

SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006, Article 31

BRK03

One-component polyurethane adhesive foam for insulation panels, F fire resistance class according to EN 13501-1, with plastic nozzle and disposable glove

Manufacturer: Tecfi S.p.A. - S.S. Appia, km 193 - 81050 Pastorano (CE), Italy - rdc@tecfi.it

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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

UFI: D220-306S-D00V-J7WY

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

One-component polyurethane adhesive foam - hand held

1.3. Details of the supplier of the safety data sheet

Company name

Tecfi S.p.A.

Address

S.S.Appia km 193

81050 Pastorano (CE) - Italia - tel. 0823 88 3338 - fax 0823 - 883260

e-mail

rdc@tecfi.it

1.4. Emergency telephone number

Osp. NIGUARDA CA' GRANDA – Milano 02/66101029
CAV Policlinico "A. Gemelli" - Roma 06/3054343
Osp. "A. Cardarelli" - Napoli 081/7472870

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

| | | |
|-------------------|-----------|--|
| Aerosol 1 | H222-H229 | Extremely flammable aerosol. Pressurised container: May burst if heated. |
| Acute Tox. 4 | H332 | Harmful if inhaled. |
| Skin Irrit. 2 | H315 | Causes skin irritation. |
| Eye Irrit. 2 | H319 | Causes serious eye irritation. |
| Resp. Sens. 1 | H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin Sens. 1 | H317 | May cause an allergic skin reaction. |
| Carc. 2 | H351 | Suspected of causing cancer. |
| Lact. | H362 | May cause harm to breast-fed children. |
| STOT SE 3 | H335 | May cause respiratory irritation. |
| STOT RE 2 | H373 | May cause damage to organs through prolonged or repeated exposure. |
| Aquatic Chronic 4 | H413 | May cause long lasting harmful effects to aquatic life. |

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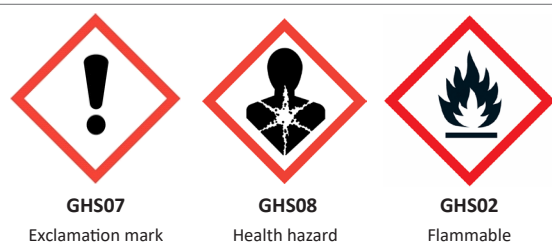
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2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

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



Signal word Danger

Hazard-determining components of labelling:
diphenylmethanediisocyanate, isomers and homologues
alkanes, C14-17, chloro

Hazard statements:

| | |
|------------------|--|
| H222-H229 | Extremely flammable aerosol. Pressurised container: May burst if heated. |
| H332 | Harmful if inhaled. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction. |
| H351 | Suspected of causing cancer. |
| H362 | May cause harm to breast-fed children. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Precautionary statements:

| | |
|-----------------------|---|
| P102 | Keep out of reach of children. |
| P201 | Obtain special instructions before use. |
| 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 vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection. |
| P284 | In case of inadequate ventilation wear respiratory protection (a protective mask with an appropriate gas filter - i.e. type A1 according to standard EN 14387). |
| P302+P352 | IF ON SKIN: Wash with plenty of water/soap. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| P501 | Dispose of container in accordance with local/regional/national/international regulation. |

Additional information:

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. As from 24 August 2023 adequate training is required before industrial or professional use.
EUH204 Contains isocyanates. May produce an allergic reaction.

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2.3. Other hazards

Results of PBT and vPvB assessment Not applicable

PBT

CAS: 85535-85-9 alkanes, C14-17, chloro

vPvB

CAS: 85535-85-9 alkanes, C14-17, chloro

3. Composition/information on ingredients

3.1. Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

| IDENTIFICATION | X=CONC. % | CLASSIFICATION 1272/2008 (CLP) |
|--|-----------|--|
| difenilmetanodiisocianato, isomeres and homologues CAS: 9016-87-9 | 25-30% | <p>⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5% Eye Irrit. 2; H319: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0,1 % STOT SE 3; H335: C ≥ 5 %</p> |
| isobutane CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-01-8 Reg.nr.: 01-2119485395-27-xxxx | 10-15% | <p>⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280</p> |
| dimethyl ether CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37 | 1-10% | <p>⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280</p> |
| propane CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-xxxx | 1-10% | <p>⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280</p> |
| alkanes, C14-17, chloro CAS: 85535-85-9 Index number: 602-095-00-X EINECS: 287-477-0 Reg.nr.: 01-2119519269-33 | 1-5% | <p>⚠ Acute Tox. 2, H330; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362, EUH066 PBT; vPvB</p> |

SVHC

CAS: 85535-85-9 alkanes, C14-17, chloro

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

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4. First aid measures

4.1 Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents:

CO₂, sand, extinguishing powder. Do not use water.

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Protective equipment: Mouth respiratory protective device.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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 section 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

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.

7. Handling and storage

7.1. Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.
Store only in the original receptacle.
Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

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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8. Exposure controls/personal protection

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

IOELV Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³

CAS: 85535-85-9 alkanes, C14-17, chloro

IOELV Short-term value: 48 mg/m³, 2.4 ppm
Long-term value: 6 mg/m³, 0.3 ppm

CAS: 115-10-6 dimethyl ether

IOELV Long-term value: 1920 mg/m³, 1000 ppm

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

8.2. Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of inadequate ventilation in small enclosed spaces wear respiratory protection, a protective mask (EN ISO 140: 1999/AC2000) with an appropriate gas filter (i.e. type A1 according to standard EN 14387:2004).

Hand protection



Protective gloves

Protective gloves according to EN ISO 374-4:2020.

Material of gloves Glove material LDPE, min. thickness 0,06 mm

Penetration time of glove material Minimum breakthrough time >10 minutes (Level 1)

Eye/face protection



Tightly sealed goggles

Wear airtight protective goggles according to EN ISO 16321-1:2022

Body protection: Protective work clothing according to EN ISO 13688:2013

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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| General Information | |
| Physical state | Aerosol |
| Colour | According to product specification |
| Odour | Characteristic |
| Odour threshold | Not determined |
| Melting point/freezing point | Undetermined |
| Boiling point or initial boiling point and boiling range | ≥-44.5 °C (CAS: 74-98-6 propane) |
| Flammability | Not applicable |
| Lower and upper explosion limit | |
| Lower | ≥1.8 Vol % (CAS: 75-28-5 isobutane) |
| Upper | ≤8.5 Vol % (CAS: 75-28-5 isobutane) |
| Flash point | Not applicable, as aerosol. |
| Auto-ignition temperature | ≥235 °C (CAS: 115-10-6 dimethyl ether) |
| Decomposition temperature | Not determined |
| ph | Not determined |
| Viscosity | |
| Kinematic viscosity | Not determined |
| Dynamic | Not determined |
| Solubility | |
| water | Fully miscible. |
| Partition coefficient n-octanol/water (log value) | Not determined |
| Vapour pressure at 20 °C | ≤3,000 hPa (CAS: 75-28-5 isobutane) |
| Density and/or relative density | |
| Density at 20 °C | ≥1.10639-≤1.12257 g/cm ³ |
| Relative density | Not determined |
| Vapour density | Not determined |
| 9.2 Other information | |
| Appearance | |
| Form | Aerosol |
| Important information on protection of health and environment, and on safety. | |
| Ignition temperature | Product is not selfigniting. |
| Explosive properties | Not determined |
| Solvent content | |
| VOC (CE) | 24.90 % |
| Change in condition | |
| Evaporation rate | Not applicable |

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| Information with regard to physical hazard classes | |
|---|--|
| Explosives | Void |
| Flammable gases | Void |
| Aerosol | Extremely flammable aerosol. Pressurised container: May burst if heated. |
| Oxidising gases | Void |
| Gases under pressure | Void |
| Flammable liquids | Void |
| Flammable solids | Void |
| Self-reactive substances and mixtures | Void |
| Pyrophoric liquids | Void |
| Pyrophoric solids | Void |
| Self-heating substances and mixtures | Void |
| Substances and mixtures, which emit flammable gases in contact with water | Void |
| Oxidising liquids | Void |
| Oxidising solids | Void |
| Organic peroxides | Void |
| Corrosive to metals | Void |
| Desensitised explosives | Void |

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

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

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11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if inhaled.

LD/LC50 values relevant for classification:

| N. CAS | Chemical name | | | | |
|----------|----------------|-------------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 115-10-6 | dimethyl ether | | | | |
| | Inhalative | LC50/4 h 308 mg/l | rat | | |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

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

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

May cause harm to breast-fed children.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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

11.2. Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

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12. Ecological information

12.1. Toxicity

Aquatic toxicity: No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

Not applicable.

| | |
|-----------------|-------------------------|
| PBT | |
| CAS: 85535-85-9 | alkanes, C14-17, chloro |
| vPvB | |
| CAS: 85535-85-9 | alkanes, C14-17, chloro |

12.6. Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7. Other adverse effects

Remark: Toxic for fish

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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 waste catalogue

| | |
|-----------|---|
| 08 05 01* | waste isocyanates |
| 16 05 04* | gases in pressure containers (including halons) containing hazardous substances |
| 15 01 10* | packaging containing residues of or contaminated by hazardous substances |

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

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14. Transport information

14.1. UN number or ID number

ADR, IMDG, IATA UN1950

14.2. UN proper shipping name

ADR 1950 AEROSOLS

14.3. Classi di pericolo connesso al trasporto:

ADR

Class 2.1
Label 2.1

IMDG, IATA

Class 2.1 Gas
Label 2.1

14.4. Packing group

ADR, IMDG, IATA Void

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user

Warning: Gases
EMS Number: F-D,S-U

14.7 Maritime transport in bulk according to IMO instruments

Transport/Additional information:

ADR

Limited quantities (LQ) 1l

UN "Model Regulation": UN1950, AEROSOL, 2.1

15. Regulatory information

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

COMMISSION REGULATION (EU) 2020/878

amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Directive 2012/18/EU

- Named dangerous substances - ANNEX I
- Seveso category
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

None of the ingredients is listed.
P3a FLAMMABLE AEROSOLS

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

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REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS

(Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

CAS: 85535-85-9 alkanes, C14-17, chloro

15.2. Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. Other information

Relevant phrases

- H220 Extremely flammable gas.
- H280 Contains gas under pressure; may explode if heated.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H362 May cause harm to breast-fed children.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- EUH204 Contains isocyanates. May produce an allergic reaction.

Abbreviations and acronyms:

- Flam. Gas 1A: Flammable gases – Category 1A
- Aerosol 1: Aerosols – Category 1
- Press. Gas (Comp.): Gases under pressure – Compressed gas
- Acute Tox. 2: Acute toxicity – Category 2
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Resp. Sens. 1: Respiratory sensitisation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- Carc. 2: Carcinogenicity – Category 2
- Lact.: Reproductive toxicity – effects on or via lactation
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4