
SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name/designation** Solvo Aerosol 500 ml**1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses****Sector of uses [SU]**

SU3 Industrial uses

Product categories [PC]

PC35 Washing and cleaning products (including solvent based products)

1.3 Details of the supplier of the safety data sheet**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

Büchem Chemie + Technik GmbH & Co. KG

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E-mail: buechem@buechem.de**1.4 Emergency telephone number****Emergency telephone number**

+49 172 2535524

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]****Health hazards:****health hazards**

Skin Irrit. 2

hazard statements for health hazards

H315 Causes skin irritation.

health hazards

Eye Irrit. 2

hazard statements for health hazards

H319 Causes serious eye irritation.

health hazards

STOT SE 3

hazard statements for health hazards

H336 May cause drowsiness or dizziness.

health hazards

Asp. Tox. 1

hazard statements for health hazards

H304 May be fatal if swallowed and enters airways.

Physical hazards:**Physical hazards**

Flam. Aerosol 1

hazard statements for physical hazards

H222 Extremely flammable aerosol.

Environmental hazards:**Environmental hazards**

Aquatic Chronic 2

hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]****Hazard pictograms**

GHS02



GHS07



GHS09

Signal word

Danger

Hazard Statements:**Hazard statements for physical hazards:**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Hazard statements for health hazards:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Hazard statements for environmental hazards:

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements:**General:**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Prevention:

P271 Use only outdoors or in a well-ventilated area.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

Storage:

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Product identifiers

Propan-2-ol

Aceton

Naphtha (Erdöl), mit Wasserstoff behandelt, leicht ; Naphtha, wasserstoffbehandelt, niedrigsiedend

Supplemental Hazard information (EU):**health properties**

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients**3.1/3.2 Mixture related information****Hazardous ingredients**

propan-2-ol	<5 %
CAS 67-63-0	
EC 200-661-7	
INDEX 603-117-00-0	
Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336	
acetone	10 - 20 %
CAS 67-64-1	
EC 200-662-2	
INDEX 606-001-00-8	
Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336	
propane	5 - 10 %
CAS 74-98-6	
EC 200-827-9	
INDEX 601-003-00-5	
Flam. Gas 1, H220	
butane	10 - 30 %
CAS 106-97-8	
EC 203-448-7	
INDEX 601-004-00-0	
Flam. Gas 1, H220	
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	30 - 50 %
CAS 64742-49-0	
EC 265-151-9	
INDEX 649-328-00-1	
Muta. 1B, H340 / Carc. 1B, H350 / Asp. Tox. 1, H304	

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink plenty of water. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely.

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂)

Extinguishing powder

Water spray

alcohol resistant foam

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Use suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures

Remove all sources of ignition. Provide adequate ventilation.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up**For containment****Suitable material for taking up:**

Universal binder

6.4 Reference to other sections

No data available

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Protective measures****Advices on safe handling**

Avoid:

Inhalation of vapours or spray/mists

Eye contact

Do not spray on naked flames or any incandescent material. Use only in well-ventilated areas.

Measures to prevent fire

The product is:

Highly flammable

Keep away from sources of ignition. - No smoking. When using do not eat, drink, smoke, sniff. Vapours can form explosive mixtures with air. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

7.2 Conditions for safe storage, including any incompatibilities**Hints on joint storage****Storage class**

aerosols

Further information on storage conditions

Protect containers against damage. Heating causes rise in pressure with risk of bursting.

Protect against:

Heat

Frost

Humidity

Do not store at temperatures above

50°C

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

CAS No.	Substance name	LTV	STV	remark
106-97-8	Butane	1450 mg/m ³ 600 ppm	1810 mg/m ³ 750 ppm	
67-63-0	Propan-2-ol	999 mg/m ³ 400 ppm	1250 mg/m ³ 500 ppm	Great Britain (UK)
				Great Britain (UK)

CAS No.	Substance name	LTV	STV	remark
67-64-1	Acetone	1210 mg/m ³ 500 ppm	3620 mg/m ³ 1500 ppm	Great Britain (UK)

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

8.2 Exposure controls

Personal protection equipment

Eyeface protection

Suitable eye protection:

goggles

Skin protection

Skin protection

Suitable material:

NBR (Nitrile rubber)

Required properties:

liquid-tight

remark

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Respiratory protection

Respiratory protection necessary at:

exceeding exposure limit values

insufficient ventilation

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

Aerosol

Colour

colourless

Odour

characteristic

	parameter	Method - source - remark
	pH	No data available
	Melting point/freezing point	No data available
	Initial boiling point and boiling range	No data available
	Flash point (°C)	No data available
	Evaporation rate	No data available
	Flammable solids	No data available

parameter		Method - source - remark
Flammable aerosols		Tests on the flammability of aerosols are not required as the aerosol is classified as "extremely flammable". Extremely flammable aerosol (H222).
Upper explosion limit (Vol-%)		No data available
Lower explosion limit (Vol-%)		No data available
Vapour pressure	ca.7300 hPa	at °C: 50 °C
Density	0,663 g/cm ³	at °C: 20 °C
Vapour density		No data available
Fat solubility (g/L)		No data available
Water solubility (g/L)		partially soluble
Soluble (g/L) in		No data available
Partition coefficient: n-octanol/water		No data available
Auto-ignition temperature		No data available
Auto-ignition temperature		No data available
Decomposition temperature		No data available
Explosives		No data available
Oxidising gases		No data available
Oxidising liquids		No data available
Oxidising solids		No data available

9.2 Other safety information

Solvent content (%) 50 - 70 %

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

In case of warming:

Danger of bursting container.

10.5 Incompatible materials

Materials to avoid

Oxidising agent, strong

10.6 Hazardous decomposition products

Carbon monoxide.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Acute dermal toxicity****ingredient** propan-2-ol**Acute toxicity, dermal** 13400 mg/kg**Effective dose**

LD50:

Species:

Rabbit

ingredient acetone**Acute toxicity, dermal** 20000 mg/kg**Effective dose**

LD50:

Species:

Rat

ingredient Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha**Acute toxicity, dermal** >2000 mg/kg**Effective dose**

LD50:

Species:

Rat

Acute inhalation toxicity (gas)**ingredient** propane**Acute inhalation toxicity (gas)** >20 mg/l**Effective dose**

LC50:

Exposure time 4 h**Species:**

Rat

ingredient butane**Acute inhalation toxicity (gas)** 658 mg/l**Effective dose**

LC50:

Exposure time 4 h**Species:**

Rat

ingredient propan-2-ol**Acute inhalation toxicity (gas)** 30 mg/l**Effective dose**

LC50:

Exposure time 4 h

Species:

Rat

ingredient Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha**Acute inhalation toxicity (gas)** >20 mg/l**Effective dose**

LC50:

Exposure time 4 h**Species:**

Rat

Acute oral toxicity**ingredient** Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha**Acute toxicity, oral** >2000 mg/kg**Effective dose**

LD50:

Species:

Rat

ingredient acetone**Acute toxicity, oral** 5800 mg/kg**Effective dose**

LD50:

Species:

Rat

ingredient propan-2-ol**Acute toxicity, oral** 4570 mg/kg**Effective dose**

LD50:

Species:

Rat

skin corrosion/irritation**Skin corrosion****Assessment/classification**

Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

Eye damage/irritation**Assessment/classification**

Causes serious eye irritation.

STOT-single exposure**STOT SE 3****Assessment/classification**

May cause drowsiness or dizziness.

SECTION 12: Ecological information**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations
13.1 Waste treatment methods
Appropriate disposal / Product
Appropriate disposal/Product:

Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions.

Appropriate disposal / Package
Contaminated packaging:

Completely emptied packings can be re-cycled.

Waste code packaging 150104

Special monitoring requiring wastes: No

Waste name

metallic packaging

remark
Additional information

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	1950	1950	1950
14.2 Proper Shipping Name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3 Class(es)	2	2.1	2.1
14.4 Packing group			
14.5 ENVIRONMENTALLY HAZARDOUS	No	No	No
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	not applicable	not applicable	not applicable

Additional information - Land transport (ADR/RID)

Hazard label(s) 2.1

Limited quantity (LQ) 1 L

tunnel restriction code D

transport category 2

Additional information - Sea transport (IMDG)

Marine pollutant No

remark LQ

Additional information - Air transport (ICAO-TI / IATA-DGR)

Limited quantity (LQ) 30

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation****Authorisations and/or restrictions on use****Restrictions of occupation**

Observe restrictions to employment for juvenils 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.

National regulations**Germany****Water hazard class (WGK)**

slightly hazardous to water (WGK 1)

source

Phrase ID 5028 Übersetzung (ISO-Code: en) nicht gefunden!!

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information**Key literature references and sources for data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.