

Safety Data Sheet

according to UK REACH Regulation

Aceton

Revision date: 25.05.2023

Product code: 130150-X

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

1.1. Product identifier

Aceton

Substance name: acetone
 CAS No: 67-64-1
 EC No: 200-662-2

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

1.3. Details of the supplier of the safety data sheet

Company name: R&G Faserverbundwerkstoffe GmbH
 Composite Technology
 Street: Im Meißel 7 - 13
 Place: D-71111 Waldenbuch
 Post-office box: 1145
 D-71107 Waldenbuch
 Telephone: +49 (0)7157 5304-60 Telefax: +49 (0)7157 5304-70
 e-mail: info@r-g.de
 Contact person: Michael Groß
 Internet: www.r-g.de
 Responsible Department: Management

1.4. Emergency telephone number:

Vergiftungs-Informations-Zentrale Freiburg
 Tel: +49 (0)761 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 2; H225
 Eye Irrit. 2; H319
 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

acetone; propan-2-one; propanone

Signal word: Danger

Pictograms:

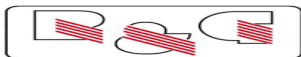


Hazard statements

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P241 Use explosion-proof electrical/ventilating/lighting equipment.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with



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P305+P351+P338 water or shower.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

This substance does not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
67-64-1	acetone			100 %
	200-662-2			
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Change contaminated clothing. If victim is at risk of losing consciousness, position and transport on their side.

After inhalation

fresh air or oxygen supply Consult a doctor when complaints persist.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Consult a doctor when complaints persist.

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

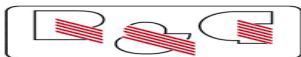
Irritant effect on the eye, mild irritation to the skin (rabbit).
 Narcotic effects. difficulty of breathing. Headache. Dizziness.

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

Prolonged/repetitive skin contact may cause skin defatting or dermatitis. Rub greasy ointment into the skin. Can cause nausea and vomiting with danger of Chemical Pneumonia. Observe risk of aspiration if vomiting occurs. Do not give fatty oils and milk. To supervise the blood circulation. Follow-up observations for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

5.1. Extinguishing media



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Suitable extinguishing media

alcohol resistant foam. Extinguishing powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Formation of explosive/highly flammable vapour/air mixtures possible with insufficient ventilation and/or during use. Solvent vapours are heavier than air and spread over the ground. The presence of flammable substances or mixtures must be expected in areas not covered by ventilation, e.g. unventilated low-lying areas such as pits, ducts, cellars and shafts. Risk of bursting of the container.

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate fire-fighting measures to the fire surroundings. Do not allow run-off from fire-fighting to enter drains or water courses. Contaminated fire-fighting water must be collected separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Wear personal protection equipment. Keep unprotected persons at a safe distance.

For non-emergency personnel

Move persons to safety. Avoid sources of ignition. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Ensure sufficient ventilation.

6.2. Environmental precautions

Prevent seepage into drains or surface and ground water. Retain and dispose of contaminated wash water. Notify the responsible authority when the substance enters open water, the soil, or sewerage system.

6.3. Methods and material for containment and cleaning up

For cleaning up

Wipe up with absorbent material (eg. cloth, fleece). Absorb spillages: Sawdust, diatomite, sand, universal binder.

Other information

Take to disposal in suitable containers. Ventilate the affected area.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

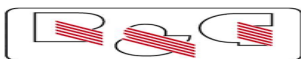
7.1. Precautions for safe handling

Advice on safe handling

Use local and general ventilation. Avoid sources of ignition. Keep away from ignition sources - Do not smoke. Take measures against electrostatic discharge. Use only in well-ventilated areas. Due to explosion hazard, prevent vapours from entering cellars, sewers and pits. Ground containers and equipment to be filled. Use explosion-proof electrical equipment/ventilation/lighting systems. Use only non-sparking tools.

Advice on protection against fire and explosion

The presence of flammable substances or mixtures must be expected in areas not covered by ventilation, e.g. unventilated low-lying areas such as pits, ducts, cellars and shafts. Vapours are heavier than air, spread along the ground and form an explosive mixture with air. Vapours can form an explosive mixture together with air. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Use water to cool receptacles in danger.



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Advice on general occupational hygiene

Wash hands after use. Do not eat, drink or smoke in areas where work is taking place. Remove contaminated clothing and protective equipment before entering areas where food is being eaten. Do not store food and drink together with chemicals. Do not use containers for chemicals that are usually intended for holding food. Keep away from food, drink and animal feed.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in well sealed receptacles at a cool, dry location. May attack certain synthetics and rubber. Keep away from sources of ignition - Do not smoke. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Take measures against electrostatic discharge. Protect from sunlight.

Further information on storage conditions

Keep in well sealed receptacles at a cool, dry location.

7.3. Specific end use(s)

The product does not contain any relevant quantities of substances with workplace-related limit values to be monitored.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
67-64-1	acetone			
	Worker DNEL, long-term	inhalation	systemic	1.210 mg/m ³
	Worker DNEL, acute	inhalation	local	2.420 mg/m ³
	Worker DNEL, long-term	dermal	systemic	186 mg/kg bw/day

PNEC values

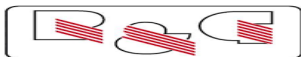
CAS No	Substance	Value
	Environmental compartment	
67-64-1	acetone	
	Freshwater	10,6 mg/l
	Marine water	1,06 mg/l
	Freshwater sediment	30,4 mg/kg
	Marine sediment	3,04 mg/kg
	Micro-organisms in sewage treatment plants (STP)	100 mg/l
	Soil	29,5 mg/kg

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Protective goggles (EN 166)



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Hand protection

The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and degradation. Material of gloves: The selection of suitable gloves not only the material but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials can not advance and has therefore to be checked before use. Neoprene gloves. Gloves made of synthetic rubber. The exact Durchbuchzeit is from the protective glove manufacturer to manufacturer.

Skin protection

Wear protective clothing.

Respiratory protection

In case of insufficient ventilation, use respiratory protection.

Environmental exposure controls

Use suitable container to avoid contamination of the environment. Prevent entry into drains or surface and ground water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	slightly sweetish
Melting point/freezing point:	- 94,8 °C
Boiling point or initial boiling point and boiling range:	56,05 °C
Flammability:	Flammable liquid according to GHS criteria.
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	< - 17 °C
Auto-ignition temperature:	465 °C
pH-Value (at 20 °C):	5-6
Viscosity / kinematic: (at 20 °C)	0,41 mm ² /s
Water solubility:	completely soluble
Partition coefficient n-octanol/water:	-0,23
Vapour pressure: (at 20 °C)	240 hPa
Density (at 20 °C):	0,79 g/cm ³
Particle characteristics:	not relevant

9.2. Other information

Other safety characteristics

Evaporation rate: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

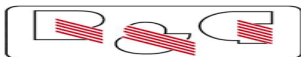
It is a reactive substance. The mixture contains reactive substance(s). Risk of ignition.

10.2. Chemical stability

See "Conditions to avoid" below.

10.3. Possibility of hazardous reactions

In case of insufficient ventilation and/or during use, formation of flammable/explosive vapour-air mixture is possible.



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10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.

Use explosion-proof electrical equipment/ventilation systems/lighting systems. Only use non-sparking tools. Take precautionary measures against electrostatic discharges.

10.5. Incompatible materials

Oxidising agent

10.6. Hazardous decomposition products

Reasonably anticipated hazardous decomposition products generated from use, storage, spillage and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

oral: LD50 5.800 mg/kg (rat)

inhalativ: LC50 / 4h > 76 mg/l (rat)

Irritation and corrosivity

Causes serious eye irritation.

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

Sensitising effects

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

Shall not be classified as a respiratory or skin sensitiser.

Carcinogenic/mutagenic/toxic effects for reproduction

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

none known

STOT-single exposure

May cause drowsiness or dizziness. (acetone)

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

May cause drowsiness or dizziness.

Aspiration hazard

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

Shall not be classified as an aspiration hazard.

Specific effects in experiment on an animal

Store away from foodstuffs.

11.2. Information on other hazards

Endocrine disrupting properties

Not listed.

Other information

Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

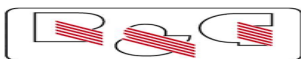
12.1. Toxicity

According to 1272/2008/EG: Shall not be classified as hazardous to the aquatic environment.

Ordinance on systems for handling substances hazardous to water (AwSV): WGK 1, slightly hazardous to water

12.2. Persistence and degradability

The substance is easily biodegradable.



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12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Henry constant 2.929 Pa m³/mol at 25 °C

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.
Not listed.

12.7. Other adverse effects

No data available.

Further information

Do not let the product enter the groundwater, open water, or the sewerage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

May not be disposed of together with domestic waste. Do not allow to enter the sewerage system. Avoid release into the environment.

Contaminated packaging

Dispose of waste according to applicable legislation
For cleaning up : Water. Water (with cleaning agent).
Completely emptied packings can be re-cycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	UN 1090
<u>14.2. UN proper shipping name:</u>	ACETONE
<u>14.3. Transport hazard class(es):</u>	3
<u>14.4. Packing group:</u>	II
Hazard label:	3



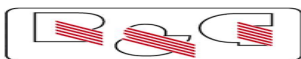
Classification code:	F1
Limited quantity:	1L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E

Other applicable information (land transport)

: 2

Inland waterways transport (ADN)

<u>14.1. UN number or ID number:</u>	UN 1090
<u>14.2. UN proper shipping name:</u>	ACETONE
<u>14.3. Transport hazard class(es):</u>	3
<u>14.4. Packing group:</u>	II
Hazard label:	3



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Classification code: F1
 Limited quantity: 1L
 Excepted quantity: 33

Marine transport (IMDG)

14.1. UN number or ID number: UN 1090
14.2. UN proper shipping name: ACETONE (ACETONE SOLUTIONS)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Marine pollutant: Nein
 Limited quantity: 1 L
 Excepted quantity: E2
 EmS: F-E, S-D

Other applicable information (marine transport)

: -

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1090
14.2. UN proper shipping name: ACETONE (ACETONE SOLUTIONS)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Limited quantity Passenger: 1 L
 Excepted quantity: E2
 IATA-packing instructions - Passenger: 305
 IATA-max. quantity - Passenger: 5 L
 IATA-packing instructions - Cargo: 307
 IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

: Y305

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

SECTION 15: Regulatory information

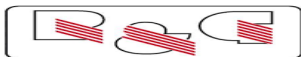
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

2004/42/EC (VOC): 100 %
 Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS



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National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

- - non-hazardous to water

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,10,11,12,13,14,15.

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.