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

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

1.1. Product identifier

Article No. (manufacturer/supplier):	28-310
Trade name/designation	Sprint 5 Isolierspray weiß matt UFI: 44EF-NJQS-PG0K-CSFG

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

Relevant identified uses:
Primer

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].

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.
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.
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.
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.
P271	Use only outdoors or in a well-ventilated area.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

Hazard components for labelling

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane

Supplemental hazard information

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

2.3. **Other hazards**

Without adequate ventilation, explosive atmosphere/gas mix may be created. Do not use in confined spaces. Only use the product for the intended purpose.

SECTION 3: Composition/information on ingredients

3.2. **Mixtures**

Description

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 Dimethyl ether compressed gas H280 / Flam. Gas 1 H220	35 - 50
921-024-6	01-2119475514-35 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane Skin Irrit. 2 H315 / STOT SE 3 H336 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411 / Flam. Liq. 2 H225	15 - 20
200-662-2 67-64-1 606-001-00-8	01-2119471330-49 Acetone Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	5 - 7
204-658-1 123-86-4 607-025-00-1	01-2119485493-29 n-butyl acetate Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066	3 - 5
236-675-5 13463-67-7 022-006-00-2	01-2119489379-17 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] Carc. 2 H351	3 - 5
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	1 - 1,5

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.

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

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

Protect from heat and direct sunlight.Ensure good ventilation / exhaustion at the workplace. Observe the exposure limits.Use only in well-ventilated areas.Ensure good interior ventilation, especially at floor level (vapors are heavier than air).

Further information
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50 °C. Do not open with force, even when empty.

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. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on joint storage
Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions
Protect from heat and direct sunlight. Take care of instructions on label.

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

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

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

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane
EC No. 921-024-6
DNEL long-term dermal (systemic), Workers: 300 mg/kg
DNEL long-term inhalative (systemic), Workers: 2085 mg/m³
DNEL long-term oral (repeated), Consumer: 149 mg/kg
DNEL long-term dermal (systemic), Consumer: 149 mg/kg
DNEL long-term inhalative (systemic), Consumer: 447 mg/m³

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
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 ≤ 10 µm]
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. Observe the weartime 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.

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:	**gaseous**
Colour:	**white**
Odour:	**characteristic**
Odour threshold:	**No data available**
Melting point/freezing point:	**-142 °C** Source: Dimethyl ether
Initial boiling point and boiling range:	**-25 °C** Source: Dimethyl ether
Flammability:	**Extremely flammable aerosol.**
Lower and upper explosion limit:	
Lower explosion limit:	**0,6 Vol-%** Method: literature value Source: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane
Upper explosion limit:	**24,4 Vol-%** Method: literature value Source: Dimethyl ether
Flash point:	**-42 °C** Method: EN ISO 1523
Ignition temperature in °C:	**201 °C** Source: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane
Decomposition temperature:	**No data available**
pH at 20 °C:	**No data available**
Viscosity at °C:	**gasförmig**
Solubility(ies):	
Water solubility at 20 °C:	**insoluble**
Partition coefficient: n-octanol/water:	**see section 12**
Vapour pressure at 20 °C:	**240 mbar** Source: Acetone

Density and/or relative density:

Density at 20 °C:	**No data available**
Relative vapour density:	**No data available**
particle characteristics:	**not applicable**

9.2. **Other information**

SECTION 10: Stability and reactivity

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

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane
oral, LD50, Rat: > 5000 mg/kg
dermal, LD50, Rat: > 2000 mg/kg

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 skin 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
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.

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
Cell proliferation inhibition test
Bacteria toxicity, EC50: 356 mg/L (40 h)

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane
Fish toxicity, NOELR 1 - 10 mg/L
Daphnia toxicity, NOELR 1 - 10 mg/L
Algae toxicity, NOELR 10 - 100 mg/L

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

Harmful to aquatic life with long lasting effects.

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)

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane
Fish toxicity, NOEC 1 - 10 mg/L
Daphnia toxicity, NOEC 0,1 - 1 mg/L

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

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane
Biodegradation: Evaluation Readily biodegradable (according to OECD criteria)

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

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane
Partition coefficient n-octanol /water (log P O/W):: 3,4 - 5,2

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 ≤ 10 µm]
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.

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

160504*	Gases in pressure containers (including halons) containing hazardous substances
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**

No data available

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 D

Sea transport (IMDG)

EmS-No. F-D, S-U

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

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.
204-065-8 115-10-6	Dimethyl ether	01-2119472128-37
921-024-6	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane	01-2119475514-35
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 ≤ 10 µm]	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:

compressed gas / H280	Gases under pressure	Contains gas under pressure; may explode if heated.
Flam. Gas 1 / H220	flammable gases	Extremely flammable gas.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
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]

Aerosol 1	Aerosol	On basis of test data.
Aerosol 1	Aerosol	On basis of test data.
Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.

Aquatic Chronic 3	Hazardous to the aquatic environment	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
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.