SAFETY DATA SHEET

C.A.R.FIT 1K Etch Primer Spray

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

1.1. Product identifier

Trade name
C.A.R.FIT 1K Etch Primer Spray

Other names / Synonyms
C.A.R.FIT 1K Etch Primer Spray

Product no.
4-430-0400

▼Unique formula identifier (UFI)
HU4N-17F0-N24F-RNS5

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

▼Relevant identified uses of the substance or mixture
Paint
Restricted to professional users.

Use descriptors (REACH)

Sectors of use	Description
LCS "C"	Consumer uses: Private households (= general public = consumers)
LCS "PW"	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Product category	**Description**
PC 9a	Coatings and Paints, Fillers, Putties, Thinners
Process category	**Description**
PROC 7	Industrial spraying
PROC 11	Non industrial spraying

▼Uses advised against
None known.

1.3. Details of the supplier of the safety data sheet

Company and address
August Handel GmbH
Ahornstraße 12
14959 Trebbin
Germany
+49 (0)33731 70 79 60
www.augusthandel.com

E-mail
info@augusthandel.com

Revision
15/07/2025

SDS Version
2.0

Date of previous version
11/07/2022 (1.0)

1.4. ▼Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)
General public:
England - Dial 111 to reach NHS 111 (24 hour service)

Scotland - Dial 111 to reach NHS 24 (24 hour service)
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)
See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Aerosol 1; H222, H229, Extremely flammable aerosol. Pressurised container: May burst if heated.
Eye Irrit. 2; H319, Causes serious eye irritation.
STOT SE 3; H336, May cause drowsiness or dizziness.
Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)

Signal word

Danger

Hazard statement(s)

Extremely flammable aerosol. Pressurised container: May burst if heated. (H222, H229)
Causes serious eye irritation. (H319)
May cause drowsiness or dizziness. (H336)
Harmful to aquatic life with long lasting effects. (H412)

Precautionary statement(s)

General

If medical advice is needed, have product container or label at hand. (P101)
Keep out of reach of children. (P102)

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)
Do not spray on an open flame or other ignition source. (P211)
Do not pierce or burn, even after use. (P251)
Do not breathe spray. (P260)

Response

-

Storage

Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122°F. (P410+P412)

▼Disposal

Dispose of contents/container in accordance with regional regulation.
(P501)

▼Hazardous substances

acetone propan-2-one propanone
n-butyl acetate
2-methoxy-1-methylethyl acetate
butan-1-ol n-butanol

▼Additional labelling

EUH066, Repeated exposure may cause skin dryness or cracking.

UFI: HU4N-17F0-N24F-RNS5

▼VOC

VOC content: 683,6 g/L
MAXIMUM VOC CONTENT (Phase II, category B/e: 840 g/L)

2.3. Other hazards

▼Additional warnings

In the event of leaks, high concentrations of gases can quickly form. They can be toxic, asphyxiating, or explosive.
This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: Composition/information on ingredients

3.1. ▼Substances

Not applicable. This product is a mixture.

3.2. ▼Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
acetone propan-2-one propanone	CAS No.: 67-64-1 EC No.: 200-662-2 UK-REACH: Index No.: 606-001-00-8	20 - <25%	EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1]
n-butyl acetate	CAS No.: 123-86-4 EC No.: 204-658-1 UK-REACH: Index No.: 607-025-00-1	12,5 - <20%	EUH066 Flam. Liq. 3, H226 STOT SE 3, H336	[1]
dimethyl ether	CAS No.: 115-10-6 EC No.: 204-065-8 UK-REACH: Index No.: 603-019-00-8	12,5 - <20%	Flam. Gas 1A, H220 Press. Gas (Comp.) H280	[1]
2-methoxy-1-methylethyl acetate	CAS No.: 108-65-6 EC No.: 203-603-9 UK-REACH: Index No.:	5 - <10%	Flam. Liq. 3, H226 STOT SE 3, H336	[1]
propane	CAS No.: 74-98-6 EC No.: 200-827-9 UK-REACH: Index No.: 601-003-00-5	5 - <10%	Flam. Gas 1A, H220 Press. Gas (Comp.) H280	
butane	CAS No.: 106-97-8 EC No.: 203-448-7 UK-REACH: Index No.: 601-004-01-8	2,5 - <5%	Flam. Gas 1A, H220 Press. Gas (Comp.) H280	
isobutane	CAS No.: 75-28-5 EC No.: 200-857-2 UK-REACH: Index No.: 601-004-00-0	2,5 - <5%	Flam. Gas 1A, H220 Press. Gas (Comp.) H280	
Cellulose nitrate	CAS No.: 9004-70-0 EC No.: UK-REACH: Index No.:	2,5 - <5%	Expl. 1.1, H201	
propan-2-ol isopropyl alcohol isopropanol	CAS No.: 67-63-0 EC No.: 200-661-7 UK-REACH: Index No.: 603-117-00-0	<2,5%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
butan-1-ol n-butanol	CAS No.: 71-36-3 EC No.: 200-751-6 UK-REACH: Index No.: 603-004-00-6	≥1 - <2,5%	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	

trizinc bis(orthophosphate)	CAS No.: 7779-90-0 EC No.: 231-944-3 UK-REACH: Index No.: 030-011-00-6	≥0,25 - <1%	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

▼Other information

[1] European occupational exposure limit.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

IF ON SKIN: Wash with plenty of water and soap.
Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

▼Eye contact

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

▼Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.
In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.
Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. ▼Special hazards arising from the substance or mixture

Extremely flammable aerosol. Pressurised container. In a fire or if heated, a pressure increase will occur and the container may burst.
In use may form flammable/explosive vapour-air mixture.
Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Carbon oxides (CO / CO2)

5.3. ▼Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. ▼Personal precautions, protective equipment and emergency procedures

Accidental releases always pose a serious risk of fire or explosion.
Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.
Ensure adequate ventilation, especially in confined areas.
Avoid inhalation of vapours from spilled material.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. ▼Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. ▼Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. ▼Precautions for safe handling

Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. ▼Conditions for safe storage, including any incompatibilities

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.
Must be stored in a cool and well-ventilated area, away from possible sources of ignition.
Pressurized gas packs (spray cans, aerosol cans) must be stored behind a wire mesh, which allows gases to escape and holds back packs flying around.

Recommended storage material

Always store in containers of the same material as the original container.

Storage conditions

Room temperature 18 to 23°C

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. ▼Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. ▼Control parameters

acetone propan-2-one propanone
Long term exposure limit (8 hours) (ppm): 500
Long term exposure limit (8 hours) (mg/m³): 1210
Short term exposure limit (15 minutes) (ppm): 1500
Short term exposure limit (15 minutes) (mg/m³): 3620

n-butyl acetate
Long term exposure limit (8 hours) (ppm): 150
Long term exposure limit (8 hours) (mg/m³): 724
Short term exposure limit (15 minutes) (ppm): 200
Short term exposure limit (15 minutes) (mg/m³): 966

dimethyl ether
Long term exposure limit (8 hours) (ppm): 400
Long term exposure limit (8 hours) (mg/m³): 766
Short term exposure limit (15 minutes) (ppm): 500
Short term exposure limit (15 minutes) (mg/m³): 958

2-methoxy-1-methylethyl acetate
Long term exposure limit (8 hours) (ppm): 50
Long term exposure limit (8 hours) (mg/m³): 274
Short term exposure limit (15 minutes) (ppm): 100
Short term exposure limit (15 minutes) (mg/m³): 548
Annotations:
Sk = Can be absorbed through the skin and lead to systemic toxicity.

butane
Long term exposure limit (8 hours) (ppm): 600
Long term exposure limit (8 hours) (mg/m³): 1450
Short term exposure limit (15 minutes) (ppm): 750
Short term exposure limit (15 minutes) (mg/m³): 1810
Annotations:
Carc1 = Capable of causing cancer and/or heritable genetic damage if it contains more than 0.1% of buta-1,3-diene.

propan-2-ol isopropyl alcohol isopropanol
Long term exposure limit (8 hours) (ppm): 400
Long term exposure limit (8 hours) (mg/m³): 999
Short term exposure limit (15 minutes) (ppm): 500
Short term exposure limit (15 minutes) (mg/m³): 1250

butan-1-ol n-butanol
Short term exposure limit (15 minutes) (ppm): 50
Short term exposure limit (15 minutes) (mg/m³): 154
Annotations:
Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

▼DNEL

2-methoxy-1-methylethyl acetate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	320 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	796 mg/kg bw/day
Long term – Local effects - General population	Inhalation	33 mg/m³
Long term – Systemic effects - General population	Inhalation	33 mg/m³
Long term – Systemic effects - Workers	Inhalation	275 mg/m³
Short term – Local effects - Workers	Inhalation	550 mg/m³

Long term – Systemic effects - General population	Oral	36 mg/kg bw/day
Short term – Systemic effects - General population	Oral	500 mg/kg bw/day

acetone propan-2-one propanone

Duration:	**Route of exposure:**	**DNEL:**
Long term	-	
Short term	-	
Long term – Systemic effects - General population	Dermal	62 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	186 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	200 mg/m³
Long term – Systemic effects - Workers	Inhalation	1210 mg/m³
Short term – Local effects - Workers	Inhalation	2420 mg/m³
Long term – Systemic effects - General population	Oral	62 mg/kg bw/day

butan-1-ol n-butanol

Duration:	**Route of exposure:**	**DNEL:**
Short term	-	
Long term – Systemic effects - General population	Dermal	3.125 mg/kg bw/day
Long term – Local effects - General population	Inhalation	155 mg/m³
Long term – Local effects - Workers	Inhalation	310 mg/m³
Long term – Systemic effects - General population	Inhalation	55.357 mg/m³
Long term – Systemic effects - General population	Oral	1.562 mg/kg bw/day

butane

Duration:	**Route of exposure:**	**DNEL:**
Long term	-	
Short term	-	

dimethyl ether

Duration:	**Route of exposure:**	**DNEL:**
Long term	-	
Short term	-	
Long term – Systemic effects - General population	Inhalation	471 mg/m³
Long term – Systemic effects - Workers	Inhalation	1894 mg/m³

n-butyl acetate

Duration:	**Route of exposure:**	**DNEL:**
Long term	-	
Short term	-	
Long term – Systemic effects - General population	Dermal	3.4 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	7 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	6 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	11 mg/kg bw/day
Long term – Local effects - General population	Inhalation	35.7 mg/m³
Long term – Local effects - Workers	Inhalation	300 mg/m³
Long term – Systemic effects - General population	Inhalation	12 mg/m³
Long term – Systemic effects - Workers	Inhalation	48 mg/m³

Short term – Local effects - General population	Inhalation	300 mg/m³
Short term – Local effects - Workers	Inhalation	600 mg/m³
Short term – Systemic effects - General population	Inhalation	300 mg/m³
Short term – Systemic effects - Workers	Inhalation	600 mg/m³
Long term – Systemic effects - General population	Oral	2 mg/kg bw/day
Short term – Systemic effects - General population	Oral	2 mg/kg bw/day

propan-2-ol isopropyl alcohol isopropanol

Duration:	**Route of exposure:**	**DNEL:**
Long term	-	
Short term	-	
Long term – Systemic effects - General population	Dermal	319 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	888 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	89 mg/m³
Long term – Systemic effects - Workers	Inhalation	500 mg/m³
Short term – Systemic effects - General population	Inhalation	178 mg/m³
Short term – Systemic effects - Workers	Inhalation	1000 mg/m³
Long term – Systemic effects - General population	Oral	26 mg/kg bw/day
Short term – Systemic effects - General population	Oral	51 mg/kg bw/day

trizinc bis(orthophosphate)

Duration:	**Route of exposure:**	**DNEL:**
Long term – Systemic effects - General population	Dermal	83 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	83 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	2.5 mg/m³
Long term – Systemic effects - Workers	Inhalation	5 mg/m³
Long term – Systemic effects - General population	Oral	830 µg/kg bw/day

▼PNEC

2-methoxy-1-methylethyl acetate

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		635 µg/L
Freshwater sediment		3.29 mg/kg
Intermittent release (freshwater)		6.35 mg/L
Marine water		63.5 µg/L
Marine water sediment		329 µg/kg
Sewage treatment plant		100 mg/L
Soil		290 µg/kg

acetone propan-2-one propanone

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		10.6 mg/L
Freshwater sediment		30.4 mg/kg
Intermittent release (freshwater)		21 mg/L
Marine water		1.06 mg/L
Marine water sediment		3.04 mg/kg
Sewage treatment plant		100 mg/L

Soil		29.5 mg/kg

butan-1-ol n-butanol

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		82 µg/L
Freshwater sediment		324 µg/kg
Intermittent release (freshwater)		2.25 mg/L
Marine water		8.2 µg/L
Marine water sediment		32.4 µg/kg
Sewage treatment plant		2.476 g/L
Soil		16.6 µg/kg

dimethyl ether

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		155 µg/L
Freshwater sediment		681 µg/kg
Intermittent release (freshwater)		1.549 mg/L
Marine water		16 µg/L
Marine water sediment		69 µg/kg
Sewage treatment plant		160 mg/L
Soil		45 µg/kg

n-butyl acetate

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		180 µg/L
Freshwater sediment		981 µg/kg
Intermittent release (freshwater)		360 µg/L
Marine water		18 µg/L
Marine water sediment		98.1 µg/kg
Sewage treatment plant		35.6 mg/L
Soil		90.3 µg/kg

propan-2-ol isopropyl alcohol isopropanol

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		140.9 mg/L
Freshwater sediment		552 mg/kg
Intermittent release (freshwater)		140.9 mg/L
Marine water		140.9 mg/L
Marine water sediment		552 mg/kg
Predators		160 mg/kg
Sewage treatment plant		2.251 g/L
Soil		28 mg/kg

trizinc bis(orthophosphate)

Route of exposure:	**Duration of Exposure:**	**PNEC:**
Freshwater		20.6 µg/L
Freshwater sediment		117.8 mg/kg

Marine water	6.1 µg/L
Marine water sediment	56.5 mg/kg
Sewage treatment plant	100 µg/L
Soil	35.6 mg/kg

8.2. ▼Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

▼General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

▼Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

▼Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

▼Measures to avoid environmental exposure

Provide adequate general and local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Generally

Use only UKCA marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards	
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.				
Combination filter A2P3	Class 2/3	Brown/White	EN14387	

▼Skin protection

Recommended	Type/Category	Standards	
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	-	-	

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Butyl	0.4	> 480	EN374-2, EN374-3, EN388	

▼Eye protection

Type	Standards	
Safety glasses with side shields.	EN ISO 16321-1	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Aerosol

▼Colour
Reddish brown

Odour / Odour threshold
Solvent

▼pH
Not applicable - water solubility < 1 mg/L @ 20°C

▼Density (g/cm^3)
0.8 (20 °C)

▼Kinematic viscosity
Not applicable

Particle characteristics
No data available

Phase changes

▼Melting point/Freezing point (°C)
Not applicable

Softening point/range (°C)
Does not apply to aerosols.

▼Boiling point (°C)
Not applicable - product is an article

Vapour pressure
4000 hPa (20 °C)

Relative vapour density
No data available

▼Decomposition temperature (°C)
Not applicable

Data on fire and explosion hazards

▼Flash point (°C)
Not applicable - product is an article

▼Flammability (°C)
The material is ignitable.

▼Auto-ignition temperature (°C)
240

Lower and upper explosion limit (% v/v)
1.2 - 26.2

Solubility

▼Solubility in water
Practically insoluble

n-octanol/water coefficient (LogKow)
No data available

Solubility in fat (g/L)
No data available

9.2. Other information

Evaporation rate (n-butylacetate = 100)
No data available

▼VOC (g/L)

683,6

▼Other physical and chemical parameters

No data available.

▼Oxidizing properties

No data available

SECTION 10: Stability and reactivity

10.1. ▼Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. ▼Possibility of hazardous reactions

None known.

10.4. ▼Conditions to avoid

Avoid static electricity.

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. ▼Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

▼Acute toxicity

Product/substance	acetone propan-2-one propanone
Species:	Rabbit
Route of exposure:	Oral
Test:	LD50
Result:	5300 mg/kg ·

Product/substance	acetone propan-2-one propanone
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	20000 mg/kg ·

Product/substance	acetone propan-2-one propanone
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	39 mg/m3 ·

Product/substance	acetone propan-2-one propanone
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	5800 mg/kg ·

Product/substance	acetone propan-2-one propanone
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	39 mg/m^3 ·

Product/substance	n-butyl acetate
Species:	Rat
Route of exposure:	Oral

Test:	LD50
Result:	10768 mg/kg ·

Product/substance	n-butyl acetate
Species:	Mouse
Route of exposure:	Oral
Test:	LD50
Result:	6 mg/kg ·

Product/substance	n-butyl acetate
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	21,0 mg/l 4h ·

Product/substance	n-butyl acetate
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	10760 mg/kg ·

Product/substance	n-butyl acetate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	10770 mg/kg ·

Product/substance	n-butyl acetate
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>17600 mg/kg ·

Product/substance	n-butyl acetate
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	>21,0 mg/m³ ·

Product/substance	dimethyl ether
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	308 mg/m³ ·

Product/substance	butane
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	658000 mg/m3 ·

Product/substance	propan-2-ol isopropyl alcohol isopropanol
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	5045 mg/kg ·

Product/substance	propan-2-ol isopropyl alcohol isopropanol
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	12800 mg/kg ·

Product/substance	propan-2-ol isopropyl alcohol isopropanol
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	30 mg/m3 ·

Product/substance	butan-1-ol n-butanol
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	2292 mg/kg ·

Product/substance	butan-1-ol n-butanol
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	3430 mg/kg ·

Product/substance	butan-1-ol n-butanol
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	17,76 mg/m3 ·

Product/substance	trizinc bis(orthophosphate)
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>5000 mg/kg ·

Product/substance	trizinc bis(orthophosphate)
Species:	Mouse
Route of exposure:	Oral
Test:	LD50
Result:	522 mg/kg ·

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

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/irritation
Causes serious eye irritation.

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

Skin sensitisation
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.

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

Long term effects
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs.

Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure. Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

▼Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

propan-2-ol isopropyl alcohol isopropanol has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. ▼Toxicity

Product/substance	acetone propan-2-one propanone
Species:	Crustacean
Duration:	48 hours
Test:	EC50
Result:	39 mg/l ·

Product/substance	acetone propan-2-one propanone
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	5000 mg/l ·

Product/substance	acetone propan-2-one propanone
Species:	Fish
Duration:	14 days
Test:	LC50
Result:	4042 mg/l ·

Product/substance	acetone propan-2-one propanone
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	5540 mg/L ·

Product/substance	acetone propan-2-one propanone
Species:	Daphnia
Duration:	48 hours
Test:	LC50
Result:	2262 mg/L ·

Product/substance	acetone propan-2-one propanone
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	8800 mg/L ·

Product/substance	n-butyl acetate
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	18 mg/L ·

Product/substance	n-butyl acetate
Species:	Fish
Duration:	96 hours
Test:	LC50

Result:	100 mg/L ·

Product/substance	n-butyl acetate
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	185 mg/L ·

Product/substance	n-butyl acetate
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	62 mg/L ·

Product/substance	n-butyl acetate
Species:	Crustacean
Duration:	48 hours
Test:	EC50
Result:	32 mg/L ·

Product/substance	n-butyl acetate
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	44 mg/L ·

Product/substance	n-butyl acetate
Species:	Algae
Duration:	96 hours
Test:	EC50
Result:	320 mg/L ·

Product/substance	n-butyl acetate
Species:	Daphnia
Duration:	24 hours
Test:	LC50
Result:	205 mg/L ·

Product/substance	dimethyl ether
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	>4000 mg/l ·

Product/substance	propan-2-ol isopropyl alcohol isopropanol
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	13299 mg/l ·

Product/substance	propan-2-ol isopropyl alcohol isopropanol
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	4200 mg/l ·

Product/substance	butan-1-ol n-butanol
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	1328 mg/l ·

Product/substance	butan-1-ol n-butanol
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	8500 mg/l ·

Product/substance	butan-1-ol n-butanol
Species:	Crustacean
Duration:	96 hours
Test:	LC50
Result:	1376 mg/l ·

Product/substance	trizinc bis(orthophosphate)
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	0,136 mg/l ·

Product/substance	trizinc bis(orthophosphate)
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	0,04 mg/l ·

Product/substance	trizinc bis(orthophosphate)
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	0,14 mg/l ·

Harmful to aquatic life with long lasting effects.

12.2. ▼Persistence and degradability
Based on available data, the classification criteria are not met.

12.3. ▼Bioaccumulative potential
Based on available data, the classification criteria are not met.

12.4. ▼Mobility in soil
No data available.

12.5. ▼Results of PBT and vPvB assessment
This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. ▼Endocrine disrupting properties
This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects
This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.
This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

13.1. ▼Waste treatment methods
Product is covered by the regulations on hazardous waste. (*)
HP 3 - Flammable
HP 4 - Irritant (skin irritation and eye damage)
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

▼EWC code

08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances
15 01 04	Metallic packaging

Contaminated packing
Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN1950	AEROSOLS	Transport hazard class: 2 Label: 2.1 Classification code: 5F 	-	No	Limited quantities: 1 L Tunnel restriction code: (D) See below for additional information.
IMDG	UN1950	AEROSOLS	Transport hazard class: 2 Label: 2.1 Classification code: 5F 	-	No	Limited quantities: 1 L EmS: F-D S-U See below for additional information.
IATA	UN1950	AEROSOLS	Transport hazard class: 2 Label: 2.1 Classification code: 5F 	-	No	See below for additional information.

* Packing group

** Environmental hazards

▼Additional information

This product is within scope of the regulations of transport of dangerous goods.
Although this product is environmentally hazardous, the environmentally hazardous substance mark has been omitted as the product is supplied in packaging with a maximum quantity of 5 L / 5 kg.
-
ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.
IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. ▼Special precautions for user

Not applicable.

14.7. ▼Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application

Restricted to professional users.
People under the age of 18 shall not be exposed to this product.

▼Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

P3a - FLAMMABLE AEROSOLS, Qualifying quantity (lower-tier): 150 tonnes (net) / (upper-tier): 500 tonnes (net)

Regulation on drug precursors

acetone propan-2-one propanone is included (Category 3)

Regulation on explosives precursors

acetone propan-2-one propanone (Annex II)

▼REACH, Annex XVII

acetone propan-2-one propanone is subject to UK-REACH restrictions (entry 40).
n-butyl acetate is subject to UK-REACH restrictions (entry 40).
dimethyl ether is subject to UK-REACH restrictions (entry 40).
2-methoxy-1-methylethyl acetate is subject to UK-REACH restrictions (entry 40).
propane is subject to UK-REACH restrictions (entry 40).
butane is subject to UK-REACH restrictions (entry 40).
isobutane is subject to UK-REACH restrictions (entry 40).
propan-2-ol isopropyl alcohol isopropanol is subject to UK-REACH restrictions (entry 40).
butan-1-ol n-butanol is subject to UK-REACH restrictions (entry 40).

▼Additional information

Not applicable.

▼Sources

The Health and Safety at Work etc. Act 1974 Regulations 2013.
The Aerosol Dispensers Regulations 2009 No. 2824, amended in 2014 (No. 1130) and in 2018 (No. 29).
Control of Major Accident Hazards (COMAH) Regulations 2015.
2012 No. 1715 ENVIRONMENTAL PROTECTION: The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
The Controlled Drugs (Drug Precursors) Regulations 2008.
Council Regulation (EC) No 2019/1148 on explosives precursors as retained and amended in UK law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

▼Full text of H-phrases as mentioned in section 3

EUH066, Repeated exposure may cause skin dryness or cracking.
H201, Explosive; mass explosion hazard.
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.
H315, Causes skin irritation.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H335, May cause respiratory irritation.
H336, May cause drowsiness or dizziness.

H400, Very toxic to aquatic life.
H410, Very toxic to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

LCS "C" = Consumer uses: Private households (= general public = consumers)
LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
PROC 7 = Industrial spraying
PROC 11 = Non industrial spraying
PC 9a = Coatings and Paints, Fillers, Putties, Thinners

▼Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

▼Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the mixture in regard to physical hazards has been based on experimental data.

The safety data sheet is validated by

S. Grade

▼Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en