

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878

Article No.: 148.0000.0
Print date: 11.05.2023
Version: 26-4

Industrial Spray
Revision date: 14.03.2023
Issue date: 14.03.2023

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

1.1. Product identifier

Article No. (manufacturer/supplier) 148.0000.0
Trade name/designation Industrial Spray
RAL kleuren

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

Relevant identified uses

Spray paint

Uses advised against

There is no information available for use is discouraged facing.

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Special Fills B V

De Veken 129

NL-1716-KG Opmeer

Telephone: +31 (0) 226 352575

Telefax: +31 (0) 226 359915

Department responsible for information:

Labor

+31 (0) 226 352575

E-mail (competent person)

info@specialfills.nl

1.4. Emergency telephone number

National Poison phone number Information

Centrum (NVIC):

0887558000

Exclusively intended for healthcare professionals in acute poisoning.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Aerosol 1 / H222

Aerosol

Extremely flammable aerosol.

Aerosol 1 / H229

Aerosol

Pressurised container: May burst if heated.

Skin Irrit. 2 / H315

Skin corrosion/irritation

Causes skin irritation.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

STOT SE 3 / H336

STOT-single exposure

May cause drowsiness or dizziness.

Aquatic Chronic 3 / H412

Hazardous to the aquatic environment

Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms



Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
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.
P261 Avoid breathing vapours.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.

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P273 Avoid release to the environment.
 P280 Wear protective gloves and eye/face protection.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P314 Get medical advice/attention if you feel unwell.
 P332 + P313 If skin irritation occurs: Get medical advice/attention.
 P337 + P313 If eye irritation persists: Get medical advice/attention.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P402 + P404 Store in a dry place. Store in a closed container.
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Hazard components for labelling

Acetone

Supplemental hazard information

not applicable

2.3. Other hazards

The mixture does not contain any "substances of very high concern" (SVHC) $\geq 0,1$ %, as published by the European Chemical Agency (ECha) according to Article 57 of Regulation (EC) No 1907/2006 (REACH).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description Aerosol
Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
204-065-8 115-10-6 603-019-00-8	01-2119472128-37-xxxx dimethyl ether Flam. Gas 1 H220 / Press. Gas	12,5 - 20
200-662-2 67-64-1 606-001-00-8	01-2119471330-49-xxxx Acetone Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	12,5 - 20
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32-xxxx Xylene Flam. Liq. 3 H226 / Acute Tox. 4 H332 / Acute Tox. 4 H312 / Skin Irrit. 2 H315 Acute toxicity estimate (ATE): ATE (dermal): 12126 mg/kg bw / ATE (inhalation, vapour): 27,50 mg/L	5 - 10
203-448-7 106-97-8 601-004-00-0	01-2119474691-32-xxxx butane Flam. Gas 1 H220 / Press. Gas	5 - 10
203-603-9 108-65-6 607-195-00-7	01-2119475791-29-XXXX 2-methoxy-1-methylethyl acetate Flam. Liq. 3 H226	5 - 10
200-827-9 74-98-6 601-003-00-5	01-2119486944-21-xxxx propane Flam. Gas 1 H220 / Press. Gas	5 - 10
200-857-2 75-28-5 601-004-00-0	01-2119475791-29-xxxx isobutane Flam. Gas 1 H220 / Press. Gas	5 - 10
201-159-0 78-93-3 606-002-00-3	01-2119457290-43 butanone Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	5 - 10
204-658-1 123-86-4 607-025-00-1	01-2119485493-29 n-butyl acetate STOT SE 3 H336 / Flam. Liq. 3 H226 / EUH066	2,5 - 5

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205-500-4 141-78-6 607-022-00-5 265-199-0 64742-95-6 649-356-00-4	01-2119475103-46 Ethyl acetate Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066 01-2119455851-35 Solvent naphtha light, aromatics Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H335 / STOT SE 3 H336 / Aquatic Chronic 2 H411 / EUH066	2,5 - 5
200-751-6 71-36-3 603-004-00-6	01-2119484630-38 butan-1-ol Flam. Liq. 3 H226 / Acute Tox. 4 H302 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / STOT SE 3 H336 Acute toxicity estimate (ATE): ATE (oral): 2292 mg/kg bw	2,5 - 5
200-661-7 67-63-0 603-117-00-0	01-2119457558-25 propan-2-ol Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	1 - 2,5

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

Self-protection of the first aider

In all cases of doubt, or when symptoms persist, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Mammalian cells (with metabolic activation)

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device.

Additional information

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Aerosol dispensers and lighters: Store in a cool dry place. Observe in addition any national regulations!

Requirements for storage rooms and vessels

Aerosol dispensers and lighters: Store in a cool dry place.

Observe in addition any national regulations! Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use, Follow the instructions for use on the label.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

dimethyl ether

Index No. 603-019-00-8 / EC No. 204-065-8 / CAS No. 115-10-6

WEL, TWA: 766 mg/m³; 400 ppm

WEL, STEL: 958 mg/m³; 500 ppm

Acetone

Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1

WEL, TWA: 1210 mg/m³; 500 ppm

WEL, STEL: 3620 mg/m³; 1500 ppm

Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

WEL, TWA: 220 mg/m³; 50 ppm

WEL, STEL: 441 mg/m³; 100 ppm

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Remark: (may be absorbed through the skin)
BMGV, TWA: 650 mmol/mol creatinine
Remark: methyl hippuric acid; urine; end of exposure or end of shift

butane

Index No. 601-004-00-0 / EC No. 203-448-7 / CAS No. 106-97-8

WEL, TWA: 1450 mg/m³; 600 ppm
WEL, STEL: 1810 mg/m³; 750 ppm

2-methoxy-1-methylethyl acetate

Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

WEL, TWA: 274 mg/m³; 50 ppm
WEL, STEL: 548 mg/m³; 100 ppm

Remark: (may be absorbed through the skin)

butanone

Index No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3

WEL, TWA: 600 mg/m³; 200 ppm
WEL, STEL: 899 mg/m³; 300 ppm

BMGV, TWA: 70 µmol/L

Remark: butan 2-one; urine; end of exposure or end of shift

Ethyl acetate

Index No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

WEL, TWA: 734 mg/m³; 200 ppm
WEL, STEL: 1468 mg/m³; 400 ppm

Solvent naphtha light, aromatics

Index No. 649-356-00-4 / EC No. 265-199-0 / CAS No. 64742-95-6

WEL, TWA: 500 mg/m³

Remark: (Aromatics)

butan-1-ol

Index No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3

WEL, STEL: 154 mg/m³; 50 ppm
Remark: (may be absorbed through the skin)

propan-2-ol

Index No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

WEL, TWA: 999 mg/m³; 400 ppm
WEL, STEL: 1250 mg/m³; 500 ppm

Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

2-methoxy-1-methylethyl acetate

Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

DNEL long-term dermal (systemic), Workers: 796 mg/kg
DNEL long-term inhalative (systemic), Workers: 275 mg/m³
DNEL long-term oral (repeated), Consumer: 36 mg/kg
DNEL long-term dermal (systemic), Consumer: 320 mg/kg
DNEL long-term inhalative (systemic), Consumer: 33 mg/m³

n-butyl acetate

Index No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

DNEL long-term dermal (systemic), Workers: 11 mg/kg
DNEL long-term inhalative (systemic), Workers: 300 mg/m³
DNEL long-term oral (repeated), Consumer: 2 mg/kg bw/day
DNEL long-term dermal (systemic), Consumer: 6 mg/kg bw/day
DNEL long-term inhalative (systemic), Consumer: 35,7 mg/m³

Xylene

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Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

DNEL long-term dermal (systemic), Workers: 180 mg/kg
DNEL acute inhalative (local), Workers: 289 mg/m³
DNEL acute inhalative (systemic), Workers: 289 mg/m³
DNEL long-term inhalative (systemic), Workers: 77 mg/m³
DNEL long-term oral (repeated), Consumer: 1,6 mg/kg
DNEL long-term dermal (systemic), Consumer: 108 mg/kg
DNEL acute inhalative (local), Consumer: 174 mg/m³
DNEL acute inhalative (systemic), Consumer: 174 mg/m³
DNEL long-term inhalative (systemic), Consumer: 14,8 mg/m³

Solvent naphtha light, aromatics

Index No. 649-356-00-4 / EC No. 265-199-0 / CAS No. 64742-95-6

DNEL long-term dermal (systemic), Workers: 25 mg/kg
DNEL long-term inhalative (systemic), Workers: 150 mg/m³
DNEL long-term oral (repeated), Consumer: 11 mg/kg
DNEL long-term dermal (systemic), Consumer:
DNEL long-term inhalative (systemic), Consumer: 32 mg/m³

propan-2-ol

Index No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

DNEL long-term dermal (systemic), Workers: 888 mg/kg
DNEL acute inhalative (systemic), Workers: 500 mg/m³
DNEL long-term oral (repeated), Consumer: 26 mg/kg
DNEL acute inhalative (systemic), Consumer: 89 mg/m³

Acetone

Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1

DNEL long-term dermal (systemic), Workers: 186 mg/kg
DNEL acute inhalative (local), Workers: 2420 mg/m³
DNEL acute inhalative (systemic), Workers: 2420 mg/m³
DNEL long-term inhalative (systemic), Workers: 1210 mg/m³
DNEL long-term oral (repeated), Consumer: 62 mg/kg bw/day
DNEL long-term dermal (systemic), Consumer: 62 mg/kg bw/day
DNEL long-term inhalative (systemic), Consumer: 200 mg/m³

butan-1-ol

Index No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3

DNEL long-term oral (repeated), Workers: 3,125 mg/kg
DNEL acute inhalative (local), Workers:
DNEL acute inhalative (systemic), Workers:
DNEL long-term dermal (systemic), Consumer: 3,125 mg/kg

butanone

Index No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3

DNEL long-term dermal (systemic), Workers: 1161 mg/kg
DNEL acute inhalative (systemic), Workers: 600 mg/m³
DNEL long-term oral (repeated), Consumer: 31 mg/kg
DNEL acute dermal, short-term (local), Consumer: 412 mg/kg
DNEL acute inhalative (systemic), Consumer:

PNEC:

2-methoxy-1-methylethyl acetate

Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

PNEC aquatic, freshwater: 0,635 mg/L
PNEC aquatic, marine water: 0,0635 mg/L
PNEC aquatic, intermittent release: 6,35 mg/L
PNEC sediment, freshwater: 0,329 mg/kg
PNEC, soil: 0,29 mg/kg
PNEC sewage treatment plant (STP): 100 mg/L

n-butyl acetate

Index No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

PNEC aquatic, freshwater: 0,18 mg/L
PNEC aquatic, marine water: 0,018 mg/L
PNEC aquatic, intermittent release: 0,36 mg/L

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PNEC sediment, freshwater: 0,981 mg/kg
PNEC sediment, marine water: 0,0981 mg/kg
PNEC, soil: 0,0903 mg/kg
PNEC sewage treatment plant (STP): 35,6 mg/L

Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

PNEC aquatic, freshwater: 0,327 mg/L
PNEC aquatic, marine water: 0,327 mg/L
PNEC aquatic, intermittent release: 0,327 mg/L
PNEC sediment, freshwater: 12,46 mg/kg
PNEC sediment, marine water: 12,46 mg/kg
PNEC, soil: 2,31 mg/kg
PNEC sewage treatment plant (STP): 6,58 mg/L

propan-2-ol

Index No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

PNEC aquatic, freshwater: 140,9 mg/L
PNEC aquatic, marine water: 140,9 mg/L
PNEC sediment, freshwater: 552 mg/kg
PNEC, soil: 28 mg/kg
PNEC sewage treatment plant (STP): 2251 mg/L
PNEC Secondary Poisoning: 160 mg/kg

Acetone

Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1

PNEC aquatic, freshwater: 10,6 mg/L
PNEC aquatic, marine water: 1,06 mg/L
PNEC aquatic, intermittent release: 21 mg/L
PNEC sediment, freshwater: 30,4 mg/kg
PNEC sediment, marine water: 3,04 mg/kg
PNEC, soil: 29,5 mg/kg
PNEC sewage treatment plant (STP): 100 mg/L

butan-1-ol

Index No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3

PNEC aquatic, freshwater: 0,082 mg/L
PNEC aquatic, marine water: 0,0082 mg/L
PNEC aquatic, intermittent release: 2,25 mg/L
PNEC sediment, freshwater: 0,178 mg/kg
PNEC sediment, marine water: 0,0178 mg/kg
PNEC, soil: 0,015 mg/kg

butanone

Index No. 606-002-00-3 / EC No. 201-159-0 / CAS No. 78-93-3

PNEC aquatic, freshwater: 55,8 mg/L
PNEC aquatic, marine water: 55,8 mg/L
PNEC aquatic, intermittent release: 55,8 mg/L
PNEC, soil: 22,5 mg/kg
PNEC sewage treatment plant (STP): 709 mg/L
PNEC Secondary Poisoning: 1000 mg/kg

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used.

Suitable respiratory protection apparatus: Respiratory protection is required for not sufficiently ventilated working places and during the spraying processing.

Hand protection is not required.

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

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Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Liquid
Colour:	refer to label
Odour:	characteristic
Odour threshold:	not applicable
Melting point/freezing point:	-95 °C Source: Acetone
Initial boiling point and boiling range:	-42 °C Source: propane
Flammability	Extremely flammable aerosol.
Lower and upper explosion limit:	
Lower explosion limit:	0,74 Vol-% Source: Solvent naphtha light, aromatics
Upper explosion limit:	32 Vol-% Source: dimethyl ether
Flash point:	-4 °C Method: DIN 53213-1
Auto-ignition temperature:	240 °C Source: dimethyl ether
Decomposition temperature:	not applicable
pH at 20 °C:	not applicable
Viscosity at 20 °C:	Aerosol
Solubility(ies):	
Water solubility at 20 °C:	partially soluble
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	1726,226 mbar
Density and/or relative density:	
Density at 20 °C:	0,75 g/cm ³ Method: EN ISO 2811-1
Relative density at 20 °C:	not applicable
Bulk density:	
Relative vapour density:	not applicable
particle characteristics:	not determined

9.2. Other information

Solid content:	11,80 weight-% / 15,65 L/kg / 11,80 Vol-% Remark: Solid contentRemark
Solvent:	
Organic solvents:	88 weight-%
aromatic hydrocarbons:	4 weight-%
Water:	0 weight-%
Drop point/drop range:	
Pour point:	0 °C
Sustaining combustion:	Sustaining combustion: Yes, positive.

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Explosive properties:	not applicable
Oxidising properties:	not applicable
Burning time:	not applicable
Evaporation rate:	not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available. No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

not applicable

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides. Thermal decomposition can lead to the escape of irritating gases and vapours. Hazardous decomposition byproducts may form with exposure to high temperatures.

SECTION 11: Toxicological information

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

Acute toxicity, calculated:

ATEmix, oral: > 5000 mg/kg

ATEmix, dermal: > 5000 mg/kg

ATEmix, inhalative (vapours): > 20 mg/L

Acute toxicity

2-methoxy-1-methylethyl acetate

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rat: > 2000 mg/kg

inhalative (vapours), LC0, Rat: > 4345 ppm (6 h)

n-butyl acetate

oral, LD50, Rat: 10760 mg/kg

Method: OECD 423

dermal, LD50, Rabbit: 14112 mg/kg

Method: OECD 402

inhalative (dust and mist), LC50, Rat (4 h)

Method: OECD 403

Xylene

oral, LD50, Rat: 3523 mg/kg

dermal, LD50, Rabbit: 12126 mg/kg

inhalative (vapours), LC50, Rat: 27,5 mg/L (4 h)

Ethyl acetate

oral, LD50, Rat: > 2000 mg/kg

dermal, LD50, Rabbit: > 2000 mg/kg

inhalative (vapours), LC50, Rat: 58 mg/L (4 h)

Solvent naphtha light, aromatics

oral, LD50, Rat 2000 - 5000 mg/kg

Method: OECD 401

dermal, LD50, Rat

Method: OECD 402

inhalative (vapours), LC50, Rat: > 6193 mg/L (4 h)

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Method: OECD 403
propan-2-ol
oral, LD50, Rat: 5840 mg/kg
dermal, LD50, Rabbit: 13900 mg/kg
inhalative (vapours), LC50, Rabbit: 30 mg/L (6 h)

Acetone
oral, LD50, Rat: 5800 mg/kg
dermal, LD50, Rat: > 15800 mg/kg
dermal, LD50, Rabbit: > 2000 mg/kg
inhalative (vapours), LC50, Rat: 76 mg/L (4 h)
oral, NOAEL(C):, Rat: 900 mg/kg bw/day (90 D)
inhalative (vapours), NOAEC, Rat: 22500 mg/m³

butan-1-ol
oral, LD50, Rat: 2292 mg/kg
Method: OECD 401
dermal, LD50, Rabbit: 3430 mg/kg
Method: OECD 402
inhalative (vapours), LC50, Rat: > 17,76 mg/L (4 h)

butanone
oral, LD50, Rat: > 2193 mg/kg
dermal, LD50, Rabbit: > 5000 mg/kg
inhalative (vapours), LC50, Rat: 34,5 mg/L (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye irritation.

n-butyl acetate
Skin, Rabbit
Method: OECD 404
eyes, Rabbit
Method: OECD 405

butan-1-ol
Skin, Rabbit (4 h)
eyes, Rabbit

butanone
eyes, Rabbit
Method: OECD 405

Respiratory or skin sensitisation

n-butyl acetate
Skin, Guinea pig:
Method: OECD 406

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

STOT-single exposure; STOT-repeated exposure

May cause drowsiness or dizziness.

n-butyl acetate
Specific target organ toxicity (single exposure), drowsiness

Solvent naphtha light, aromatics
Specific target organ toxicity (single exposure), Irritation
Specific target organ toxicity (single exposure), drowsiness

Acetone
Specific target organ toxicity (single exposure), drowsiness Evaluation May cause drowsiness or dizziness.

butanone
Specific target organ toxicity (single exposure), drowsiness

Aspiration hazard

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Solvent naphtha light, aromatics
Aspiration hazard

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
Do not allow to enter into surface water or drains.

12.1. Toxicity

2-methoxy-1-methylethyl acetate

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 134 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 500 mg/L (48 h)
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1000 mg/L (72 h)
Method: OECD 201

n-butyl acetate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 18 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 44 mg/L (48 h)
Method: EC50
Algae toxicity, ErC50, Desmodesmus subspicatus: 674,7 mg/L (72 h)
Method: EC50

Xylene

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2,6 mg/L 0 - 8,4 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1 mg/L 0 - 2,9 mg/L (48 h)
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 2,2 mg/L 0 - 4,9 mg/L (72 h)

Ethyl acetate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): > 230 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 610 mg/L (48 h)
Algae toxicity, ErC50, Desmodesmus subspicatus: 5600 mg/L (48 h)
Bacteria toxicity, EC10, Pseudomonas putida: 2900 mg/L (16 h)

Solvent naphtha light, aromatics

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 9,22 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 6,14 mg/L (48 h)
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 2,9 mg/L 0 - 2,9 mg/L (72 h)

propan-2-ol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 9840 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 9714 mg/L (48 h)
Algae toxicity, ErC50, Desmodesmus subspicatus: > 1000 mg/L (72 h)

Acetone

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 5540 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia pulex (water flea): 8800 mg/L (48 h)

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Algae toxicity, ErC50, Algae: 100 mg/L (96 h)
Bacteria toxicity, Activated sludge: 1000 mg/L (30 m); Evaluation Toxicity to microorganisms
Method: OECD 209

butan-1-ol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 1376 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1328 mg/L (48 h)
Method: OECD 202
Algae toxicity, ErC50, Selenastrum capricornutum: 225 mg/L (96 h)
Method: OECD 201
Bacteria toxicity, EC50: > 1000 mg/L
Method: DIN 38412 / part 27

butanone

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 2993 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 308 mg/L (48 h)
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 2029 mg/L (96 h)

Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

2-methoxy-1-methylethyl acetate

Fish toxicity, NOEC, Oryzias latipes (Ricefish): 47,5 mg/L (14 D)
Method: OECD 204
Daphnia toxicity, NOEC, Daphnia magna (Big water flea): > 100 mg/L (21 D)
Method: OECD 202

12.2. Persistence and degradability

n-butyl acetate

, OECD 301D/ EEC 92/69/V, C.4-E: 0 (28 aerobic.); Evaluation Readily biodegradable (according to OECD criteria).
Method: OECD 301D/ EEC 92/69/V, C.4-E

Ethyl acetate

, OECD 301D/ EEC 92/69/V, C.4-E: 79 % (28 D); Evaluation Readily biodegradable (according to OECD criteria).

Solvent naphtha light, aromatics

Biodegradation: 78 % (28 D); Evaluation Readily biodegradable (according to OECD criteria).

Acetone

, Biodegradation: 91 % (28 D); Evaluation Readily biodegradable (according to OECD criteria).
Method: OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C
Chemical oxygen demand (COD): 2100 mg/g
Biochemical oxygen demand: 1900 mg/g (5 D)

12.3. Bioaccumulative potential

n-butyl acetate

Partition coefficient: n-octanol/water:
Method: OECD 117

Acetone

Partition coefficient: n-octanol/water: -0,24

Bioconcentration factor (BCF)

Acetone

Bioconcentration factor (BCF): < 0 ; Evaluation No indication of bioaccumulation potential.

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Control report for waste code/ waste marking according to EAKV:

150110* packaging containing residues of or contaminated by dangerous substances

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1. UN number or ID number

UN 1950

14.2. UN proper shipping name

Land transport (ADR/RID): Aerosols, flammable
Sea transport (IMDG): AEROSOLS
Air transport (ICAO-TI / IATA-DGR): Aerosols, flammable

14.3. Transport hazard class(es)

2.1

14.4. Packing group

not applicable

14.5. Environmental hazards

Land transport (ADR/RID) not applicable
Marine pollutant not applicable

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

Tunnel restriction code D

Sea transport (IMDG)

EmS-No. F-D, S-U

UN Test L.2: Sustained combustibility test:

Sustaining combustion: Yes, positive.

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

EU legislation

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

Category: P3a FLAMMABLE AEROSOLS

Quantity 1: 150 t / Quantity 2: 500 t

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 665

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

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15.2. Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
204-065-8 115-10-6	dimethyl ether	01-2119472128-37-xxxx
200-662-2 67-64-1	Acetone	01-2119471330-49-xxxx
215-535-7 1330-20-7	Xylene	01-2119488216-32-xxxx
203-448-7 106-97-8	butane	01-2119474691-32-xxxx
203-603-9 108-65-6	2-methoxy-1-methylethyl acetate	01-2119475791-29-XXXX
200-827-9 74-98-6	propane	01-2119486944-21-xxxx
200-857-2 75-28-5	isobutane	01-2119475791-29-xxxx
201-159-0 78-93-3	butanone	01-2119457290-43
204-658-1 123-86-4	n-butyl acetate	01-2119485493-29
205-500-4 141-78-6	Ethyl acetate	01-2119475103-46
265-199-0 64742-95-6	Solvent naphtha light, aromatics	01-2119455851-35
200-751-6 71-36-3	butan-1-ol	01-2119484630-38
200-661-7 67-63-0	propan-2-ol	01-2119457558-25

SECTION 16: Other information

Full text of classification in section 3:

Flam. Gas 1 / H220	flammable gases	Extremely flammable gas.
Press. Gas	Gases under pressure	
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Aerosol 1	Aerosol	On basis of test data.
Aerosol 1	Aerosol	On basis of test data.
Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.
Aquatic Chronic 3	Hazardous to the aquatic environment	Calculation method.

Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section

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1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations.The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.