates, 1.106 - 2.212 g/L
LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203) EC50, (48h), Daphnia magna, 44 mg/l EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L	LOEC, (28d), Invertebrates, 2.212 g/L
EC50, (48h), Daphnia magna, 44 mg/l EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	n-Butyl acetate, CAS: 123-86-4
EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l IC50, Bacteria, 356 mg/l (40 h) NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203)
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NOEC, Desmodesmus subspicatus, 200 mg/l Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l
Hydrocarbons, C9, aromatics, CAS: 128601-23-0 LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	IC50, Bacteria, 356 mg/l (40 h)
LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L EC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	NOEC, Desmodesmus subspicatus, 200 mg/l
EC50, (48h), Daphnia magna, 6.14 mg/L EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	Hydrocarbons, C9, aromatics, CAS: 128601-23-0
EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202) NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	LC50, (48h), Oncorhynchus mykiss, 9.22 mg/L
NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201) NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	EC50, (48h), Daphnia magna, 6.14 mg/L
NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	EL50, (48h), Daphnia magna, 3.2 mg/l (OECD 202)
NOELR, (21d), Daphnia magna, 2.144 mg/l Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	NOELR, (72h), Pseudokirchneriella subcapitata, 1 mg/l (OECD 201)
Zinc powder - zinc dust (stabilized), CAS: 7440-66-6 LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	NOELR, (28d), Oncorhynchus mykiss, 1.228 mg/l
LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	NOELR, (21d), Daphnia magna, 2.144 mg/l
IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	Zinc powder - zinc dust (stabilized), CAS: 7440-66-6
Pentan-2-one oxime, CAS: 623-40-5 EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	LC50, (96h), Oncorhynchus mykiss, 0.169 mg Zn/L
EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	IC50, (48h), Selenastrum capricornutum, 0.136 mg Zn/L
NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L NOEC, (48h), Daphnia magna, >= 100 mg/L	Pentan-2-one oxime, CAS: 623-40-5
NOEC, (48h), Daphnia magna, >= 100 mg/L	EC50, (72h), Pseudokirchneriella subcapitata, 54-88 mg/L
	NOEC, (96h), Oncorhynchus mykiss, ca. 100 mg/L
NOEC, (72h), Pseudokirchneriella subcapitata, 32 mg/L	NOEC, (48h), Daphnia magna, >= 100 mg/L
	NOEC, (72h), Pseudokirchneriella subcapitata, 32 mg/L



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12.2 Persistence and degradability

Behaviour in environment

not determined

compartments

Behaviour in sewage plant not determined Biological degradability not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Does not contain a relevant substance that meets the classification criteria.

12.7 Other adverse effects

Ecotoxicological data are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.

Waste no. (recommended)

160504* gases in pressure containers (including halons) containing dangerous substances

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to

ADR/RID

1950

Inland navigation (ADN)

1950

Marine transport in accordance with

IMDG

1950

Air transport in accordance with IATA 1950

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14.2 UN proper shipping name

Transport by land according to

ADR/RID

- Classification Code

5F

- Label

Aerosols

- ADR LQ

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (D)

Inland navigation (ADN)

Aerosols

- Classification Code

- Label



Marine transport in accordance with

IMDG

Aerosols (Zinc metal powder)

- EMS

F-D, S-U

- Label



- IMDG LQ

Air transport in accordance with IATA Aerosols, flammable

- Label



14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

Inland navigation (ADN)

2

Marine transport in accordance with 2.1

IMDG

Air transport in accordance with IATA 2.1

14.4 Packing group

Transport by land according to

not applicable

ADR/RID

IMDG

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

Air transport in accordance with IATA not applicable

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14.5 Environmental hazards

Transport by land according to

ADR/RID

yes

Inland navigation (ADN)

yes

Marine transport in accordance with MARINE POLLUTANT

IMDG

Air transport in accordance with IATA yes

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 **EEC-REGULATIONS**

(REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014

- Annex XIV (REACH) According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain

any substances $\geq 0.1\%$ that are subject to authorisation.

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product does not - Annex XVII (REACH)

contain any substances ≥ 0.1% that are restricted.

TRANSPORT-REGULATIONS ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK

REACH; GB CLP.

- Observe employment restrictions

for people

Observe employment restrictions for young people.

Observe employment restrictions for mothers-to-be and nursing mothers.

- VOC (2010/75/CE) 67 %

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.



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SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H412 Harmful to aquatic life with long lasting effects.

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

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

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

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H304 May be fatal if swallowed and enters airways.

H312+H332 Harmful in contact with skin or if inhaled.

H319 Causes serious eye irritation.

H225 Highly flammable liquid and vapour.

EUH066 Repeated exposure may cause skin dryness or cracking.

H336 May cause drowsiness or dizziness.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H220 Extremely flammable gas.

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

IVIS = In vitro irritation score

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading

LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value – time-weighted average TLV®STEL = Threshold limit value – short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

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16.3 Other information

Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229 Pressurised container: May burst if heated. (Bridging principle "Aerosols") STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method) Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Aquatic Acute 1: H400 Very toxic to aquatic life. (Calculation method)
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects. (Calculation

method)

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Bridging principle "Aerosols")

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)

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

(Calculation method)



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Modified position

SECTION 3 deleted: Acetone

SECTION 3 been added: Pentan-2-one oxime

SECTION 3 been added: Hydrocarbons, C9, aromatics

SECTION 3 been added: Reaction mass of ethylbenzene and xylene

SECTION 3 been added: Acetone SECTION 3 been added: n-Butyl acetate

SECTION 3 been added: Zinc powder - zinc dust (stabilized)

SECTION 2 been added: Reaction mass of ethylbenzene and xylene

SECTION 3 deleted: Xylene, mixture of isomers SECTION 3 deleted: Hydrocarbons, C9, aromatics

SECTION 3 deleted: n-Butyl acetate

SECTION 3 deleted: Zinc powder - zinc dust (stabilized) SECTION 2 been added: Hydrocarbons, C9, aromatics

SECTION 2 been added: Asp. Tox. 1
SECTION 2 been added: health hazard

SECTION 2 been added: P280 Wear protective gloves / protective clothing / eye protection /

face protection.

SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 2 been added: Skin Irrit. 2

SECTION 2 been added: H315 Causes skin irritation.

SECTION 2 been added: STOT RE 2

SECTION 2 been added: H373 May cause damage to organs through prolonged or repeated

exposure.

SECTION 2 deleted: P280 Wear eye protection.

SECTION 4 been added: In the event of symptoms seek medical treatment.

SECTION 4 been added: Rinse mouth.

SECTION 8 been added: Short term: combination filter AX-P2. (DIN EN 14387)

SECTION 8 deleted: Short term: filter apparatus, filter AX (DIN EN 14387).

SECTION 9 been added: not applicable

SECTION 9 deleted: SECTION 9 deleted:

SECTION 9 been added: not applicable SECTION 9 deleted: not applicable

SECTION 9 been added: yes

SECTION 9 been added: liquid

SECTION 9 deleted:

SECTION 10 been added: Strong bases. SECTION 10 been added: Strong acids.

SECTION 11 been added: May be fatal if swallowed and enters airways.

SECTION 11 deleted: Based on available data, the classification criteria are not met.

SECTION 11 deleted: Based on available data, the classification criteria are not met.

SECTION 11 been added: Does not contain a relevant substance that meets the classification criteria.

SECTION 11 been added: May cause damage to organs through prolonged or repeated exposure.

SECTION 12 been added: Does not contain a relevant substance that meets the classification criteria.

SECTION 16 deleted:

SECTION 16 been added: Calculation method SECTION 16 been added: Calculation method

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