Safety data sheet according to 1907/2006/EC, Article 31

Revision: 15.07.2019

Printing date 15.07.2019

Version number 6

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

· 1.1 Product identifier

· Trade name: Blow-Up · Article number: 90501, 90503

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

No further relevant information available.

 Application of the substance / the mixture

Sealant

· 1.3 Details of the supplier of the safety data sheet

AKEMI chemisch technische Spezialfabrik GmbH Manufacturer/Supplier:

Tel. +49(0)911-642960 Lechstrasse 28 Fax. +49(0)911-644456 D 90451 Nürnberg e-mail info@akemi.de

· Further information obtainable from:

· 1.4 Emergency telephone

Laboratory

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH

Tel. +49(0)911-64296-59

Reachable during the following office hours: Monday – Thursday from 07:30 a.m. to 16:30 p.m.

Friday from 07:30 a.m. to 13:30 p.m.

+44 (171) 635 91 91 National Poison Inform. Centre Medical Toxicology Unit Avalonley Road London SE14 5ER

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008



number:

GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Store in a well-ventilated place. Keep cool. Storage:

Store in a well-ventilated place. Keep container tightly closed.

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

· 2.2 Label elements

· Labelling according to Regulation

(EC) No 1272/2008 Hazard pictograms

The product is classified and labelled according to the CLP regulation.

GHS02

 Signal word Danger

· Hazard-determining components

of labelling: Not applicable.

· Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if

heated.

· Precautionary statements P101 If medical advice is needed, have product container or label at

hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

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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 spray.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50

°C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/

national/international regulations.

· Additional information: Buildup of explosive mixtures possible without sufficient ventilation.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

 Dangerous components: 	Dangerous components:			
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane	Flam. Gas 1, H220 Press. Gas (Comp.), H280	12.5-25%	
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane	Flam. Gas 1, H220; Flam. Liq. 1, H224 Press. Gas (Comp.), H280	12.5-25%	
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane	Flam. Gas 1, H220; Flam. Liq. 1, H224 Press. Gas (Comp.), H280	12.5-25%	

Additional information:
 For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

• After skin contact: Generally the product does not irritate the skin.

Rinse with warm water.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a

doctor.

· After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

 4.2 Most important symptoms and effects, both acute and

and effects, both acute and

delayed Headache
Dizziness

Dizziness

· 4.3 Indication of any immediate medical attention and special

treatment needed No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol

resistant foam.

· For safety reasons unsuitable

extinguishing agents: Water with full jet

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5.2 Special hazards arising from

the substance or mixture In case of fire, the following can be released:

Carbon monoxide (CO)

Formation of toxic gases is possible during heating or in case of fire.

· 5.3 Advice for firefighters

· Protective equipment: Mount respiratory protective device.

· Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and

emergency procedures Ensure adequate ventilation Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage

system.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for

containment and cleaning up: Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about fire - and

Fumes can combine with air to form an explosive mixture. explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures

exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

· 7.2 Conditions for safe storage, including any incompatibilities

Storage:

· Requirements to be met by

storerooms and receptacles: Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

 Information about storage in one common storage facility:

Not required.

Further information about storage

conditions:

Protect from frost.

Keep container tightly sealed. Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

Additional information about

design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

106-97-8 butane

WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

 Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

General protective and hygienic

measures:

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Respiratory protection:

Protection of hands:

Use suitable respiratory protective device in case of insufficient ventilation.

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.

No chemical-protective gloves required.

Avoid direct contact with the chemical/ the product/ the preparation by

organisational measures.



Filter AX

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration

times, rates of diffusion and the degradation

 Material of gloves The selection of the suitable gloves does not only depend on 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 the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

· Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the

protective gloves and has to be observed.

Value for the permeation: Level ≤ 3

Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Appearance:

Form: Aerosol

Colour: According to product specification

Specific type Odour:

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· Odour threshold:	Not determined.		
· pH-value:	Not determined.		
 Change in condition Melting point/freezing point: Initial boiling point and boiling range 	Undetermined. : Not applicable, as aerosol.		
· Flash point:	Not applicable, as aerosol.		
· Flammability (solid, gas):	Not applicable.		
· Ignition temperature:	365 °C		
· Decomposition temperature:	Not determined.		
· Auto-ignition temperature:	Product is not selfigniting.		
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.		
• Explosion limits: Lower: Upper:	1.5 Vol % 10.9 Vol %		
· Vapour pressure at 20 °C:	3,500 hPa		
Density at 20 °C: Relative density Vapour density Evaporation rate	0.71 g/cm ³ Not determined. Not determined. Not applicable.		
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.		
· Partition coefficient: n-octanol/water:	Not determined.		
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.		
Solvent content: Organic solvents:9.2 Other information	50 % No further relevant information available.		

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

10.2 Chemical stability
 Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous

reactions No dangerous reactions known.

• 10.4 Conditions to avoid
• 10.5 Incompatible materials:

No further relevant information available.

No further relevant information available.

· 10.6 Hazardous decomposition

products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

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

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· LD/LC50 values relevant for classification:

75-28-5 isobutane

Inhalative LC50/4 h >50 mg/l (rat)

106-97-8 butane

Inhalative LC50/4 h 658 mg/l (rat)

· Primary irritant effect:

Skin corrosion/irritation
 Serious eye damage/irritation
 Respiratory or skin sensitisation

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

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Aspiration hazard
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
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SECTION 12: Ecological information

· 12.1 Toxicity

Aquatic toxicity: No further relevant information available.

· 12.2 Persistence and

degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No further relevant information available.
 No further relevant information available.

· Additional ecological information:

• General notes: Do not allow undiluted product or large quantities of it to reach ground water,

water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly

hazardous for water

· 12.5 Results of PBT and vPvB assessment

 $\begin{array}{ll} \cdot \ \underline{\mathsf{PBT:}} & \mathsf{Not} \ \mathsf{applicable.} \\ \cdot \ \underline{\mathsf{vPvB:}} & \mathsf{Not} \ \mathsf{applicable.} \end{array}$

• 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation Must not be disposed together with household garbage. Do not allow product to

reach sewage system.

 European 	· European waste catalogue		
20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS		
20 01 00	separately collected fractions (except 15 01)		
20 01 13*	solvents		
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED		
15 01 00	packaging (including separately collected municipal packaging waste)		
15 01 04	metallic packaging		

Uncleaned packaging:

Recommendation: Empty contaminated packagings thoroughly. They may be recycled after

thorough and proper cleaning.

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· Transport category

IMDG

· Tunnel restriction code

· Limited quantities (LQ)

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Not permitted as Excepted Quantity

2

D

1L

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· Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

UN 1950 AEROSOLS, 2.1 UN "Model Regulation":

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances -

ANNEX I None of the ingredients is listed. P3a FLAMMABLE AEROSOLS Seveso category

· Qualifying quantity (tonnes) for the

application of lower-tier

requirements 150 t

· Qualifying quantity (tonnes) for the

application of upper-tier

500 t requirements

· REGULATION (EC) No 1907/2006

Conditions of restriction: 3 ANNEX XVII

National regulations:

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· VOC EU 355.0 g/l

15.2 Chemical safety

assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

H220 Extremely flammable gas. Relevant phrases

H224 Extremely flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

· Recommended restriction of use refer to Technical Data Sheet (TDS)

· Department issuing SDS: Laboratory

· Contact: Dieter Zimmermann

Elke Hake

Fon ++49 (0)911 64296-59 @mail E.Hake@akemi.de

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de · Abbreviations and acronyms:

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European

Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1: Flammable gases - Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure - Compressed gas

Flam. Liq. 1: Flammable liquids - Category 1

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 \cdot * Data compared to the previous version altered.

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