

SAFETY DATA SHEET

C.A.R.FIT Black Paint Spray mat

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

1.1. Product identifier

▼ Trade name

C.A.R.FIT Black Paint Spray mat

Other names / Synonyms

C.A.R.FIT Black Paint Spray mat

Product no.

4-141-0400

Unique formula identifier (UFI)

TQH3-7734-X245-TDE2

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

Relevant identified uses of the substance or mixture

Spray varnish

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 11	Non industrial spraying
PROC 7	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

17/06/2025

SDS Version

2.0

Date of previous version

17/06/2025 (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)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Scotland - Dial 112 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.

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)

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 not 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: TQH3-7734-X245-TDE2

VOC

VOC content: 664,8 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.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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	25-40%	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	10-15%	EUH066 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	10-15%	Flam. Gas 1A, H220 Press. Gas (Comp.) H280	
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]
butane	CAS No.: 106-97-8 EC No.: 203-448-7 UK-REACH: Index No.: 601-004-01-8	5-10%	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	5-10%	Flam. Gas 1A, H220 Press. Gas (Comp.) H280	
butan-1-ol n-butanol	CAS No.: 71-36-3 EC No.: 200-751-6 UK-REACH: Index No.: 603-004-00-6	1-3%	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	
Cellulose nitrate	CAS No.: 9004-70-0 EC No.: UK-REACH: Index No.:	1-3%	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	1-3%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	

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

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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.

Keep unauthorized persons away from the spill

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

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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.

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.

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

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/m ³
Long term – Systemic effects - General population	Inhalation	33 mg/m ³
Long term – Systemic effects - Workers	Inhalation	275 mg/m ³
Short term – Local effects - Workers	Inhalation	550 mg/m ³
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/m ³
Long term – Systemic effects - Workers	Inhalation	1210 mg/m ³
Short term – Local effects - Workers	Inhalation	2420 mg/m ³
Long term – Systemic effects - General population	Oral	62 mg/kg bw/day

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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/m ³
Long term – Local effects - Workers	Inhalation	310 mg/m ³
Long term – Systemic effects - General population	Inhalation	55.357 mg/m ³
Long term – Systemic effects - General population	Oral	1.562 mg/kg bw/day

butane

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

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/m ³
Long term – Local effects - Workers	Inhalation	300 mg/m ³
Long term – Systemic effects - General population	Inhalation	12 mg/m ³
Long term – Systemic effects - Workers	Inhalation	48 mg/m ³
Short term – Local effects - General population	Inhalation	300 mg/m ³
Short term – Local effects - Workers	Inhalation	600 mg/m ³
Short term – Systemic effects - General population	Inhalation	300 mg/m ³
Short term – Systemic effects - Workers	Inhalation	600 mg/m ³
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/m ³
Long term – Systemic effects - Workers	Inhalation	500 mg/m ³
Short term – Systemic effects - General population	Inhalation	178 mg/m ³
Short term – Systemic effects - Workers	Inhalation	1000 mg/m ³
Long term – Systemic effects - General population	Oral	26 mg/kg bw/day
Short term – Systemic effects - General population	Oral	51 mg/kg bw/day

PNEC

2-methoxy-1-methylethyl acetate

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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

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

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Sewage treatment plant	2.251 g/L
Soil	28 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

No specific requirements.

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
No specific requirements.	-	-

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

Black

Odour / Odour threshold

Solvent

pH

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

Density (g/cm³)

0.7 (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 aerosol

Vapour pressure

3500 hPa (20 °C)

Relative vapour density

Not applicable

Decomposition temperature (°C)

Not applicable

Data on fire and explosion hazards

Flash point (°C)

Not applicable - product is an aerosol

Flammability (°C)

The material is ignitable.

Auto-ignition temperature (°C)

333

Lower and upper explosion limit (% v/v)

1.2 - 13

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)

664,8

Other physical and chemical parameters

No data available.

Oxidizing properties

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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
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According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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 butane
Species: Rat
Route of exposure: Inhalation
Test: LC50
Result: 658000 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 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

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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 ·

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 ·

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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 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 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 ·

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

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

None known.

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)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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.

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.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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).

propane is subject to UK-REACH restrictions (entry 40).

2-methoxy-1-methylethyl acetate 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).

butan-1-ol n-butanol is subject to UK-REACH restrictions (entry 40).

propan-2-ol isopropyl alcohol isopropanol 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.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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 11 = Non industrial spraying
 PROC 7 = 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 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