

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

JANSEN 

Article No.: I-1-3-9MW-5-1 Straßen Markierungsfarbe
Print date 11.01.2023 Revision date 08.09.2022
Version 35.73 Issue date 08.09.2022

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

1.1. Product identifier

Article No. (manufacturer/supplier): I-1-3-9MW-5-1
Trade name/designation Straßen Markierungsfarbe
weiß
mit BAST-Zulassung
UFI: C6DF-3J4E-AG05-311S

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

Relevant identified uses:

Varnish / paint

Uses advised against:

Aware of any other information

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

P.A. Jansen GmbH u. Co., KG
Hochstadenstraße 22 Telephone: +49 2641 3897-0
D-53474 Bad Neuenahr-Ahrweiler Telefax: +49 2641 3897-28
Homepage: www.jansen.de

Department responsible for information:

laboratory
E-mail (competent person) sicherheitsdatenblatt@jansen.de

1.4. Emergency telephone number

Emergency telephone number +49 2641 3897-51
Only available during office hours.

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].

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.

2.2. Label elements

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

Hazard pictograms



Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves and eye/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.
P370 + P378 In case of fire: Use extinguishing powder or sand to extinguish.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard components for labelling

Acetone

Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description Road marking paint based on synthetic polymers

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

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
200-662-2 67-64-1	01-2119471330-49 Acetone	12,5 - 15
606-001-00-8 204-658-1 123-86-4	Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066 01-2119485493-29 n-butyl acetate	8 - 10
607-025-00-1 236-675-5 13463-67-7 022-006-00-2	Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066 01-2119489379-17 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] Carc. 2 H351	7 - 8
205-500-4 141-78-6 607-022-00-5	01-2119475103-46 Ethyl acetate Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	2,5 - 3

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.

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

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

4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

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

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. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Further information

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). 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.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

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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

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

Index No. 022-006-00-2 / EC No. 236-675-5 / CAS No. 13463-67-7

WEL, TWA: 4 mg/m³
Remark: (respirable fraction)

WEL, TWA: 10 mg/m³
Remark: (inhalable fraction)

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

Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

Ethyl acetate

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

DNEL long-term dermal (systemic), Workers: 63 mg/kg
DNEL acute inhalative (local), Workers: 1468 mg/m³
DNEL acute inhalative (systemic), Workers: 1468 mg/m³
DNEL long-term inhalative (local), Workers: 734 mg/m³
DNEL long-term inhalative (systemic), Workers: 734 mg/m³
DNEL long-term oral (repeated), Consumer: 4,5 mg/kg
DNEL long-term dermal (systemic), Consumer: 37 mg/kg
DNEL acute inhalative (local), Consumer: 734 mg/m³
DNEL acute inhalative (systemic), Consumer: 734 mg/m³
DNEL long-term inhalative (local), Consumer: 367 mg/m³
DNEL long-term inhalative (systemic), Consumer: 367 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: 1210 mg/m³
DNEL long-term inhalative (systemic), Workers: 1210 mg/m³
DNEL long-term oral (repeated), Consumer: 62 mg/kg
DNEL long-term dermal (systemic), Consumer: 62 mg/kg
DNEL long-term inhalative (systemic), Consumer: 200 mg/m³

n-butyl acetate

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

DNEL acute dermal, short-term (systemic), Workers: 11 mg/kg
DNEL long-term dermal (systemic), Workers: 11 mg/kg
DNEL acute inhalative (local), Workers: 600 mg/m³
DNEL acute inhalative (systemic), Workers: 600 mg/m³
DNEL long-term inhalative (local), Workers: 300 mg/m³
DNEL long-term inhalative (systemic), Workers: 300 mg/m³
DNEL short-term oral (acute), Consumer: 2 mg/kg
DNEL long-term oral (repeated), Consumer: 2 mg/kg
DNEL acute dermal, short-term (systemic), Consumer: 6 mg/kg
DNEL long-term dermal (systemic), Consumer: 6 mg/kg
DNEL acute inhalative (local), Consumer: 300 mg/m³
DNEL acute inhalative (systemic), Consumer: 300 mg/m³
DNEL long-term inhalative (local), Consumer: 35,7 mg/m³
DNEL long-term inhalative (systemic), Consumer: 35,7 mg/m³

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titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]

Index No. 022-006-00-2 / EC No. 236-675-5 / CAS No. 13463-67-7

DNEL long-term inhalative (local), Workers: 10 mg/m³

DNEL long-term oral (repeated), Consumer: 700 mg/kg

PNEC:

Ethyl acetate

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

PNEC aquatic, freshwater: 0,24 mg/L

PNEC aquatic, marine water: 0,024 mg/L

PNEC aquatic, intermittent release: 1,65 mg/L

PNEC sediment, freshwater: 1,15 mg/kg

PNEC sediment, marine water: 0,115 mg/kg

PNEC, soil: 0,148 mg/kg

PNEC sewage treatment plant (STP): 650 mg/L

PNEC Secondary Poisoning: 200 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

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

PNEC sediment, freshwater: 0,981 mg/kg

PNEC sediment, marine water: 0,0981 mg/kg

PNEC, soil: 0,093 mg/kg

PNEC sewage treatment plant (STP): 35,6 mg/L

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]

Index No. 022-006-00-2 / EC No. 236-675-5 / CAS No. 13463-67-7

PNEC aquatic, freshwater: 0,184 mg/L

PNEC aquatic, marine water: 0,0184 mg/L

PNEC aquatic, intermittent release: 0,193 mg/L

PNEC sediment, freshwater: 1000 mg/kg

PNEC sediment, marine water: 100 mg/kg

PNEC, soil: 100 mg/kg

PNEC sewage treatment plant (STP): 100 mg/L

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. Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits as specified by the manufacturer. Recommended respiratory protection articles: Inadequately ventilated workplaces and spraying procedures are necessary. Fresh air mask or short-time work combination filter A2-P2 are recommended.

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

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

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Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

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
Colour:	white
Odour:	characteristic
Odour threshold:	No data available
Melting point/freezing point:	-95 °C Source: Acetone
Initial boiling point and boiling range:	56 °C Source: Acetone
Flammability:	Highly flammable liquid and vapour.
Lower and upper explosion limit:	
Lower explosion limit:	1,2 Vol-% Method: literature value Source: n-butyl acetate
Upper explosion limit:	14,3 Vol-% Method: literature value
Flash point:	16 °C Method: EN ISO 1523
Auto-ignition temperature:	370 °C
Decomposition temperature:	No data available
pH at 20 °C:	No data available
Cinematic viscosity (40°C):	> 20,5 mm²/s
Viscosity at 20 °C:	38 s 6 mm Method: DIN 53211
Solubility(ies):	
Water solubility at 20 °C:	partially soluble
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	240 mbar
Density and/or relative density:	
Density at 20 °C:	1,57 g/cm³ Method: DIN 53217
Relative vapour density:	No data available
particle characteristics:	not applicable

9.2. Other information

Solid content:	76 weight-%
solvent content:	
Organic solvents:	24 weight-%
Water:	0 weight-%

SECTION 10: Stability and reactivity

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10.1. Reactivity

No information available.

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

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.

SECTION 11: Toxicological information

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

Acute toxicity

Ethyl acetate

oral, LD50, Rat: 4934 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 2000 mg/kg

inhalative (vapours), LC50, Rat: 29,3 mg/L (4 h)

inhalative (vapours), LC50, Rat: 22,5 mg/L (6 h)

Acetone

oral, LD50, Rat: 5800 mg/kg

Method: OECD 401

dermal, LD50, Rat: > 15800 mg/kg

inhalative (vapours), LC50, Rat: 76 mg/L (4 h)

n-butyl acetate

oral, LD50, Rat: 10760 mg/kg

Method: OECD 423

dermal, LD50, Rabbit: 14112 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: > 21 mg/L (4 h)

Method: OECD 403

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 425

dermal, LD50, Rabbit: > 2000 mg/kg

inhalative (dust and mist), LC50, Rat 3,43 - 5,09 mg/L (4 h)

Method: OECD 403

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes serious eye irritation.

Ethyl acetate

eyes

irritant.

Acetone

Skin (4 h)

eyes, Rabbit.

Method: OECD 405

Irritating to eyes.

n-butyl acetate

Skin (4 h)

Method: OECD 404

slightly irritant

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eyes, Rabbit
Method: OECD 405
slightly irritant

Respiratory or skin sensitisation

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

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.

Ethyl acetate

Specific target organ toxicity (single exposure), drowsiness

Acetone

Specific target organ toxicity (single exposure)

Specific target organ toxicity (single exposure), drowsiness

n-butyl acetate

Specific target organ toxicity (single exposure), drowsiness

Aspiration hazard

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

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 .

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]

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

12.1. Toxicity

Ethyl acetate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 230 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: 165 mg/L (48 h)

Bacteria toxicity, EC10, Pseudomonas putida: 2900 mg/L (16 h)

Algae toxicity, EC50, Desmodesmus subspicatus: 5600 mg/L (72 h)

Acetone

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 5540 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 100 mg/L (48 h)

Algae toxicity, ErC50, Selenastrum capricornutum: 7500 mg/L (96 h)

n-butyl acetate

Fish toxicity, LC50, Pimephales promelas: 18 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 44 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50, Desmodesmus subspicatus: 397 mg/L (72 h)

Method: OECD 201

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Cell proliferation inhibition test
Bacteria toxicity, EC50: 356 mg/L (40 h)
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 100 mg/L (96 h)
Daphnia toxicity, LC50, Daphnia magna: > 100 mg/L (48 h)
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 16 mg/L (72 h)

Long-term Ecotoxicity

Ethyl acetate
Fish toxicity, NOEC, Pimephales promelas (fathead minnow): > 9,65 mg/L (32 d)
Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 2,4 mg/L (21 d)
Method: OECD 211
Algae toxicity, NOEC, Desmodesmus subspicatus: > 100 mg/L (72 h)
Method: OECD 201
Bacteria toxicity, NOEC, Pseudomonas putida: 650 mg/L (16 h)

Acetone
Daphnia toxicity, NOEC: 2212 mg/L (28 d)

n-butyl acetate
Daphnia toxicity, NOEC, Daphnia magna: 23 mg/L (21 d)
Method: OECD 211
Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 105 mg/L (72 h)

12.2. Persistence and degradability

Ethyl acetate
Biodegradation: > 70 % (20 d); Evaluation Readily biodegradable (according to OECD criteria)
Method: OECD 301D / EEC 92/69 annex V, C.4-E

Acetone
Biodegradation, Degree of elimination:: 91 % (28 d); Evaluation Readily biodegradable (according to OECD criteria)
Method: OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C

n-butyl acetate
Biodegradation: 83 % (28 d); Evaluation Readily biodegradable (according to OECD criteria)
Method: OECD 301D/ EEC 92/69/V, C.4-E

12.3. Bioaccumulative potential

Ethyl acetate
Partition coefficient: n-octanol/water: 0,68

Acetone
Partition coefficient n-octanol /water (log P O/W):: -0,24

n-butyl acetate
Partition coefficient n-octanol /water (log P O/W):: 2,3
Method: OECD 117

Bioconcentration factor (BCF)

Ethyl acetate
Bioconcentration factor (BCF): 30

Acetone
Bioconcentration factor (BCF): 3

n-butyl acetate
Bioconcentration factor (BCF): 15,3

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]
Bioconcentration factor (BCF), Oncorhynchus mykiss (Rainbow trout): 19 - 352

12.4. Mobility in soil

n-butyl acetate
Surface tension:: 61,3 mN/m
Method: OECD 115

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.

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12.7. **Other adverse effects**
No information available.

SECTION 13: Disposal considerations

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. Dispose of waste according to applicable legislation.

List of proposed waste codes/waste designations in accordance with EWC

080111* Waste paint and varnish containing organic solvents or other 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 1263

14.2. UN proper shipping name

Land transport (ADR/RID): Paint
Sea transport (IMDG): PAINT
Air transport (ICAO-TI / IATA-DGR): Paint

14.3. Transport hazard class(es)

3

14.4. Packing group

Land transport (ADR/RID): III
for packages > 450 litres: II
Sea transport (IMDG): III
for packages > 450 litres: II
Air transport (ICAO-TI / IATA-DGR): III
for packages > 30 litres: II

14.5. Environmental hazards

Land transport (ADR/RID) No data available
Marine pollutant No data available

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 E
for packages > 450 litres: D/E

Sea transport (IMDG)

EmS-No. F-E, S-E

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]

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



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Category: P5c FLAMMABLE LIQUIDS
Quantity 1: 5000 t / Quantity 2: 50000 t

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).

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.
200-662-2 67-64-1	Acetone	01-2119471330-49
204-658-1 123-86-4	n-butyl acetate	01-2119485493-29
236-675-5 13463-67-7	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]	01-2119489379-17
205-500-4 141-78-6	Ethyl acetate	01-2119475103-46

SECTION 16: Other information

Full text of classification in section 3:

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.
Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer if inhaled.

Classification procedure

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

Flam. Liq. 2	Flammable liquids	On basis of test data.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations

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VOC Volatile Organic Compounds
vPvB very persistent and very bioaccumulative

Data sources

Data arise from reference works and literature.

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 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.