

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. PRODUCT IDENTIFIER**

Product name : WCP-2 Aerosol
Product form : Mixture
Vaporizer : Aerosol

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category : Industrial use
Use of the substance/mixture : White contrast paint used in Magnetic Particle Inspection (MPI).

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet**Manufacturer**

Magnaflux® (A Division of ITW Ltd)
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T +44 (0)1793 524566 - F +44 (0)1793 490459
support.eu@magnaflux.com - www.eu.magnaflux.com

Distributor

Magnaflux GmbH
Bahnhofstraße 94-98, 73457 Essingen, Germany
T +49 (0)7365 81-0

1.4. Emergency telephone number

Emergency number : DURING OFFICE HOURS, CALL T: +44 (0)1793 524566 (English only) [Office hours (GMT) Monday - Thursday 8am - 5pm, Friday 8am - 4pm];
OUT OF OFFICE HOURS, CALL T: +44(0)203 394 9866

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Aerosol 1 H222;H229
Eye Irrit. 2 H319
STOT SE 3 H336

Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) :

Danger

Contains :

Acetone

Hazard statements (CLP) :

H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
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 dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
EUH-statements : 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.

Unknown acute toxicity (CLP) - SDS : 39.9% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
 50.85% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
 0.2% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

Unknown hazards to the aquatic environment (CLP) : Contains 0.32 % of components with unknown hazards to the aquatic environment

2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetone substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8 REACH-no.: 01-2119471330-49-XXXX	30 – 40	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
n-Butane substance with national workplace exposure limit(s) (IE) (Note C)(Note U)	CAS-No.: 106-97-8 EC-No.: 203-448-7 EC Index-No.: 601-004-00-0 REACH-no.: 01-2119474691-32	10 – 20	Flam. Gas 1, H220 Press. Gas (Liq.), H280
Propane substance with national workplace exposure limit(s) (IE) (Note U)	CAS-No.: 74-98-6 EC-No.: 200-827-9 EC Index-No.: 601-003-00-5 REACH-no.: 01-2119486944-21	5 – 15	Flam. Gas 1, H220 Press. Gas (Liq.), H280
Titanium Dioxide substance with national workplace exposure limit(s) (IE)	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2 REACH-no.: 01-2119489379-17-XXXX	5 – 10	Not classified.
Propylene glycol monomethyl ether substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 107-98-2 EC-No.: 203-539-1 EC Index-No.: 603-064-00-3 REACH-no.: 01-2119457435-35-XXXX	3 – 7	Flam. Liq. 3, H226 STOT SE 3, H336
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	CAS-No.: 68515-48-0 EC-No.: 271-090-9	1 – 2	Aquatic Acute 1, H400

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note U (Table 3): When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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

- Symptoms/effects after inhalation : May cause irritation to the respiratory tract. May cause drowsiness or dizziness.
- Symptoms/effects after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
- Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide. Foam. Dry chemical.
- Unsuitable extinguishing media : Do not use water jet.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Extremely flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon. Toxic fumes. smokes. Soot.
- Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

5.3. Advice for firefighters

- Firefighting instructions : Evacuate area. Move containers away from the fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.
- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate every possible source of ignition. Use special care to avoid static electric charges. Use only non-sparking tools.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Stop leak if safe to do so. Remove all sources of ignition. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
- Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage
7.1. Precautions for safe handling

Additional hazards when processed	: Hazardous waste due to potential risk of explosion. Do not pierce or burn, even after use. Keep away from sources of ignition - No smoking.
Precautions for safe handling	: Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. When using do not eat, drink or smoke. Do not spray on an open flame or other ignition source. Use non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Handle and open container with care.
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Keep out of the reach of children. Store locked up. Keep in fireproof place. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store away from direct sunlight or other heat sources. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatibles. Keep container tightly closed and dry.
Incompatible materials	: Heat sources.
Storage temperature	: 10 – 30 °C

7.3. Specific end use(s)

White contrast paint used in Magnetic Particle Inspection (MPI).

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
8.1.1. National occupational exposure and biological limit values

Acetone (67-64-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	1210 mg/m ³
IOEL TWA [ppm]	500 ppm
Ireland - Occupational Exposure Limits	
OEL TWA [1]	1210 mg/m ³
OEL TWA [2]	500 ppm
OEL STEL	3630 mg/m ³ (calculated)
OEL STEL [ppm]	1500 ppm (calculated)
n-Butane (106-97-8)	
Ireland - Occupational Exposure Limits	
OEL TWA [2]	1000 ppm (Aliphatic hydrocarbon gases - Alkanes (C1-C4))
OEL STEL [ppm]	3000 ppm (calculated)
Propane (74-98-6)	
Ireland - Occupational Exposure Limits	
OEL STEL [ppm]	3000 ppm (calculated (Aliphatic hydrocarbon gases - Alkanes (C1-C4)))
OEL chemical category	Simple asphyxiant
Titanium Dioxide (13463-67-7)	
Ireland - Occupational Exposure Limits	
OEL TWA [1]	10 mg/m ³ (total inhalable dust) 4 mg/m ³ (respirable dust)
OEL STEL	30 mg/m ³ (calculated-respirable dust) 12 mg/m ³ (calculated)
Propylene glycol monomethyl ether (107-98-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	375 mg/m ³
IOEL TWA [ppm]	100 ppm

IOEL STEL	568 mg/m ³
IOEL STEL [ppm]	150 ppm
Remark	Possibility of significant uptake through the skin
Ireland - Occupational Exposure Limits	
OEL TWA [1]	375 mg/m ³
OEL TWA [2]	100 ppm
OEL STEL	568 mg/m ³
OEL STEL [ppm]	150 ppm

2-Butanol (78-92-2)

Ireland - Occupational Exposure Limits

OEL TWA [1]	300 mg/m ³
OEL TWA [2]	100 ppm
OEL STEL	450 mg/m ³
OEL STEL [ppm]	150 ppm

Methacrylic acid (79-41-4)

Ireland - Occupational Exposure Limits

OEL TWA [1]	70 mg/m ³
OEL TWA [2]	20 ppm
OEL STEL	140 mg/m ³
OEL STEL [ppm]	40 ppm

8.1.2. Recommended monitoring procedures

Monitoring methods

Monitoring methods	Consult the relevant monitoring standards for the region.
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8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Additional information : Not applicable

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Safety eyewear complying with an approved standard such as the European Standard EN166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear chemically resistant protective gloves.
Butyl rubber gloves. Layer thickness : 0.7 mm
Breakthrough time >480 minutes

8.2.2.3. Respiratory protection

Respiratory protection:

If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. It is recommended to wear a respirator fitted with the following cartridge: Combination filter, type AX/P2, complying to European standard EN371.

8.2.2.4. Thermal hazards
Thermal hazard protection:

Use personal protective equipment as required.

8.2.3. Environmental exposure controls
Environmental exposure controls:

Avoid release to the environment.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical state	: Liquid Aerosol
Colour	: White.
Odour	: Solvent - Alcohol.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: 56 °C
Flammability	: Extremely flammable aerosol.
Explosive properties	: Pressurised container: May burst if heated.
Explosive limits	: Not available
Lower explosive limit (LEL)	: 2 vol %
Upper explosive limit (UEL)	: 13 vol %
Flash point	: - 40 °C
Auto-ignition temperature	: > 200 °C
Decomposition temperature	: Not available
pH	: Neutral (1% solution)
Viscosity, kinematic	: < 20 mm ² /s (20 °C)
Solubility	: 70 %
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water	: -0.24 (20 °C) (Acetone)
Vapour pressure	: 185 mm Hg (20 °C)
Vapour pressure at 50 °C	: Not available
Density	: 0.73 g/mL
Relative density	: Not available
Relative vapour density at 20 °C	: > 1
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

Acetone (67-64-1)

Boiling point	56.05 °C
Flash point	-17 °C
Auto-ignition temperature	465 °C
Vapour pressure	233 hPa (at 20 °C)

n-Butane (106-97-8)

Boiling point	-0.5 °C
Flash point	-60 °C
Auto-ignition temperature	287 °C
Vapour pressure	2200 hPa (at 20 °C)

Propane (74-98-6)	
Boiling point	-42.1 °C (at 1 atm)
Flash point	< -56 °C (closed cup)
Auto-ignition temperature	450 °C
Vapour pressure	600 – 39000 hPa (at 20 °C)

Titanium Dioxide (13463-67-7)	
Boiling point	2500 – 3000 °C

Propylene glycol monomethyl ether (107-98-2)	
Boiling point	120.17 °C Atm. press.: 101325 Pa Decomposition: 'no'
Flash point	31.1 °C Atm. press.: 101,3 hPa
Auto-ignition temperature	287 °C (at 1013 hPa)
Vapour pressure	11.5 hPa (at 20 °C)

1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich (68515-48-0)	
Boiling point	341 °C Atm. press.: 1013 hPa
Flash point	236 °C Atm. press.: 101,7 kPa
Vapour pressure	0.00006 Pa Temp.: 20 °C

9.2. Other information

9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : 84.8199999999997

9.2.2. Other safety characteristics

Relative evaporation rate (butyl acetate=1) : 8

Bulk density : 0.93 g/mL

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions. Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Incompatible materials. Sparks. Open flame. Direct sunlight. Avoid contact with hot surfaces. Sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents. Acids. Alkalis.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Toxic fumes. smokes. soot.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified.

Acetone (67-64-1)	
LD50 oral rat	5800 mg/kg bodyweight Animal: rat, Animal sex: female
LD50 dermal rabbit	> 15700 mg/kg
LC50 inhalation rat	76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4

n-Butane (106-97-8)	
LC50 inhalation rat	658 g/m ³ (Exposure time: 4 h)

Propane (74-98-6)	
LC50 inhalation rat	> 800000 ppm (Exposure time: 15 min)

Titanium Dioxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LC50 inhalation rat	5.09 mg/l/4h
Propylene glycol monomethyl ether (107-98-2)	
LD50 oral rat	5000 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LD50 dermal rabbit	13 g/kg
LC50 inhalation rat	> 7559 ppm (Exposure time: 6 h)
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich (68515-48-0)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat	> 4.4 mg/l/4h
Unknown acute toxicity (CLP) - SDS	: 39.9% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 50.85% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 0.2% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))
Skin corrosion/irritation	: Not classified. pH: Neutral (1% solution)
Additional information	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Causes serious eye irritation. pH: Neutral (1% solution)
Respiratory or skin sensitisation	: Not classified.
Additional information	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Not classified.
Additional information	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Not classified.
Additional information	: Based on available data, the classification criteria are not met.
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich (68515-48-0)	
NOAEL (chronic, oral, animal/male, 2 years)	88.3 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OTS 798.3300 (Carcinogenicity), Remarks on results: other:
NOAEL (chronic, oral, animal/female, 2 years)	108.6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OTS 798.3300 (Carcinogenicity), Remarks on results: other:
Reproductive toxicity	: Not classified.
Additional information	: Based on available data, the classification criteria are not met.
Acetone (67-64-1)	
LOAEL (animal/female, F0/P)	11298 mg/kg bodyweight Animal: mouse, Animal sex: female
NOAEL (animal/male, F0/P)	900 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other: Generation not specified (migrated information)
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich (68515-48-0)	
NOAEL (animal/female, F1)	200 – 260 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:, Guideline: EPA OTS 798.4700 (Reproduction and Fertility Effects)
STOT-single exposure	: May cause drowsiness or dizziness.
Acetone (67-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.
Propylene glycol monomethyl ether (107-98-2)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified.
Additional information	: Based on available data, the classification criteria are not met.
Propylene glycol monomethyl ether (107-98-2)	
LOAEL (oral, rat, 90 days)	2757 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
NOAEL (oral, rat, 90 days)	919 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
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1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich (68515-48-0)	
NOAEL (dermal, rat/rabbit, 90 days)	≈ 500 mg/kg bodyweight Animal: rabbit

Aspiration hazard : Not classified.
 Additional information : Based on available data, the classification criteria are not met.

WCP-2 Aerosol	
Vaporizer	aerosol
Viscosity, kinematic	< 20 mm ² /s (20 C)

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

11.2.2. Other information

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.
 Unknown hazards to the aquatic environment (CLP) : Contains 0.32 % of components with unknown hazards to the aquatic environment
 Hazardous to the aquatic environment, short-term (acute) : Not classified.
 Hazardous to the aquatic environment, long-term (chronic) : Not classified.

Acetone (67-64-1)	
LC50 - Fish [1]	4.74 – 6.33 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
LC50 - Fish [2]	6210 – 8120 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	10294 – 17704 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Crustacea [2]	12600 – 12700 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LOEC (chronic)	> 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Titanium Dioxide (13463-67-7)	
LC50 - Fish [1]	155 mg/l Test organisms (species): other:Japanese Medaka
EC50 - Crustacea [1]	19.3 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	27.8 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	> 100 mg/l Test organisms (species):
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Propylene glycol monomethyl ether (107-98-2)	
LC50 - Fish [1]	20.8 g/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	23300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Other aquatic organisms [1]	2954 mg/l Test organisms (species): other aquatic crustacea:Acartia tonsa

1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich (68515-48-0)	
LC50 - Fish [1]	0.42 mg/l (Exposure time: 96 h - Species: Ictalurus punctatus [flow-through])
LC50 - Fish [2]	> 0.16 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 - Crustacea [1]	> 0.086 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	> 88 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	> 2.8 mg/l (Species: Pseudokirchneriella subcapitata)

12.2. Persistence and degradability

WCP-2 Aerosol	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

WCP-2 Aerosol	
Partition coefficient n-octanol/water	-0.24 (20 c) (Acetone)
Bioaccumulative potential	Not established.
Acetone (67-64-1)	
BCF - Fish [1]	0.69
Partition coefficient n-octanol/water	-0.24
n-Butane (106-97-8)	
Partition coefficient n-octanol/water	2.89
Propane (74-98-6)	
Partition coefficient n-octanol/water	2.3
Propylene glycol monomethyl ether (107-98-2)	
BCF - Fish [1]	< 2
Partition coefficient n-octanol/water	-0.437

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

PBT	: A PBT assessment has not yet been carried out under REACH for the constituents. However, there are no indications that this product contains substances likely to be classified as PBT.
vPvB	: A vPvB assessment has not yet been carried out under REACH for the constituents. However, there are no indications that this product contains substances likely to be classified as vPvB.

12.6. Endocrine disrupting properties

Endocrine disrupting properties	: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
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12.7. Other adverse effects

Additional information	: No other effects known
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. The generation of waste should be avoided or minimized wherever possible.
Additional information	: Flammable vapours may accumulate in the container. Pressurized container: Do not pierce or burn, even after use.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR)	: UN 1950
UN-No. (IMDG)	: UN 1950
UN-No. (IATA)	: UN 1950
UN-No. (ADN)	: UN 1950
UN-No. (RID)	: UN 1950

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: AEROSOLS
Proper Shipping Name (IMDG)	: AEROSOLS
Proper Shipping Name (IATA)	: Aerosols, flammable
Proper Shipping Name (ADN)	: AEROSOLS
Proper Shipping Name (RID)	: AEROSOLS

14.3. Transport hazard class(es)**ADR**

Transport hazard class(es) (ADR) : 2.1
Danger labels (ADR) : 2.1

**IMDG**

Transport hazard class(es) (IMDG) : 2.1
Danger labels (IMDG) : 2.1

**IATA**

Transport hazard class(es) (IATA) : 2.1
Danger labels (IATA) : 2.1

**ADN**

Transport hazard class(es) (ADN) : 2.1
Danger labels (ADN) : 2.1

**RID**

Transport hazard class(es) (RID) : 2.1
Danger labels (RID) : 2.1

**14.4. Packing group**

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no REACH candidate substance. $\geq 0,1\%$ / SCL

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Not determined

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information**Indication of changes:**

None.

Abbreviations and acronyms

°C – Degrees Celsius
°F – Degrees Fahrenheit
ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.
ACGIH – American Conference of Governmental Industrial Hygienists
ATE – Acute Toxicity Estimate
BCF – Bioconcentration Factor
BEI – Biological Exposure Index
CAS – Chemical Abstracts Service
CLP – Regulation (EC) No 1272/2008 on the Classification, Labeling and Packaging of substances and mixtures.
CMR – Carcinogen, Mutagen, Reproductive toxin
cP – centipoise (unit of dynamic viscosity)
cSt – centistokes (unit of kinematic viscosity)
DNEL – Derived No-effect Level
DMEL – Derived Minimal Effect Level
EC50 – Half maximal effective concentration
ECHA – European Chemicals Agency
EC-No. – European Community number
EU – European Union

GHS – Globally Harmonized System of Classification and Labelling of Chemicals
 h – Hours
 IATA – International Air Transport Association
 IC50 – Inhibition concentration
 IDLH – Immediately Dangerous to Life or Health
 IMDG – International Maritime Dangerous Goods
 IOELV – Indicative Occupational Exposure Limit Value
 KIFS – Swedish Chemicals Agency's (KemI's) Code of Statutes
 kPa – kilopascal
 Koc – Adsorption Coefficient
 Kow – Octanol-Water Partition Coefficient
 LC50 – Median Lethal Concentration
 LD50 – Median Lethal Dose
 LOAEL – Lowest Observed Adverse Effect level
 mg/l – Milligram per liter
 mg/kg – Milligram per kilogram
 mg/m³ – Milligram per cubic meter
 Min – Minutes
 NIOSH – National Institute for Occupational Safety and Health
 NOEC – No Observed Effect Concentration
 NO(A)EL – No Observed (Adverse) Effect Level
 N.O.S. – Not Otherwise Specified
 OEL – Occupational Exposure Limit
 PBT - Persistent, Bioaccumulative and Toxic
 PCN – Poison Centre Notification
 PNEC – Predicted No Effect Concentration
 ppm – Parts per million
 PVC – Polyvinyl chloride
 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
 RID – European Agreement concerning the International Carriage of Dangerous Goods by Rail
 SDS – Safety Data Sheet
 STEL – Short Term Exposure Limit
 STOT – Specific Target Organ Toxicity
 SVHC – Substance of Very High Concern (CMR, vPvB, PBT)
 TDI – Tolerable Daily Intake
 TLV – Threshold Limit Value
 TWA – Time Weighted Average
 UFI – Unique Formulation Identifier
 UN – United Nations
 vPvB - Very Persistent and Very Bioaccumulative
 WEL – Workplace Exposure Limit
 WGK – Wassergefährdungskategorie – German water quality classification

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

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Full text of H- and EUH-statements

Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Aerosol 1	H222;H229	Expert judgment
Eye Irrit. 2	H319	Calculation method
STOT SE 3	H336	Calculation method

Safety Data Sheet (SDS), EU - Nexreg Annex II 2021_Magnaflux

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