



UK YELLOW LINE MARKING SPRAY

Safety Data Sheet

according to 1907/2006/EC, Article 31, as amended by UK REACH Regulation SI 2019/758
SDS Reference Number: 002107
Issue date: 7/7/2024 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : UK YELLOW LINE MARKING SPRAY
Type of product : Aerosol

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Industrial/Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

A.M.P.E.R.E. UK Ltd
Kings Court – 17 School Road
GB – B28 8JG Birmingham / UNITED KINGDOM
Tel. +44 (0) 121 244 1809
Fax +44 (0) 121 244 1831
fds@amperesystem.com

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service		0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol, Category 1 H222;H229
Acute toxicity (oral), Category 4 H302
Acute toxicity (dermal), Category 4 H312
Acute toxicity (inhal.), Category 4 H332
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Specific target organ toxicity – Single exposure, Category 3, H336
Narcosis
Repeated exposure may cause skin dryness or cracking. EUH066
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: Methyl acetate; Acetone; Trimethylbenzene; Ethyl acetate; Resin

Hazard statements (CLP)

: H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP)

: 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/sparks/open flames/hot surfaces. – No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Pressurized container: Do not pierce or burn, even after use.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents / container in accordance with regional regulations.
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..

EUH-statements

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

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 substance(s) are 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 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
DME	CAS-No.: 115-10-6 EC-No.: 204-065-8 EC Index-No.: 603-019-00-8	27 – 35	Flam. Gas 1, H220
Ethyl acetate	CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5	15 – 19	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
Resin	CAS-No.: 8050-09-7 EC-No.: 232-475-7 EC Index-No.: 650-015-00-7	13 – 19	Skin Sens. 1, H317

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Pigment (Yellow)	CAS-No.: 5468-75-7 EC-No.: 226-789-3	8 – 13	Not classified
Acetone	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8	7 – 11	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
Exxon solvent s-100	CAS-No.: 25551-13-7 EC-No.: 247-099-9	7 – 10	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Calcium carbonate	CAS-No.: 19569-21-2	6 – 9	Not classified
Methyl acetate	CAS-No.: 79-20-9 EC-No.: 201-185-2 EC Index-No.: 607-021-00-X	4 – 7	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
Distillates (petroleum), hydrotreated light	CAS-No.: 64742-47-8 EC-No.: 265-149-8 EC Index-No.: 649-422-00-2	2 – 4	Asp. Tox. 1, H304

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 general	: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
First-aid measures after inhalation	: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
First-aid measures after skin contact	: Immediately wash with water and soap and rinse thoroughly.
First-aid measures after eye contact	: With eye held open, thoroughly rinse immediately with plenty of water.
First-aid measures after ingestion	: Drink plenty of water. Allow affected person to breathe fresh air. Immediately call a POISON CENTER/doctor.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Fight larger fires with water spray or foam. Dry chemical. Carbon dioxide.
Unsuitable extinguishing media	: Water with full jet.

5.2. Special hazards arising from the substance or mixture

No additional information available

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5.3. Advice for firefighters

Protection during firefighting : Mouth respiratory protective device.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Keep unprotected persons away.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

Protective equipment : Wear personal protective equipment.

6.2. Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Do not flush with water or aqueous cleansing agents. See section 13 for waste disposal.
Ensure adequate ventilation.

6.4. Reference to other sections

Consult the safety measures listed under headings 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate general and local exhaust ventilation. Open and handle receptacle with care. Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.

Hygiene measures : Keep away from foodstuffs, beverages and food/feed. Immediately remove all soiled and contaminated clothing. Wash hands before break and at end of works. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Requirements to be met by storerooms and receptacles : Store in a cool location. Observe official regulations on storing packagings with pressurized containers. Information about storage in one common storage facility : Do not seal receptacle gas tight. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. Storage category : 2B.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Methyl acetate (79-20-9)	
United Kingdom - Occupational Exposure Limits	
Local name	Methyl acetate
WEL TWA (OEL TWA)	616 mg/m ³

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Methyl acetate (79-20-9)	
	200 ppm
WEL STEL (OEL STEL)	770 mg/m ³
	250 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Acetone (67-64-1)	
United Kingdom - Occupational Exposure Limits	
Local name	Acetone
WEL TWA (OEL TWA)	1210 mg/m ³
	500 ppm
WEL STEL (OEL STEL)	3620 mg/m ³
	1500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Exxon solvent s-100 (25551-13-7)	
United Kingdom - Occupational Exposure Limits	
Local name	Trimethylbenzene
WEL TWA (OEL TWA)	125 mg/m ³ all isomers or mixtures
	25 ppm all isomers or mixtures
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Ethyl acetate (141-78-6)	
United Kingdom - Occupational Exposure Limits	
Local name	Ethyl acetate
WEL TWA (OEL TWA)	734 mg/m ³
	200 ppm
WEL STEL (OEL STEL)	1468 mg/m ³
	400 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
DME (115-10-6)	
United Kingdom - Occupational Exposure Limits	
Local name	DME
WEL TWA (OEL TWA)	766 mg/m ³
	400 ppm
WEL STEL (OEL STEL)	958 mg/m ³
	500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Resin (8050-09-7)	
United Kingdom - Occupational Exposure Limits	
Local name	Resin-based solder flux fume
WEL TWA (OEL TWA)	0.05 mg/m ³

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Resin (8050-09-7)

WEL STEL (OEL STEL)	0.15 mg/m ³
Remark	Sen (Capable of causing occupational asthma)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Methyl acetate (79-20-9)

DNEL/DMEL (Workers)

Acute - systemic effects, inhalation	3777 mg/m ³
Long-term - systemic effects, dermal	43 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	300 mg/m ³
Long-term - local effects, inhalation	620 mg/m ³

DNEL/DMEL (General population)

Acute - systemic effects, dermal	203 mg/kg bodyweight/day
Acute - systemic effects, inhalation	3777 mg/m ³
Acute - systemic effects, oral	203 mg/kg bodyweight/day
Long-term - systemic effects, oral	21.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	64 mg/m ³
Long-term - systemic effects, dermal	21.5 mg/kg bodyweight/day
Long-term - local effects, inhalation	133 mg/m ³

Acetone (67-64-1)

DNEL/DMEL (Workers)

Acute - local effects, inhalation	2420 mg/m ³
Long-term - systemic effects, dermal	186 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1210 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	62 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	200 mg/m ³
Long-term - systemic effects, dermal	62 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	10.6 mg/l
PNEC aqua (marine water)	1.06 mg/l
PNEC aqua (intermittent, freshwater)	21 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	30.4 mg/kg dwt
PNEC sediment (marine water)	3.04 mg/kg dwt

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Acetone (67-64-1)	
PNEC (Soil)	
PNEC soil	29.5 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
Ethyl acetate (141-78-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	1468 mg/m ³
Acute - local effects, inhalation	1468 mg/m ³
Long-term - systemic effects, dermal	63 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	734 mg/m ³
Long-term - local effects, inhalation	734 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	734 mg/m ³
Acute - local effects, inhalation	734 mg/m ³
Long-term - systemic effects, oral	4.5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	367 mg/m ³
Long-term - systemic effects, dermal	37 mg/kg bodyweight/day
Long-term - local effects, inhalation	367 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.24 mg/l
PNEC aqua (marine water)	0.024 mg/l
PNEC aqua (intermittent, freshwater)	1.65 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.15 mg/kg dwt
PNEC sediment (marine water)	0.115 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.148 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	0.2 g/kg food
PNEC (STP)	
PNEC sewage treatment plant	650 mg/l
Pigment (Yellow) (5468-75-7)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	3 mg/m ³
Acute - local effects, inhalation	3 mg/m ³
Long-term - systemic effects, inhalation	3 mg/m ³
Long-term - local effects, inhalation	3 mg/m ³

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Pigment (Yellow) (5468-75-7)	
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	3 mg/m ³
DME (115-10-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	1894 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	471 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.155 mg/l
PNEC aqua (marine water)	0.016 mg/l
PNEC aqua (intermittent, freshwater)	1.549 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.681 mg/kg dwt
PNEC sediment (marine water)	0.069 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.045 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	160 mg/l
Resin (8050-09-7)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	2.131 mg/kg bodyweight/day
Long-term - local effects, inhalation	10 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	1.0655 mg/kg bodyweight/day
Long-term - systemic effects, dermal	1.0655 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.0016 mg/l
PNEC aqua (marine water)	0.00016 mg/l
PNEC aqua (intermittent, freshwater)	0.016 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.007 mg/kg dwt
PNEC sediment (marine water)	0.0007 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.00045 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1000 mg/l

8.1.5. Control banding

No additional information available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side shields

8.2.2.2. Skin protection

Hand protection:

Wear gloves according to EN374 resistant to the solvent(s) in use. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Butyl rubber	6 (> 480 minutes) - Acetone, 4 (> 120 minutes) - Ethyl acetate	0.4		EN 374

8.2.2.3. Respiratory protection

Respiratory protection:

Not necessary if room is well-ventilated. Otherwise: Respirator with P2 filter, Self contained breathing apparatus

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Gas
Colour	: Not available
Appearance	: Aerosol.
Odour	: Solvent.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: < -20 °C
Boiling point	: > 60 °C
Flammability (solid, gas)	: Extremely flammable aerosol
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: -40 °C
Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: Not available
pH	: Not applicable
Viscosity, kinematic	: Not applicable
Solubility	: Not water soluble. Re-dispersible in aromatic solve ketones.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not applicable
Relative density	: 0.93 – 0.95 g/cm3
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

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9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Harmful in contact with skin.
Acute toxicity (inhalation) : Harmful if inhaled.

Distillates (petroleum), hydrotreated light (64742-47-8)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.1175 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.28 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 0,42 -
Methyl acetate (79-20-9)	
LD50 oral rat	6482 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Acetone (67-64-1)	
LD50 oral rat	5800 mg/kg bodyweight Animal: rat, Animal sex: female
LC50 Inhalation - Rat	76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4

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Ethyl acetate (141-78-6)	
LD50 oral	4934 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 20000 mg/kg bodyweight Animal: rabbit, Animal sex: male
Pigment (Yellow) (5468-75-7)	
LD50 oral rat	> 10000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 3000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 4.25 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
DME (115-10-6)	
LC50 Inhalation - Rat [ppm]	164000 ppm Animal: rat, Animal sex: male, 95% CL: 142000 - 203000
Resin (8050-09-7)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Distillates (petroleum), hydrotreated light (64742-47-8)	
NOAEL (animal/male, F0/P)	≥ 3000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]
Methyl acetate (79-20-9)	
LOAEL (animal/male, F0/P)	1000 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: other:
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
STOT-single exposure	: May cause drowsiness or dizziness.
Methyl acetate (79-20-9)	
STOT-single exposure	May cause drowsiness or dizziness.
Acetone (67-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.
Ethyl acetate (141-78-6)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Distillates (petroleum), hydrotreated light (64742-47-8)	
NOAEL (oral, rat, 90 days)	750 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	≥ 495 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

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Ethyl acetate (141-78-6)	
LOAEL (oral, rat, 90 days)	3600 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
Pigment (Yellow) (5468-75-7)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard : Not applicable

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by 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 substance(s) are 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 at a concentration equal to or greater than 0,1 %

11.2.2. Other information

Potential adverse human health effects and symptoms : May be narcotic if inhaled

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Methyl acetate (79-20-9)	
LC50 - Fish [1]	250 – 350 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	1026.7 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 120 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Acetone (67-64-1)	
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'

Ethyl acetate (141-78-6)	
LC50 - Fish [1]	230 mg/l Test organisms (species): Pimephales promelas
NOEC (chronic)	2.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Pigment (Yellow) (5468-75-7)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

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DME (115-10-6)

LC50 - Fish [1]	> 4.1 g/l Test organisms (species): <i>Poecilia reticulata</i>
EC50 - Crustacea [1]	> 4.4 g/l Test organisms (species): <i>Daphnia magna</i>
EC50 96h - Algae [1]	154.917 mg/l Test organisms (species): other:

Resin (8050-09-7)

LC50 - Fish [1]	5.4 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i>)
LC50 - Fish [2]	5.4 mg/l Test organisms (species):

12.2. Persistence and degradability

Acetone (67-64-1)

Persistence	- Water / Soil : Low - Air : High.
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Additional information	Supplier information : Fish LC50 (96hr.) (mg/l): 8300- 40000 Daphnia magna EC50 (48hr.) (mg/l): 10 log Kow (Prager 1995): - 0.24 log Kow (Sangster 1997): - 0.24 log Pow (Verschuereen 1983): - 0.24 Half- life Soil - High (hours): 168 Half- life Soil - Low (hours): 24 Half- life Air - High (hours): 2790 Half- life Air - Low (hours): 279 Half- life Surface water - High (hours): 168 Half- life Surface water - Low (hours): 24 Half- life Ground water - High (hours): 336 Half- life Ground water - Low (hours): 48 Aqueous biodegradation - Aerobic - High (hours): 168 Aqueous biodegradation - Aerobic - Low (hours): 24 Aqueous biodegradation - Anaerobic - High (hours): 672 Aqueous biodegradation - Anaerobic - Low (hours): 96 Aqueous biodegradation - Removal secondary treatment - High (hours): 75% Aqueous biodegradation - Removal secondary treatment - Low (hours): 54% Aqueous photolysis half- life - High (hours): 270 Photooxidation half- life water - High (hours): 3.97E+06 Photooxidation half- life water - Low (hours): 9.92E+04 Photooxidation half- life air - High (hours): 2790 Photooxidation half- life air - Low (hours): 279 For Acetone: Log Kow : -0.24; Half-life (hr) air : 312-1896; Half-life (hr) H2O surface water : 20; Henry's atm m3 /mol : 3.67E-05 BOD 5: 0.31-1.76,46-55% COD: 1.12-2.07 ThOD: 2.2BCF: 0.69. Environmental Fate: The relatively long half-life allows acetone to be transported long distances from its emission source. Atmospheric Fate: Acetone preferentially locates in the air compartment when released to the environment. In air, acetone is lost by photolysis and reaction with photochemically produced hydroxyl radicals; the estimated half-life of these combined processes is about 22 days. Air Quality Standards: none available. Terrestrial Fate: Very little acetone is expected to reside in soil, biota, or suspended solids and has low propensity for soil absorption and a high preference for moving through the soil and into the ground water. Acetone released to soil volatilizes although some may leach into the ground where it rapidly biodegrades. Soil Guidelines: none available. Aquatic Fate: A substantial amount of acetone can also be found in water. Acetone is highly soluble and slightly persistent in water, with a half-life of about 20 hours Drinking Water Standard: none available. Ecotoxicity: Acetone does not concentrate in the food chain, is minimally toxic to aquatic life and is considered to be readily biodegradable. Testing shows that acetone exhibits a low order of toxicity for brook trout, fathead minnow, Japanese quail, ring-neck pheasant and water fleas. Low toxicity for aquatic invertebrates. For aquatic plants, NOEC: 5400-7500 mg/L. Acetone vapours were shown to be relatively toxic to flour beetle and flour moths and their eggs. The direct application of acetone liquid to the body of the insects or surface of the eggs did not, however, cause any mortality. The ability of acetone to inhibit cell multiplication has been examined in a wide variety of microorganisms. Mild to moderate toxicity occurred in bacteria exposed to acetone for 6-4 days however, overall data indicates a low degree of toxicity for acetone. The only exception to these findings was the results obtained with the flagellated protozoa (Entosiphon sulcatum). For Ketones: Ketones, unless they are alpha, beta--unsaturated ketones, can be considered as narcosis or baseline toxicity compounds. Aquatic Fate: Hydrolysis of ketones in water is thermodynamically favourable only for low
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Acetone (67-64-1)	
	molecular weight ketones. Reactions with water are reversible with no permanent change in the structure of the ketone substrate. Ketones are stable to water under ambient environmental conditions. When pH levels are greater than 10, condensation reactions can occur which produce higher molecular weight products. Under ambient conditions of temperature, pH, and low concentration, these condensation reactions are unfavourable. Based on its reactions in air, it seems likely that ketones undergo photolysis in water. Terrestrial Fate: It is probable that ketones will be biodegraded by micro-organisms in soil and water. Ecotoxicity: Ketones are unlikely to bioconcentrate or biomagnify.
Ethyl acetate (141-78-6)	
Persistence	Water, Soil : Low - Air : High.
Additional information	Supplier information : log Pow (Verschuereen 1983): 0.66/0.73 ThOD: 50.4 log Pow (Verschuereen 1983): 0.66/0.73 BOD5: 15% COD: 1.54 (83%) ThOD: 1.82 Half- life Soil - High (hours): 168 Half- life Soil - Low (hours): 24 Half- life Air - High (hours): 353 Half- life Air - Low (hours): 35.3 Half- life Surface water - High (hours): 168 Half- life Surface water - Low (hours): 24 Half- life Ground water - High (hours): 336 Half- life Ground water - Low (hours): 48 Aqueous biodegradation - Aerobic - High (hours): 168 Aqueous biodegradation - Aerobic - Low (hours): 24 Aqueous biodegradation - Anaerobic - High (hours): 672 Aqueous biodegradation - Anaerobic - Low (hours): 96 Aqueous biodegradation - Removal secondary treatment - High (hours): 96% Aqueous biodegradation - Removal secondary treatment - Low (hours): 99.90% Photooxidation half- life water - High (hours): 9.60E+05 Photooxidation half- life water - Low (hours): 24090 Photooxidation half- life air - High (hours): 353 Photooxidation half- life air - Low (hours): 35.3 First order hydrolysis half- life (hours): 1.77E+04 Acid rate constant [M(H+)- HR]- 1: 3.05E- 08 Base rate constant [MOH)- HR]- 1: 2.99E- 05 DO NOT discharge into sewer or waterways. log Kow: 0.66-0.73 Half-life (hr) air: 200 Half-life (hr) H2O surface water: 10 Henry's atm m³ /mol: 1.20E-04 BOD 5 if unstated: 0.1-1.24, 16-36% COD: 1.54,83% ThOD: 1.82
DME (115-10-6)	
Persistence	Water, Soil : Low - Air : Not available.

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DME (115-10-6)

Additional information

Supplier information :
Water solubility (g/l): 35300
log Kow (Sangster 1997): 0.1
Most ethers are very resistant to hydrolysis, and the rate of cleavage of the carbon-oxygen bond by abiotic processes is expected to be insignificant. Direct photolysis will not be an important removal process since aliphatic ethers do not absorb light at wavelengths >290 nm. DO NOT discharge into sewer or waterways.
log Kow: 0.1-0.12
Koc: 14
Half-life (hr) air: 528
Half-life (hr) H₂O surface water: 2.6-30
Henry's atm m³ /mol: 9.78E-04
BCF: 1.7
processes Abiotic: RxnOH*

12.3. Bioaccumulative potential

Acetone (67-64-1)

Bioaccumulation

Low.

Ethyl acetate (141-78-6)

Bioaccumulation

Low.

DME (115-10-6)

Bioaccumulation

Low.

12.4. Mobility in soil

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Mobility in soil

Very slow.

Additional information

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Acetone (67-64-1)

Mobility

High.

Ethyl acetate (141-78-6)

Mobility

High.

DME (115-10-6)

Mobility

High.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by 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 substance(s) are 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 at a concentration equal to or greater than 0,1 %.

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12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Do not dispose of with domestic waste. Do not allow product to reach sewage system.
European List of Waste (LoW, EC 2000/532)	: 08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances 15 01 04 - metallic packaging 15 01 11* - metallic packaging containing a dangerous solid porous matrix (e.g. asbestos), including empty pressure containers

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
Transport document description (ADR) (ADR)	: UN 1950 AEROSOLS, 2.1, (D)
Transport document description (IMDG)	: UN 1950 AEROSOLS, 2.1
Transport document description (IATA)	: UN 1950 Aerosols, flammable, 2.1
Transport document description (ADN)	: UN 1950 AEROSOLS, 2.1
Transport document description (RID)	: UN 1950 AEROSOLS, 2.1

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

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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
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U
Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 5F
Special provisions (ADR) : 190, 327, 344, 625
Limited quantities (ADR) : 1I
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P207, LP200
Special packing provisions (ADR) : PP87, RR6, L2
Mixed packing provisions (ADR) : MP9
Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR) : V14
Special provisions for carriage - Loading, unloading and handling (ADR) : CV9, CV12
Special provisions for carriage - Operation (ADR) : S2
Tunnel restriction code (ADR) : D

Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959
Limited quantities (IMDG) : SP277
Excepted quantities (IMDG) : E0
Packing instructions (IMDG) : P207, LP200
Special packing provisions (IMDG) : PP87, L2
Stowage category (IMDG) : None
Stowage and handling (IMDG) : SW1, SW22

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Segregation (IMDG) : SG69

Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 203
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg
Special provisions (IATA) : A145, A167, A802
ERG code (IATA) : 10L

Inland waterway transport

Classification code (ADN) : 5F
Special provisions (ADN) : 190, 327, 344, 625
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E0
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01, VE04
Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : 5F
Special provisions (RID) : 190, 327, 344, 625
Limited quantities (RID) : 1L
Excepted quantities (RID) : E0
Packing instructions (RID) : P207, LP200
Special packing provisions (RID) : PP87, RR6, L2
Mixed packing provisions (RID) : MP9
Transport category (RID) : 2
Special provisions for carriage – Packages (RID) : W14
Special provisions for carriage - Loading, unloading and handling (RID) : CW9, CW12
Colis express (express parcels) (RID) : CE2
Hazard identification number (RID) : 23

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

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

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Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS-No.	Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Acetone	67-64-1	2914 11 00	ex 3824 99 92

Drug Precursors Regulation (EC 273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Name	CN designation	CAS-No.	CN code	Category, Subcategory	Threshold	Annex
Acetone		67-64-1	2914 11 00	Category 3		Annex I

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Asp. Tox. 1	Aspiration 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
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
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.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

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Full text of H- and EUH-statements:	
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.

Safety Data Sheet (SDS), EU

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