

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

1.1. Product identifier

Name of product Acaroflo

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

! Recommended intended purpose(s)

Surface spray

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor

Davimed GmbH
Bahnhofstr. 1-3, D-23795 Bad Segeberg
Phone +49 (0)4551 808 60-10, Fax +49 (0)4551 808 60-60
E-Mail info@davimed.de
Internet <http://www.davimed.de>

Advice

Phone +49 (0)4551 808 60-0
Fax +49 (0)4551 808 60-60

1.4. Emergency telephone number

Emergency advice

Giftinformationszentrale Göttingen GIZ
Phone +49 (0)551 19 240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

! Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Aerosol 1	H222, H229	

Hazard statements for physical hazards

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

Additional hints

This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS02

! Signal word

Danger

Hazard statements for physical hazards

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

Acaroflo**Precautionary Statements****General**

P102 Keep out of reach of children.

P103 Read label before use.

Prevention

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.

P262 Do not get in eyes, on skin, or on clothing.

Storage

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

Disposal

P501 Dispose of contents/container to an approved waste handling.

2.3. Other hazards**Results of PBT and vPvB assessment**

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

! SECTION 3: Composition/ information on ingredients**3.1. Substances**

not applicable

3.2. Mixtures**! Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
74-98-6	200-827-9	propane	< 80	Flam. Gas 1, H220 / Press. Gas
75-28-5	200-857-2	isobutane	< 80	Flam. Gas 1, H220 / Press. Gas
106-97-8	203-448-7	butane	< 80	Flam. Gas 1, H220 / Press. Gas
120-51-4	204-402-9	benzyl-benzoate	< 2,5	Acute Tox. 4, H302 / Aquatic Chronic 2, H411 / Aquatic Acute 1, H400

REACH

CAS No	Name	REACH registration number
120-51-4	benzyl-benzoate	01-2119976371-33-XXXX

! SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove moisted clothing immediately.

In the event of persistent symptoms receive medical treatment.

! In case of inhalation

Ensure of fresh air.

In case of respiratory standstill give artificial respiration by respirator and send for a doctor.

In case of skin contact

In case of contact with skin wash off with soap and water.

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! In case of eye contact

In case of contact with eyes rinse thoroughly with water.
If irritation or discomfort occur, seek medical advice.
remove contact lenses

In case of ingestion

Refer to medical treatment.
Rinse out mouth and give plenty of water to drink.

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

No information available.

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

No information available.

! SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam
Dry fire-extinguishing substance
Carbon dioxide
Water spray jet

5.2. Special hazards arising from the substance or mixture

Fire gas of organic material has to be classed invariably as respiratory poison.
In the event of fire the following can be released:
Provide good room ventilation even at ground level (vapors are heavier than air). Ignition over greater distance possible.
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Formation of explosive / highly flammable vapor-air mixture possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply (isolated).

! Additional information

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Cool endangered containers with water spray.
If possible without risk, remove containers from the danger zone.

! SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

! For non-emergency personnel

Ensure adequate ventilation.
Use personal protective clothing.
Keep away sources of ignition.
High risk of slipping due to leakage/spillage of product.
Avoid contact with clothing, skin and eyes.
If vapors and aerosols occur, use suitable respiratory protection.

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6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up

Send in suitable containers for recovery or disposal.
Take up residues with absorbent material (e.g. sand, general-purpose binder).
After taking up the material dispose according to regulation.
Ensure adequate ventilation.

6.4. Reference to other sections

Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8
Emergency telephone number: see section 1

! SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Avoid contact with eyes and skin.

Keep container tightly closed.

General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

! Hygiene measures

Clean skin thoroughly after working.

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Work in rooms with good ventilation.

Wash hands and skin before breaks and after work.

Use barrier skin cream.

! Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

The heavy vapours may bridge a long distance to source of ignition.

Vapours can form an explosive mixture with air.

Keep away from heat and ignition sources.

Store and handle only in the open air or in explosion-protected rooms.

The vapours of product are heavier than air.

Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

Further information on storage conditions

Keep container tightly closed and store at cool and aired place.

Protect from heat and direct solar radiation.

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Storage group 2A

7.3. Specific end use(s)

No information available.

! SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Respiratory protection

With adequate exhaust, ventilation is not necessary.

! Hand protection

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Chloroprene, 0,65 mm, 480 min. e.g. "Camapren", KCL GmbH, Email: Vertrieb@kcl.de

The selection of the suitable gloves does not only depend on different material, but also on further marks of quality and varies from manufacturer to manufacturer.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

Eye protection

safety goggles

Other protection measures

protective clothing

Appropriate engineering controls

Ensure good ventilation, if necessary exhaustion at the workplace.

! SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

aerosol

Colour

colorless to pale yellow

Odour

characteristic

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
Boiling temperature / boiling range	not determined				
Melting point / Freezing point	not determined				
Flash point	-100 °C				
Vapourisation rate	not determined				
Flammable (solid)	not determined				

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	Value	Temperature	at	Method	Remark
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature					Product is not self igniting.
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	not determined				
Vapour density	not determined				
Solubility in water		20 °C			soluble
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				

Oxidising properties

No information available.

Explosive properties

The product is not explosive, but the formation of explosive vapor / air mixtures is possible.

9.2. Other information

Refer to technical data sheet.

! SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

Stable under recommended storage conditions.

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

direct sunlight

Heat, open flames, sparks

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10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Regarding possible decomposition products refer to Section. 5

Thermal decomposition

Remark No decomposition if used as directed.

Additional information

As a general rule we recommend avoiding the contact with strong chemical reagents, such as acids, bases, reductors and oxidizers.

! SECTION 11: Toxicological information

11.1. Information on toxicological effects

Additional information

The product should be handled with the care usual when dealing with chemicals.

Further hazardous properties can not be excluded.

! SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information 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

! General regulation

Ecological dates are not available.

Do not allow uncontrolled leakage of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement.

This means that a distinction must be made between "wastes for recycling" and "wastes for disposal".

Particular aspects - in the main concerning delivery - are also governed by the Laender.

Acaroflo**Recommendations for packaging**

Totally emptied packaging may be taken for recycling.

Totally emptied packaging may be treated as household waste.

Disposal in accordance with local regulations.

Recommended cleansing agent

Water, if necessary together with cleansing agents.

General information

The waste code must be allocated in compliance with the EAK-regulation referring to the specific process and the sector.

! SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3. Transport hazard class(es)	2.1	2	2.1
14.4. Packing group	-	-	-
14.5. Environmental hazards	No	No	No

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

Land and inland navigation transport ADR/RID

Hazard label(s) 2.1

tunnel restriction code D

Classification code 5F

! SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

Water hazard class	1	following AwSV (Germany) slightly hazardous for water
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15.2. Chemical Safety Assessment

No information available.

! SECTION 16: Other information

Training advice

Refer to technical data sheet for further information.

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

The national special regulations have to be implemented by each user their own responsibility!

Please note: Our Material Safety Data Sheets have been prepared in accordance with EU directives, WITHOUT taking into account the specific national regulations for handling hazardous materials and chemicals.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.0

! Sources of key data used

Data sheets of the suppliers.

Umweltbundesamt Berlin (Water hazard classes)

Full text of the hazard phrases in section 3:

H220	Extremely flammable gas.
H302	Harmful if swallowed.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.