

Safety data sheet

according to 1907/2006/EC, Article 31 & 2020/878/EC

Printing date 07.04.2025

Version number 1

Revision: 07.04.2025

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

· 1.1 Product identifier

- Trade name: **Transparent**
- UFI: 4U3C-NKQ4-K002-0E0T

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

- Sector of Use SU21 Consumer uses: Private households / general public / consumers
- Application of the substance / the preparation : Coating compound/ Surface coating/ paint

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

VDM-Reya

Adresse : 201 Avenue Irène et Frédéric Joliot Curie

83130 LA GARDE FRANCE

Téléphone : +33 (0)4 94 08 68 20

contact@vdm-reya.com

· 1.4 Emergency telephone number:

France (INRS 24h/24) - Tel : +33 (0)1 45 42 59 59

Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel: 112

Belgium - Brüssel: +32 070/245 245

UK : Call NHS 999 in a medical emergency. If you urgently need medical help or advice but it's not a life-threatening situation, call 111 (24/7). The NHS 111 number is currently only available in certain areas. If you're outside of these areas, you should call NHS Direct on 0845 4647

Swiss Toxicological Information Centre (Zürich) : +41 44 251 51 51 / www.toxi.ch.

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008 :



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

Skin Irrit. 2 H315

Causes skin irritation.

Eye Irrit. 2 H319

Causes serious eye irritation.

STOT SE 3 H336

May cause drowsiness or dizziness.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the C.L.P. regulation.

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· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Acetone
BUTYL ACETATE
butan-1-ol
propan-2-ol

· **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.

· **Additional information:**

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

· **2.3 Other hazards**

The mixture shall not contain substances listed in accordance with Article 59(1) R.E.A.C.H as having endocrine disrupting properties, or be recognised 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 in a concentration equal to or greater than 0.1%.

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

· **Determination of endocrine-disrupting properties** No further information available

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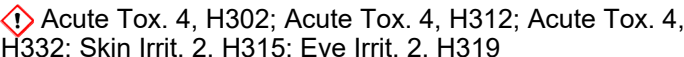
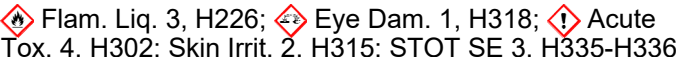
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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Preparation: composed of the substances listed below.

Dangerous components:

CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 RTECS: AL 3150000 Reg.nr.: 01-2119471330-49-xxxx	Acetone 	≥30-<40%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 RTECS: TX 2275000 Reg.nr.: 01-2119486944-21	PROPANE 	≥15-<20%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 RTECS: AF 7350000 Reg.nr.: 01-2119485493-29-xxxx	BUTYL ACETATE 	≥7-<10%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 RTECS: EJ 4200000 Reg.nr.: 01-2119474691-32	Butane (< 0,1 % 1,3- butadiene) 	≥5-<7%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0 RTECS: KJ 8575000 Reg.nr.: 01-2119475108-36	2-butoxyethanol  ATE: LD50 oral: 1,200 mg/kg LC50/4 h inhalative: 3 mg/l	≥3-<5%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 RTECS: ZE 2100000 Reg.nr.: 01-2119488216-35	xylene 	≥3-<5%
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 RTECS: EO 1400000 Reg.nr.: 01-2119484630-38-xxxx	butan-1-ol 	≥2.5-<3%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 RTECS: TZ 4300000 Reg.nr.: 01-2119485395-27	Isobutane 	≥2.5-<3%

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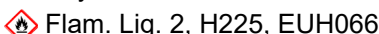
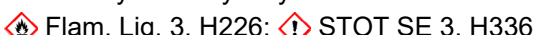
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CAS: 67-63-0	propan-2-ol	≥1-<2.5%
EINECS: 200-661-7		
Index number: 603-117-00-0		
RTECS: NT 8050000		
Reg.nr.: 01-2119457558-25-xxxx		
CAS: 110-19-0	Isobutyl Acetate	≥1-<2.5%
EINECS: 203-745-1		
Index number: 607-026-00-7		
Reg.nr.: 01-2119488971-22		
CAS: 13463-67-7	Titanium Dioxide	≥1-<2.5%
EINECS: 236-675-5		
Index number: 022-006-00-2		
Reg.nr.: 01-2119913301-55-XXXX		
01-2119489379-17-0000		
CAS: 141-78-6	Ethyl acetate	≥0.5-<1%
EINECS: 205-500-4		
Index number: 607-022-00-5		
RTECS: AH 5425000		
Reg.nr.: 1-2119475103-46-xxxx		
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	≥0.25-<0.3%
EINECS: 203-603-9		
Index number: 607-195-00-7		
Reg.nr.: 01-2119475791-29		

· **SVHC** Not applicable

· **Additional information:** For the wording of the listed risk phrases, refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **After inhalation:** Provide fresh air; consult a doctor in case of medical complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** Do not induce vomiting; call for medical help immediately.

· 4.2 Most important symptoms and effects, both acute and delayed :

No further relevant information is available.

· 4.3 Indication of any immediate medical attention and special treatment needed :

No further relevant information is available.

SECTION 5: Firefighting measures

· **5.1 Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

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- **5.2 Special hazards arising from the substance or mixture** : No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment**: No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** :
Wear protective equipment. Keep unprotected persons away.
- **For non-emergency personnel** No other relevant information available.
- **For emergency responders** No other relevant information available.
- **6.2 Environmental precautions**:
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow the product to enter sewers/ surface water or ground water.
- **6.3 Methods and material for containment and cleaning up**:
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections** :
See Section 7 for information on safe handling.
See Section 8 for information on personal protective equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** :
Keep receptacles tightly sealed.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about fire - and explosion protection**:



Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **7.3 Specific end use(s) :** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

CAS: 67-64-1 Acetone (25-<50%)

WEL (Great Britain) Short-term value: 3620 mg/m³, 1500 ppm
Long-term value: 1210 mg/m³, 500 ppm
IOELV (EU) Long-term value: 1210 mg/m³, 500 ppm
MAK (Switzerland) Short-term value: 2400 mg/m³, 1000 ppm
Long-term value: 1200 mg/m³, 500 ppm
B;

CAS: 74-98-6 PROPANE (10-25%)

MAK (Switzerland) Short-term value: 7200 mg/m³, 4000 ppm
Long-term value: 1800 mg/m³, 1000 ppm

CAS: 123-86-4 BUTYL ACETATE (5-<10%)

WEL (Great Britain) Short-term value: 966 mg/m³, 200 ppm
Long-term value: 724 mg/m³, 150 ppm
IOELV (EU) Short-term value: 723 mg/m³, 150 ppm
Long-term value: 241 mg/m³, 50 ppm
MAK (Switzerland) Short-term value: 720 mg/m³, 150 ppm
Long-term value: 240 mg/m³, 50 ppm
SSc;

CAS: 106-97-8 Butane (< 0,1 % 1,3- butadiene) (5-<10%)

WEL (Great Britain) Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm
Carc (if more than 0.1% of buta-1.3-diene)
MAK (Switzerland) Short-term value: 7600 mg/m³, 3200 ppm
Long-term value: 1900 mg/m³, 800 ppm

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CAS: 111-76-2 2-butoxyethanol (<5%)

WEL (Great Britain) Short-term value: 246 mg/m³, 50 ppm
Long-term value: 123 mg/m³, 25 ppm
Sk, BMGV

IOELV (EU) Short-term value: 246 mg/m³, 50 ppm
Long-term value: 98 mg/m³, 20 ppm
Skin

MAK (Switzerland) Short-term value: 98 mg/m³, 20 ppm
Long-term value: 49 mg/m³, 10 ppm
H B SSc;

CAS: 1330-20-7 xylene (<5%)

WEL (Great Britain) Short-term value: 441 mg/m³, 100 ppm
Long-term value: 220 mg/m³, 50 ppm
Sk; BMGV

IOELV (EU) Short-term value: 442 mg/m³, 100 ppm
Long-term value: 221 mg/m³, 50 ppm
Skin

MAK (Switzerland) Short-term value: 440 mg/m³, 100 ppm
Long-term value: 220 mg/m³, 50 ppm
H B;

CAS: 71-36-3 butan-1-ol (<5%)

WEL (Great Britain) Short-term value: 154 mg/m³, 50 ppm
Sk

MAK (Switzerland) Short-term value: 310 mg/m³, 100 ppm
Long-term value: 310 mg/m³, 100 ppm
SSc;

CAS: 75-28-5 Isobutane (<5%)

MAK (Switzerland) Short-term value: 7600 mg/m³, 3200 ppm
Long-term value: 1900 mg/m³, 800 ppm

CAS: 67-63-0 propan-2-ol (<2.5%)

WEL (Great Britain) Short-term value: 1250 mg/m³, 500 ppm
Long-term value: 999 mg/m³, 400 ppm

MAK (Switzerland) Short-term value: 1000 mg/m³, 400 ppm
Long-term value: 500 mg/m³, 200 ppm
B SSc;

CAS: 110-19-0 Isobutyl Acetate (<2.5%)

WEL (Great Britain) Short-term value: 903 mg/m³, 187 ppm
Long-term value: 724 mg/m³, 150 ppm

IOELV (EU) Short-term value: 723 mg/m³, 150 ppm
Long-term value: 241 mg/m³, 50 ppm

MAK (Switzerland) Short-term value: 720 mg/m³, 150 ppm
Long-term value: 240 mg/m³, 50 ppm
SSc;

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CAS: 141-78-6 Ethyl acetate (<1%)

WEL (Great Britain) Short-term value: 1468 mg/m³, 400 ppm
Long-term value: 734 mg/m³, 200 ppm

IOELV (EU) Short-term value: 1468 mg/m³, 400 ppm
Long-term value: 734 mg/m³, 200 ppm

MAK (Switzerland) Short-term value: 1460 mg/m³, 400 ppm
Long-term value: 730 mg/m³, 200 ppm
SSc;

DNELs

CAS: 67-64-1 Acetone

Oral	DNEL Public long-term systemic	62 mg/kg bw/d
Dermal	DNEL Public long-term systemic	62 mg/kg bw/d
	DNEL Worker long-term systemic	186 mg/kg bw/d
Inhalative	DNEL Public long-term systemic	200 mg/m ³
	DNEL Worker long-term systemic	1,210 mg/m ³
	DNEL Worker long-term local effects	2,420 mg/m ³
	DNEL Worker acute/short-term local effects	2,420 mg/m ³

CAS: 123-86-4 BUTYL ACETATE

Oral	DNEL Public long-term systemic	3.4 mg/kg bw/d
Dermal	DNEL Public long-term systemic	3.4 mg/kg bw/d
	DNEL Worker long-term systemic	7 mg/kg bw/d
Inhalative	DNEL Public long-term systemic	102.34 mg/m ³
	DNEL Worker long-term systemic	480 mg/m ³
	DNEL Worker long-term local effects	480 mg/m ³
	DNEL Worker acute/short-term local effects	960 mg/m ³

CAS: 111-76-2 2-butoxyethanol

Oral	DNEL Public long-term systemic	3.2 mg/kg bw/d
Dermal	DNEL Public long-term systemic	38 mg/kg bw/d
	DNEL Worker long-term systemic	75 mg/kg bw/d
Inhalative	DNEL Worker long-term systemic	98 mg/m ³
	DNEL Public long-term local effects	49 mg/m ³
	DNEL Public acute/short-term local effects	123 mg/m ³
	DNEL Worker acute/short-term local effects	246 mg/m ³

CAS: 1330-20-7 xylene

Inhalative DNEL Worker acute/short-term local effects 289 mg/m³

CAS: 71-36-3 butan-1-ol

Oral	DNEL Worker long term systemic effects	310 mg/kg bw/d
Dermal	DNEL Worker long-term systemic	3.125 mg/kg bw/d
Inhalative	DNEL Worker long-term local effects	55 mg/m ³

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CAS: 67-63-0 propan-2-ol

Oral	DNEL Public long-term systemic	26 mg/kg bw/d
Dermal	DNEL Public long-term systemic	319 mg/kg bw/d
	DNEL Worker long-term systemic	888 mg/kg bw/d
Inhalative	DNEL Public long-term systemic	89 mg/m ³
	DNEL Worker long-term systemic	500 mg/m ³

CAS: 13463-67-7 Titanium Dioxide

Oral	DNEL Public long-term systemic	70 mg/kg bw/d
Inhalative	DNEL Worker long-term systemic	10 mg/m ³

CAS: 141-78-6 Ethyl acetate

Oral	DNEL Public long-term systemic	4.5 mg/kg bw/d
Dermal	DNEL Public long-term systemic	37 mg/kg bw/d
	DNEL Worker long-term systemic	63 mg/kg bw/d
Inhalative	DNEL Worker long-term local effects	734 mg/m ³
	DNEL Public acute/short-term local effects	734 mg/m ³
	DNEL Worker acute/short-term local effects	1,468 mg/m ³

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

Oral	DNEL Public long-term systemic	1.67 mg/kg bw/d
Dermal	DNEL Public long-term systemic	54.8 mg/kg bw/d
	DNEL Worker long-term systemic	153.3 mg/kg bw/d
Inhalative	DNEL Public long-term systemic	33 mg/m ³
	DNEL Worker long-term local effects	275 mg/m ³

PNECs

CAS: 67-64-1 Acetone

PNEC STP	100 mg/L
PNEC aqua (fresh water)	10.6 mg/L
PNEC aqua (intermittent releases)	21 mg/L
PNEC aqua (marine water)	1.06 mg/L
PNEC sediment (fresh water)	30.4 mg/kg
PNEC sediment (marine water)	3.04 mg/kg
PNEC soil	29.5 mg/kg

CAS: 123-86-4 BUTYL ACETATE

PNEC STP	160 mg/L
PNEC aqua (fresh water)	10 mg/L
PNEC sediment (fresh water)	41.6 mg/kg
PNEC sediment (marine water)	4.17 mg/kg
PNEC soil	2.47 mg/kg

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CAS: 111-76-2 2-butoxyethanol

PNEC STP	463 mg/L
PNEC aqua (fresh water)	8.8 mg/L
PNEC aqua (marine water)	0.88 mg/L
PNEC sediment (fresh water)	34.6 mg/kg
PNEC soil	2.8 mg/kg

CAS: 1330-20-7 xylene

PNEC STP	6.58 mg/L
PNEC aqua (fresh water)	0.327 mg/L
PNEC aqua (intermittent releases)	0.327 mg/L
PNEC aqua (marine water)	0.327 mg/L
PNEC sediment (fresh water)	12.46 mg/kg
PNEC sediment (marine water)	12.46 mg/kg
PNEC soil	2.31 mg/kg

CAS: 71-36-3 butan-1-ol

PNEC STP	2.476 mg/L
PNEC aqua (fresh water)	0.082 mg/L
PNEC aqua (marine water)	0.082 mg/L
PNEC sediment (fresh water)	0.178 mg/kg
PNEC sediment (marine water)	0.0178 mg/kg
PNEC soil	0.015 mg/kg

CAS: 67-63-0 propan-2-ol

PNEC oral food	160 mg/kg
PNEC STP	2,251 mg/L
PNEC aqua (fresh water)	140.9 mg/L
PNEC aqua (intermittent releases)	140.9 mg/L
PNEC aqua (marine water)	140.9 mg/L
PNEC sediment (fresh water)	552 mg/kg
PNEC sediment (marine water)	552 mg/kg
PNEC soil	28 mg/kg

CAS: 13463-67-7 Titanium Dioxide

PNEC STP	100 mg/L
PNEC aqua (fresh water)	1.1 mg/L
PNEC aqua (marine water)	0.127 mg/L
PNEC sediment (fresh water)	1,000 mg/kg
PNEC sediment (marine water)	100 mg/kg
PNEC soil	100 mg/kg

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CAS: 141-78-6 Ethyl acetate

PNEC STP	mg/L (650)
PNEC aqua (fresh water)	1.125 mg/L
PNEC aqua (intermittent releases)	1.65 mg/L
PNEC aqua (marine water)	0.026 mg/L
PNEC sediment (marine water)	0.125 mg/kg
PNEC soil	0.24 mg/kg

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

PNEC STP	100 mg/L
PNEC aqua (fresh water)	0.635 mg/L
PNEC aqua (intermittent releases)	6.35 mg/L
PNEC aqua (marine water)	0.0635 mg/L
PNEC sediment (fresh water)	3.29 mg/kg
PNEC sediment (marine water)	0.329 mg/kg
PNEC soil	0.29 mg/kg

Ingredients with biological limit values:

CAS: 67-64-1 Acetone (25-<50%)

BAT (Switzerland)	80 mg/l
	Medium: U
	Sampling time: b
	Parameter: Aceton

CAS: 111-76-2 2-butoxyethanol (<5%)

BMGV (Great Britain)	240 mmol/mol creatinine
	Medium: urine
	Sampling time: post shift
	Parameter: butoxyacetic acid
BAT (Switzerland)	150 mg/g Kreatinin
	Medium: U
	Sampling time: b, c
	Parameter: Butoxyessigsäure (nach Hydrolyse)

CAS: 1330-20-7 xylene (<5%)

BMGV (Great Britain)	650 mmol/mol creatinine
	Medium: urine
	Sampling time: post shift
	Parameter: methyl hippuric acid
BAT (Switzerland)	2 g/l
	Medium: U
	Sampling time: b
	Parameter: Methylhippursäuren

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CAS: 71-36-3 butan-1-ol (<5%)

BAT (Switzerland) 10 mg/g Kreatinin
Medium: U
Sampling time: b
Parameter: n-Butanol

2 mg/g Kreatinin
Medium: U
Parameter: n-Butanol

CAS: 67-63-0 propan-2-ol (<2.5%)

BAT (Switzerland) 25 mg/l
Medium: U
Sampling time: b
Parameter: Aceton

25 mg/l
Medium: B
Sampling time: b
Parameter: Aceton

· **Additional information:**

The most current valid lists have been used as a basis for the production of this document.

· **8.2 Exposure controls**

- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
Keep away from food, beverages and petfood.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:**



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Hand protection**



Protective gloves

- **Gloves material** : Nitrile rubber, NBR
- **Eye/face protection**



Tightly sealed goggles

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· **Body protection:**



Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· Physical state	Aerosol
· Form:	Liquid
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not determined.
· Boiling point or initial boiling point and boiling range	Not applicable, as aerosol.
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	1.8 Vol % (CAS: 74-98-6 PROPANE)
· Upper:	9.5 Vol % (CAS: 67-64-1 Acetone)
· Flash point:	<0 °C
· Auto-ignition temperature:	>400 °C (CAS: 107-98-2 1-methoxy-2-propanol)
· Decomposition temperature:	Not determined.
· pH	Mixture is non-polar/aprotic.
· Viscosity:	
· Kinematic viscosity at 40 °C	>20.5 mm ² /s
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	4,500 hPa (CAS: 74-98-6 PROPANE)
· Density and/or relative density	
· Density at 20 °C:	0.73 g/cm ³
· Relative density :	Not determined.
· Vapour density :	Not determined.

· **9.2 Other information :**

· **Important information on protection of health and environment, and on safety.**

· Ignition temperature:	Product is not self igniting.
· Explosive properties:	Not determined.
· Solvent content:	
· COV (USA) :	630.0 g/l / 5.26 lb/gal
· VOC (EC)	86.00 %
· COV (CH) :	86.00 %

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· Change in condition	
· Evaporation rate :	Not applicable.
· Information with regard to physical hazard classes	
· Explosives	Not classified as hazardous
· Flammable gases	Not classified as hazardous
· Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated.
· Oxidising gases	Not classified as hazardous
· Gases under pressure	Not classified as hazardous
· Flammable liquids	Not classified as hazardous
· Flammable solids	Not classified as hazardous
· Self-reactive substances and mixtures	Not classified as hazardous
· Pyrophoric liquids	Not classified as hazardous
· Pyrophoric solids	Not classified as hazardous
· Self-heating substances and mixtures	Not classified as hazardous
· Substances and mixtures, which emit flammable gases in contact with water	Not classified as hazardous
· Oxidising liquids	Not classified as hazardous
· Oxidising solids	Not classified as hazardous
· Organic peroxides	Not classified as hazardous
· Corrosive to metals	Not classified as hazardous
· Desensitised explosives	Not classified as hazardous

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions :** No dangerous reactions known.
- **10.4 Conditions to avoid :** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**

CAS: 67-64-1 Acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)

CAS: 123-86-4 BUTYL ACETATE

Oral	LD50	13,100 mg/kg (rat)
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Dermal LD50 >5,000 mg/kg (rabbit)

Inhalative LC50/4 h >21 mg/l (rat)

CAS: 111-76-2 2-butoxyethanol

Oral LD50 1,200 mg/kg (ATE)

1,300 mg/kg (rat)

Dermal LD50 1,100 mg/kg (rat)

Inhalative LC50/4 h 3 mg/l (ATE)

CAS: 1330-20-7 xylene

Oral LD50 4,300 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rabbit)

CAS: 71-36-3 butan-1-ol

Oral LD50 790 mg/kg (rat)

Dermal LD50 3,400 mg/kg (rabbit)

Inhalative LC50/4 h 8,000 mg/l (rat)

CAS: 67-63-0 propan-2-ol

Oral LD50 5,045 mg/kg (rat)

Dermal LD50 12,800 mg/kg (rabbit)

Inhalative LC50/4 h 30 mg/l (rat)

CAS: 110-19-0 Isobutyl Acetate

Oral LD50 13,400 mg/kg (rat)

CAS: 13463-67-7 Titanium Dioxide

Oral LD50 >2,000 mg/kg (rat)

Dermal LD50 >10,000 mg/kg (rabbit)

Inhalative LC50/4 h >6.82 mg/l (rat)

CAS: 141-78-6 Ethyl acetate

Oral LD50 5,620 mg/kg (rat)

5,620 mg/kg (rabbit)

Dermal LD50 18,000 mg/kg (rabbit)

Inhalative LC50/4 h 230 mg/l (fish)

1,600 mg/l (rat)

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

Oral LD50 8,532 mg/kg (rat)

Inhalative LC50/4 h 35.7 mg/l (rat)

· **Primary irritant effect:**

· **On the skin:** Causes skin irritation.

· **On the eyes:** Causes serious eye irritation.

· **Respiratory or skin sensitization** Based on available data, the classification criteria are not met.

· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

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- **STOT-single exposure** May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· **Aquatic toxicity:**

CAS: 67-64-1 Acetone

LC50 96h 4,740-6,330 mg/l (fish)

EC50 48h 21.6-23.9 mg/l (crustaceans)

CAS: 111-76-2 2-butoxyethanol

LC50 48h 835 mg/l (daphnia)

LC50 96h 1,474 mg/l (Oncorhynchus mykiss)

EC50 48h 1,550 mg/l (daphnia)

CAS: 1330-20-7 xylene

LC50 96h 7,711-9,591 mg/l (fish)

CAS: 71-36-3 butan-1-ol

EC50 1,730 mg/kg (fish)

LC50 48h 1,983 mg/l (daphnia)

LC50 96h 1,730 mg/l (daphnia)

EC50 72h 500 mg/l (Algae)

EC50 48h 1,938 mg/l (daphnia)

CAS: 67-63-0 propan-2-ol

LC50 48h 8,970 mg/l (fish)

EC50 72h >1,000 mg/l (Algae)

CAS: 13463-67-7 Titanium Dioxide

LC50 48h >1,000 mg/l (fish)

EC50 48h >1,000 mg/l (crustaceans)

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

LC50 96h 134 mg/l (Oncorhynchus mykiss)

EC50 48h >500 mg/l (daphnia)

- **12.2 Persistence and degradability** : No further relevant information available.

- **12.3 Bioaccumulative potential** : No further relevant information available.

- **12.4 Mobility in soil** : No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

- **PBT**: Not applicable.

- **vPvB**: Not applicable.

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- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects** : No further relevant information available.
- **Additional ecological information:**
- **General notes:**
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.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation :**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

16 00 00 WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00 gases in pressure containers and discarded chemicals
16 05 04* gases in pressure containers (including halons) containing hazardous substances
HP3 Flammable
HP4 Irritant - skin irritation and eye damage
HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **DOT, ADR, IMDG, IATA** UN1950
- **14.2 UN proper shipping name**
- **ADR** UN1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable
- **14.3 Transport hazard class(es)**

- **ADR**



- **Class** 2 5F Gases.

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· **Label** 2.1

· **IMDG, IATA**



· **Class** 2.1 Gases.

· **Label** 2.1

· **14.4 Packing group**

· **ADR, IMDG, IATA** none

· **14.5 Environmental hazards:** Not applicable.

· **14.6 Special precautions for user** Warning: Gases.

· **Hazard identification number (Kemler code):** -

· **EMS Number:** F-D,S-U

· **Stowage Code** SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

· **Segregation Code** SG69 For AEROSOLS with a maximum capacity of 1 litre:

Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.

For AEROSOLS with a capacity above 1 litre:

Segregation as for the appropriate subdivision of class 2.

For WASTE AEROSOLS:

Segregation as for the appropriate subdivision of class 2.

· **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)** 1L

· **Excepted quantities (EQ)** Code: E0

Not permitted as Excepted Quantity

· **Transport category** 2

· **Tunnel restriction code** D

· **IMDG**

· **Limited quantities (LQ)** 1L

· **Excepted quantities (EQ)** Code: E0

Not permitted as Excepted Quantity

· **UN "Model Regulation":** UN 1950 AEROSOLS, 2.1

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**
- **Regulated explosives precursors**
None of the ingredients is listed.
- **Regulated poisons**
None of the ingredients is listed.
- **Reportable explosives precursors**
CAS: 67-64-1 Acetone: Listed
- **Reportable poisons**
None of the ingredients is listed.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P3a FLAMMABLE AEROSOLS**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
None of the ingredients is listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
CAS: 67-64-1 Acetone
- **Regulation (EC) No 273/2004 on drug precursors**
CAS: 67-64-1 Acetone: 3
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
CAS: 67-64-1 Acetone: 3
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Classification in accordance with Delegated Regulation (EU) 2023/1435 of 2 May 2023 adapting to technical and scientific progress for the 20th time GB CLP and amending Annex VI part 3 of Regulation (EC) 1272/2008.

Classification in accordance with Delegated Regulation (EU) 2024/197 of 19 October 2023 adapting to technical and scientific progress for the 21st time GB CLP and amending Annex VI part 3 of Regulation (EC) 1272/2008.

Classification in accordance with Delegated Regulation (EU) 2024/2564 of 19 June 2024 adapting to

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technical and scientific progress for the 22nd time GB CLP and amending Annex VI part 3 of Regulation (EC) 1272/2008.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2023/707.

Relevant phrases

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- EUH066 Repeated exposure may cause skin dryness or cracking.

Classification according to Regulation (EC) No 1272/2008

- | | |
|--|---|
| Aerosols, Section 2.3.1 | Bridging principles |
| Skin corrosion/irritation | The classification of the mixture is generally based on the |
| Specific target organ toxicity (single exposure) | calculation method using substance data according to |
| | Regulation (EC) No 1272/2008. |
| Serious eye damage/irritation | Expert judgement |

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Abbreviations and acronyms:

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (UK REACH)
- PNEC: Predicted No-Effect Concentration (UK REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- ATE: Acute toxicity estimate values
- Flam. Gas 1A: Flammable gases – Category 1A
- Aerosol 1: Aerosols – Category 1
- Press. Gas (Comp.): Gases under pressure – Compressed gas
- Flam. Liq. 2: Flammable liquids – Category 2
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2

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Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

— GB —