

EPDM Surface Adhesive SprayBond 100

Safety Data Sheet

in accordance with 1907/2006/EC, Article 31

SECTION 1: Name of the substance or mixture and the company *

1.1 Product identifier

Product EPDM Surface Adhesive SprayBond 100
Container size 17 litres
UFI NK80-SOU9-K007-YMTA

1.2 Relevant identified uses of the substance or mixture and uses that are discouraged

No other relevant information available.

Use of the substance/mixture

Glue

1.3 Details of the supplier providing the safety data sheet

Hanse Baustoffe Handelsges. mbH & Co. KG
 Lily-Braun-Str. 46
 23843 Bad Oldesloe
 Germany
 Phone: +494531 8882244
 Fax: +494531 8882240
 E-mail: info@hanse-baustoffe.de
 www.hanse-baustoffe.de

1.4 Emergency number

Poison control center Berlin Charité: +4930 30686700 (advice in German and English), area of validity Germany and Austria

SECTION 2: Possible Hazards *

2.1 Classification of the substance or mixture

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



GHS02 Flame

Flam. Liq. 1 H224 Liquid and vapor extremely flammable.

.....



GHS09 Environment

Aquatic Acute1 H400 Very toxic to aquatic organisms.
 Aquatic Chronic1 H410 Toxic to aquatic life, with long-term effects.

.....



GHS07

Skin Irrit. 2 H315 causes skin irritation.
 Eye Irrit. 2 H319 Causes severe eye irritation.
 STOT SE 3 H336 May cause drowsiness and drowsiness.

2.2 Marking elements

Marking according to Regulation (EC) No. 1272/2008

The product is classified and labelled in accordance with the CLP Regulation.

• Hazard pictograms



GHS02 GHS07 GHS09

• **Signal word** Danger

• **Hazard-determining components for labelling:**

Cyclohexane

Naphtha (petroleum), hydrogen-treated light

Acetone

• **Warnings**

H224 Liquid and vapor extremely flammable.

H315 causes skin irritation.

H319 Causes severe eye irritation.

H336 May cause drowsiness and drowsiness.

H410 Very toxic to aquatic life with long-term effects.

• **Safety**

P210 Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition.

No smoking.

P233 Keep container tightly closed.

P261 Avoid inhalation of dust/smoke/gas/mist/vapour/aerosol.

P273 Avoid release into the environment.

P280 Wear protective gloves/eye protection.

P305+P351+P338 IN CASE OF CONTACT WITH EYES: Rinse gently with water for a few minutes. Remove any contact lenses if possible. Continue to rinse.

P312 If you feel unwell, call a POISON CENTER/doctor.

P403+P235 Store in a well-ventilated place. Keep container tightly closed.

P501 Disposal of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Contains zinc bis(dibutylthiocarbamate). May cause allergic reactions.

For commercial users only.

Container is under pressure. Protect from sunlight and temperatures above 50 °C. Do not open or burn by force even after use.

2.3 Other hazards

not applicable

Results of PBT and vPvB assessment Not applicable.

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/ingredient information *

3.2 Mixtures

Description: Mixture of the following substances with harmless admixtures.

Hazardous ingredients

CAS: 115-10-6 EINECS: 204-065-8 Reg.nr: 01-2119472128-37	Dimethyl ether ----- ☠ Flam. Gas 1, H220; Flam. Liq. 1, H224; Press. Gas C, H280	20-<50%
CAS: 110-82-7 EINECS: 203-806-2 Reg.nr.: 01-2119463273-41	Cyclohexane ----- ☠ Flam. Liq. 2, H225; ☠ Asp. Tox. 1, H304; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Skin Irrit. 2, H315; STOT SE 3, H336	20-<40%
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrogen-treated light ----- ☠ Flam. Liq. 2, H225; ☠ Asp. Tox. 1, H304; ☠ Aquatic Chronic 2, H411; ☠ Skin Irrit. 2, H315; STOT SE 3, H336	10-<20%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone ----- ☠ Flam. Liq. 2, H225; ☠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	10-<20%
CAS: 136-23-2 EINECS: 205-232-8 Reg.nr.: 01-2119535161-51	Zinc bis(dibutyldithiocarbamate) ----- ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<0.5%

Additional Notes:

"NAFTA" classified and labelled according to Directive 67/548/EEC, Note P [contains benzene(CAS: 71-43-2) <0.1wt%] The wording of the hazard statements quoted can be found in Section 16.

SECTION 4: First Aid Measures *
4.1 Description of first aid measures
General information

Self-protection of the first aider.

Remove contaminated clothing. Seek medical advice in case of persistent symptoms or in case of doubt. **After inhalation**

In case of unconsciousness, storage and transport in a stable lateral position.

If the victim is not breathing: If you perform mouth-to-mouth or mouth-to-nose resuscitation, notify the emergency doctor immediately

After skin contact

Wash off immediately with soap and water and rinse well.

After eye contact

Rinse the eyes with running water for several minutes with the slit open.

Rinse eyes under running water for several minutes with the eyelid slit open and consult a doctor.

After swallowing

Rinse mouth with water

If symptoms persist, consult a doctor.

4.2 Main acute and delayed symptoms and effects

No other relevant information available.

4.3 Indications of immediate medical assistance or special treatment

No other relevant information available.

SECTION 5: Fire-fighting measures *

5.1 Extinguishing agents

Suitable extinguishing agents

CO₂, extinguishing powder or water spray. Larger fire with water spray or foam.

Extinguishing agents unsuitable for safety reasons

Water in a full stream

5.2 Specific hazards posed by the substance or mixture

Under certain fire conditions, traces of toxic substances cannot be ruled out, such as:

Carbon monoxide (CO)

5.3 Instructions for firefighting

Special protective equipment

Wear ambient air-independent breathing apparatus.

Wear a full protective suit.

SECTION 6: Accidental Release Measures *

6.1 Personal precautions, protective equipment and procedures to be followed in emergencies

Wear protective equipment. Keep unprotected people away.

6.2 Environmental protection measures

Do not allow to enter the sewer system or water bodies.

Prevent penetration into sewers, pits and basements.

In the event of intrusion into water bodies or sewers, notify the competent authorities.

Do not allow to enter the sewer system/surface water/groundwater.

6.3 Methods and material for retention and purification

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust). Dispose of contaminated material as Section 13 waste.

Provide adequate ventilation.

6.4 Reference to Other Sections

For information on safe handling, see section 7.

For information on personal protective equipment, see section 8.

For information on disposal, see Section 13.

SECTION 7: Handling and Storage *

7.1 Protective measures for safe handling

Provide good ventilation/extraction in the workplace.

Open and handle containers with care.

Avoid aerosol formation.

Notes on fire and explosion protection

Do not spray against flame or on glowing object.

Keep ignition sources away - do not smoke.

From 1 July 2003, all organisations within the EU where there is a risk of explosion are to operate in compliance with the new ATEX 137 Directive (Directive 1999/92/EC). This covers all situations in which people are exposed

to an explosion risk. The Directive does not regulate the use of equipment in an explosive atmosphere. However, this use of equipment is regulated by Directive 94/9/EC (ATEX 95).

7.2 Conditions for safe storage taking into account incompatibilities

Storage

Requirements for storage rooms and containers: Store in a cool place.

Storage instructions: Not required.

Further information on storage conditions:

Do not seal the container gas-tight.

Keep container tightly closed.

Store in well-sealed containers in a cool and dry place.

Protect from heat and direct sunlight.

Storage hazard class (VCI) 2 A

Classification according to the Industrial Safety Ordinance (BetrSichV): Flammable liquids

GISCode S1 Highly solvent-based installation materials, free of aromatics and methanol

7.3 Specific End Applications

No other relevant information available.

SECTION 8: Limitation and monitoring of exposure/Personal protective equipment *

Additional information on the design of technical installations: No further information, see section 7.

8.1 Parameters to Monitor

Components with work-related limit values to be monitored:	
115-10-6 Dimethyl Ether	
AGW (Germany)	Long-term value: 1900 mg/m ³ , 1000 ml/m ³ 8(II); DFG, EU
IOELV (European Union)	Long-term value: 1920 mg/m ³ , 1000 ml/m ³
MAK (Austria)	Short-term value: 3820 mg/m ³ , 2000 ml/m ³ Long-term value: 1910 mg/m ³ , 1000 ml/m ³
110-82-7 Cyclohexane	
AGW (Germany)	Long-term value: 700 mg/m ³ , 200 ml/m ³ 4(II); DFG, EU
IOELV (European Union)	Long-term value: 700 mg/m ³ , 200 ml/m ³
MAK (Austria)	Short-term value: 2800 mg/m ³ , 800 ml/m ³ Long-term value: 700 mg/m ³ , 200 ml/m ³
67-64-1 Acetone	
AGW (Germany)	Long-term value: 1200 mg/m ³ , 500 ml/m ³ 2(I); AGS, DFG, EU, Y
IOELV (European Union)	Long-term value: 1210 mg/m ³ , 500 ml/m ³
MAK (Austria)	Short-term value: 4800 mg/m ³ , 2000 ml/m ³ Long-term value: 1200 mg/m ³ , 500 ml/m ³
Ingredients with biological limits:	
110-82-7 Cyclohexane	
BGW	150 mg/g creatinine Test material: urine Sampling time: in case of long-term exposure: at the end of the shift after several previous shifts, end of exposure or end of the shift Parameters: 1,2-cyclohexanediol (after hydrolysis)

67-64-1 Acetone	
BGW	50 mg/l test material: urine Sampling time: end of exposure or end of shift Parameters: Acetone

Additional notes: The lists valid at the time of preparation served as a basis.

8.2 Limiting and monitoring exposure

Appropriate technical control equipment No further information, see section 7.

· **Individual protective measures, such as personal protective equipment**

· **General protective and hygiene measures:**

Clean contaminated clothing by vacuuming, do not blow off or brush.

The usual precautions when handling chemicals must be observed.

Keep away from food, drink and feed.

Remove soiled, soaked clothing immediately.

Wash your hands before breaks and at the end of work.

Do not inhale gases/vapours/aerosols.

Avoid contact with eyes and skin.

Do not carry product-soaked cleaning rags in your trouser pockets.

· **Respiratory**

In case of insufficient ventilation, respiratory protection.

The oxygen content of the air we breathe must be sufficient, i.e. > 17%

In case of short-term or low load, breathing filter device; in the event of intensive or prolonged exposure, self-contained

Use a breathing apparatus.

Filter AXP3(EN371)

· **Guard:**



Schutzhandschuhe

Butyl rubber gloves (EN374, EN388:4101).

Permeation EN374-3: 2003 (minutes) > 480 minutes

Selection of glove material taking into account breakthrough times, permeation rates and degradation.

When wearing protective gloves, disposable cotton undergloves are recommended. However, these undergloves must be thrown away after each use to prevent potential hazards from absorbed product.

Glove material

The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer. Since the product is a preparation of several substances, the resistance of glove materials cannot be predicted in advance and must therefore be checked before use.

Penetration time of glove material

The exact breakthrough time must be found out from the protective glove manufacturer and adhered to.

Gloves made of the following materials are suitable for continuous contact: Butyl rubber

Gloves made of the following materials are suitable for continuous contact of a maximum of 15 minutes:

Butyl rubber

Eye protection/face protection:



Dichtschließende Schutzbrille

Safety Glasses(EN166)

Body Protection: Protective Work Clothing (EN 340, 463, 468, 943-1, 943-2)

SECTION 9: Physical and Chemical Properties *

9.1 Information on basic physical and chemical properties

General information	
Appearance:	
Form:	Liquid
Color:	Tan
Smell:	Solvent-like
Odour threshold:	Not definitely.
pH:	Not applicable.
State	
Melting point/freezing point:	Not definitely.
Boiling point or beginning and boiling range	55.8-56.6 °C (67-64-1 acetone)
Flash point:	-42 °C (115-10-6 dimethyl ether)
Ignition temperature:	Not definitely.
Decomposition Temperature:	Not definitely.
Autoignition temperature:	The product is not self-igniting.
Explosive properties:	The product is not explosive, however, the formation is explosive vapour/air mixtures possible.
Explosion limits:	
Inferior:	1.3% by volume (110-82-7 cyclohexane)
Upper:	18.6% by volume (115-10-6 dimethyl ether)
Vapor pressure at 20 °C:	5,200 hPa (115-10-6 dimethyl ether)
Density at 20 °C:	0.7911 g/cm ³
Vapor Density	Not definitely.
Evaporation speed	Not definitely.
Solubility in/Miscibility	
with water:	immiscible or slightly miscible
Distribution coefficient:	
n-Octanol/Water:	Not definitely.
Viscosity:	
Dynamic at 20 °C:	400 mPas
Solvent content:	
Organic solvents:	100,6 %
VOC (EC)	796.2 g/l
VOC% (EC)	100,64 %
Solid content:	25,1 %
Information on physical hazard classes:	
Flammable liquids	Liquid and vapor extremely flammable.

9.2 Other information

No other relevant information available.

SECTION 10: Stability and Reactivity

10.1 Reactivity

No other relevant information available.

10.2 Chemical Stability

Thermal decomposition/conditions to be avoided

No decomposition when used as intended.

10.3 Possibility of Dangerous Reactions

No dangerous reactions known.

10.4 Conditions to Avoid

No other relevant information available.

10.5 Incompatible materials

Oxidizing agent

10.6 Dangerous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information *

11.1 Information on toxicological effects

The product has not been tested. The statements below were derived from the properties of the individual ingredients.

Acute toxicity

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

Classification-relevant LD/LC50 values:		
115-10-6 Dimethyl Ether		
Inhalation	LC50, 4h	308 mg/l (Council)
110-82-7 Cyclohexane		
Oral	LD50	>5,000 mg/kg (Council)
Dermal	LD50	>2,000 mg/kg (Rabbit)
64742-49-0 Naphtha (petroleum), hydrotreated light		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
67-64-1 Acetone		
Oral	LD50	>5,000 mg/kg (Council)
Dermal	LD50	>5,000 mg/kg (Rabbit)
Inhalation	LD50	39 mg/l (Council)
136-23-2 Zinc bis(dibutyl dithiocarbamate)		
Oral	LD50	>2,000 mg/kg (Council)

Primary irritant effect:

Corrosive/irritating effect on the skin

Causes skin irritation.

Severe eye damage/irritation

Causes severe eye irritation

Sensitization of the respiratory tract/skin

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

CMR effects (carcinogenic, mutagenic and toxic to reproduction)

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Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Specific target organ toxicity with single exposure

May cause drowsiness and lightheadedness.

Specific target organ toxicity with repeated exposure

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

Risk of aspiration

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

11.2 Information on other hazards

Endocrine-disrupting properties

None of the ingredients are included.

SECTION 12: Environmental Claims *

12.1 Toxicity

Aquatic toxicity:	
110-82-7 Cyclohexane	
LC50, 96 h	4.53 mg/l (Fathered minnow, Pimepheales promelas)
EC50, 48h	0.9 mg/l (Daphnia magna)
EC50, 72h	3.4 mg/l (Algae)
67-64-1 Acetone	
LC50, 96h	>5,000 mg/l (Fish)
EC50, 48h	39 mg/l (Daphnia magna)

12.2 Persistence and Degradability

No other relevant information available.

12.3 Bioaccumulation potential

115-10-6 Dimethyl Ether	
log Kow	0.1 (no species defined) Recommended value of the LOG KOW database

12.4 Mobility in the ground

No other relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine Disrupting Properties

No other relevant information available.

12.7 Other Adverse Effects

Remark: Toxic to fish.

Other notes:

Ecotoxicological data have not been specifically determined for this product. The information given is based on knowledge of the ingredients and ecotoxicology of similar products.

Further ecological information:
General information:

Water hazard class 2 (self-classification): clearly hazardous to water

Do not allow to enter groundwater, water bodies or sewers.

Drinking water hazard even if small quantities leak into the underground.

In waters, it is also toxic to fish and plankton.

SECTION 13: Disposal Instructions *
13.1 Waste Treatment Procedures
Recommendation

Must not be disposed of together with household waste. Do not let it get into the sewer system.

European Waste Catalogue

Discuss the exact waste code with the disposal company.

Uncleaned packaging
Recommendation

Disposal in accordance with official regulations.

SECTION 14: Transport details *
14.1 UN number

ADR, IMDG, IATA UN3501

14.2 Proper UN shipping designation

COR 3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.E.S. (DIMETHYL ETHER, CYCLOHEXANE)

IMDG, IATA CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETHYL ETHER, CYCLOHEXANE)

14.3 Transport hazard classes
COR


Class 2 8F Gases

Hazard label 2.1

IMDG, IATA


Class 2 Gases

Label 2.1

14.4 Packaging Group

ADR, IMDG, IATA not applicable

14.5 Environmental hazards

Marine pollutant Yes

Special marking (ADR) Symbol (Fish and Tree)

14.6 Special precautions for the user

Users	Attention: Gases
Kemler number	23
EMS Number	F-D,S-U
Stowage Category	D
Stowage Code	SW2 Clear of living quarters.

14.7 Bulk cargo transport in accordance with Annex II of the MARPOL Convention and in accordance with the IBC Code

Not applicable.

Transport/further information:

Quantity limitations	On passenger aircraft/rail: Forbidden On cargo aircraft only: 75 kg
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COR:

Limited quantity (LQ)	0
Exempted Quantities (EQ)	Code: E0 Not authorised in exempt quantities
Promotion category	2
Tunnel Restriction Code	B/D

IMDG:

Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity

UN "Model Regulation"	UN 3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETHYL ETHER, CYCLOHEXANE), 2.1, HAZARDOUS TO THE ENVIRONMENT
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SECTION 15: Legislation *

15.1 Safety, health and environmental protection rules/specific legislation for the substance or mixture

Directive 2012/18/EU

Hazardous substances listed by name - ANNEX I None of the ingredients are included.

Seveso Category

P5a FLAMMABLE LIQUIDS

E1 Hazardous to water

- Quantity threshold (in tonnes) for use in establishments of the lower class 10 t
- Quantity threshold (in tonnes) for use in establishments of the upper class 50 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Restriction conditions: 3, 57
- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment

Electronic Equipment – Annex II

None of the ingredients are included.

- ANNEX I - RESTRICTED EXPLOSIVES PRECURSORS (UPPER CONCENTRATION LIMIT FOR EXPLOSIVES an authorisation in accordance with Article 5(3)) None of the ingredients are included.

· ANNEX II - REPORTABLE EXPLOSIVES PRECURSORS

67-64-1 Acetone

- Regulation (EC) No 273/2004 on drug precursors

67-64-1 Acetone

- Regulation (EC) No 111/2005 laying down rules for the control of trade in

Drug exchanges between the Community and third countries

67-64-1 Acetone

National provisions:

Technical instructions for air:

Class	Share in %
NK	60 - <80

Water hazard class: WGK 2 (self-classification): clearly hazardous to water.

Other Regulations, Restrictions and Prohibition Ordinances

The product is subject to Annex 2 of the Chemicals Prohibition Ordinance (ChemVerbotsV) - Requirements relating to the dispensing

15.2 Chemical safety assessment

A chemical safety assessment was not carried out.

SECTION 16: Other information *

The information is based on the current state of our knowledge, but it does not represent an assurance of product characteristics and does not establish a contractual legal relationship.

Relevant sentences

- H220 Extremely flammable gas.
- H224 Liquid and vapor extremely flammable.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; can explode when heated.
- H304 May be fatal if swallowed and enters the respiratory tract.
- H315 causes skin irritation.
- H317 May cause allergic skin reactions.
- H319 Causes severe eye irritation.
- H335 May irritate the respiratory tract.
- H336 May cause drowsiness and drowsiness.
- H400 Very toxic to aquatic organisms.
- H410 Very toxic to aquatic life with long-term effects.
- H411 Toxic to aquatic life, with long-term effects.
- EUH066 Repeated contact may result in brittle or cracked skin.

Abbreviations and acronyms:

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- 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)
- VOC: Volatile Organic Compounds (United States, EU)
- 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 1A
Press. Gas (Comp.): Gases under pressure – compressed gas
Flam. Liq. 1: Flammable liquids – Category 1
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin irritating/corrosive effect – category 2
Eye Irrit. 2: Severe eye damage/eye irritation – Category 2
Skin Sens. 1: Skin Sensitization – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to water - Acutely hazardous to water - Category 1
Aquatic Chronic 1: Hazardous to water - long-term hazardous to water - Category 1
Aquatic Chronic 2: Hazardous to water - long-term hazardous to water - Category 2

Sources

The classification corresponds to the current EC lists, but is supplemented with data from specialist publications and data from the company.

** Data changed compared to the previous version*

DISCLAIMER

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