

EC-Safety Data Sheet conforming to 1907/2006/EG, Article 31

Penetrant B Spray

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

1.1 Product identifier	Penetrant B Spray
1.2 Relevant identified uses of the substance or mixture and uses advised against	-
1.3 Details of the supplier of the safety data sheet	MOLYDUVAL GmbH * Halskestr.6 * 40880 Ratingen * Germany * +49 (2102) 9757-00 * safety@molyduval.com
1.4 Emergency telephone number	+49 (2102) 9757-20 (24h)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture 1272/2008/EG	hazard statements / category of danger / Hazard class H222 / Aerosol 1 / Extremely flammable aerosol. H315 / Skin Irrit. 2 / Causes skin irritation. H336 / STOT SE 3 / May cause drowsiness and dizziness. H411 / Aqua Chron. 2 / Toxic to aquatic life with long lasting effects. The product is classified acc to 1272/2008/EG
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2.2 label elements



signal word: Danger
GHS02 Extremely flammable
GHS07 Irritation
GHS09 Environmentally hazardous
H222 Extremely flammable aerosol.
H315 Causes skin irritation.
H336 May cause drowsiness and dizziness.
H411 Toxic to aquatic life with long lasting effects.
P102 Keep out of reach of children.
P210 Keep away from heat, sparks, open flames, hot surfaces and other sources of ignition.
No smoking.
P211 Do not spray on an open flame or other ignition source.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261A Avoid inhalation of aerosol.
P271 Use only outdoors or in well-ventilated areas.
P273 Avoid release to the environment.

2.3 Other hazards	In case of insufficient ventilation and / or through use, explosive / highly flammable mixtures.
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SECTION 3: Composition - Information on Ingredients

3.2 Mixtures	Mixture of substances listed below with nonhazardous additions. ----- 20,0 % - 40,0 % Naphtha (petroleum), hydrotreated light EG: 265-151-9 H336 STOT SE 3 / H411 Aqua Chron. 2 (MOCLA1) ----- 15,0 % - 25,0 % Propane EG: 200-827-9 CAS: 74-98-6 H220 Flam. Gas 1 / H280 (MOCLGASP) ----- 15,0 % - 25,0 % Butan EG: 203-448-7 CAS: 106-97-8 H220 Flam. Gas 1 / H280 (MOCLGASB) ----- 10,0 % - 20,0 % 2-butoxyethanol EG: 203-905-0 Reach: 01-2119475108-36 H302 Acute Tox. 4 / H312 / H315 Skin Irrit. 2 / H319 Eye Irrit. 2 / H332 Acute Tox. 4 (MOADOABG)
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SECTION 4: First Aid Measures

General Instructions	Remove victim from danger zone, without exposing yourself to any personal risk. Remove wetted clothing and shoes and clean items before using them again.
After Inhalation	Remove exposed person to fresh air.
After Skin Contact	Wash with plenty of soap and plenty of water. Consult a doctor if skin irritation persists.
After Eye Contact	Long lasting rinse Rinse opened with water, if necessary, use eye wash. If symptoms persist, seek medical advice.
After Ingestion	Rinse mouth and drink plenty of water. Do not induce vomiting. If symptoms persist, seek medical advice.
Most important symptoms and effects, both acute and delayed	Product may cause headache, dizziness, nausea, loss of consciousness and dry skin. Disorders of the central nervous system are possible as well. Also see item 11.
Indication of any immediate medical attention and special treatment needed	Prolonged and/or repeated exposure may cause skin discomfort and inflammation (dermatitis). In case of swallowing followed by vomiting, material may be aspirated into the lungs - possibly leading to pulmonary edema (wetlung).

SECTION 5: Fire-Fighting Measures

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- 5.1 Extinguishing media Suitable extinguishing media : Water spray. Foam. Dry powder. Carbon dioxide (CO₂).
Unsuitable extinguishing media : Strong water jet.
- 5.2 Special hazards arising from the substance or mixture In case of a fire, there may arise poisonous (CO, CO₂ and other organic gases) gases.
Run-off does not allow to enter drains or watercourses by firefighters.
- 5.3 Advice for firefighters If necessary, use in case of fire, self contained breathing apparatus. Collect contaminated firefighting water separately, must not be discharged into drains. Fire residues and contaminated firefighting water must be disposed of in accordance with local regulations.
Extinguishing measures to the surroundings. Standard procedure for chemical fires.
Extinguishing measures to the surroundings.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear personal protective equipment. Avoid contact with eyes and skin.
- 6.2 Special Environmental Protection Avoid entering into drains, water courses or soil. Fire or police agree, if the product has escaped into a water course or sewage system, or has contaminated the soil and plants.
- 6.3 Methods and material for containment and cleaning up Use oil sucking materials f.e chemical absorbents.
- 6.4 Reference to other sections n.a.

SECTION 7: Handling and Storage

- 7.1 Precautions for safe handling Container under pressure. Do not expose to temperatures exceeding 50°C (f.e. sunlight). Do not open violently.
- 7.2 Conditions for safe storage, including any incompatibilities Storage according to TRG 300. To be stocked cool and dry, protect from sunlight and do not expose to temperatures exceeding 50 degree C. Smoking prohibited.
Storage Class VCI: 2 B

SECTION 8: Limiting and supervising the exposure / personal protection

- 8.1 Control parameters
Propane EG: 200-827-9 CAS: 74-98-6:
Propan 1,800 mg/m³, Cat. 4, MAK

Butan EG: 203-448-7 CAS: 106-97-8:
n-Butan (<0,01% Butadien -1,3) 1,928 mg/m³, Cat. 4, MAK
AGW: 2400 mg/m³, 1000 ml/m³, 4(II);DFG

Naphtha (petroleum), hydrotreated light EG: 265-151-9:
MAK 600 mg/m³, 170 ml/m³ Gruppe 5, Spitzenbegrenzung Kat.4

2-butoxyethanol EG: 203-905-0 Reach: 01-2119475108-36:
TRGS 900 (D) Wert : 20 ppm / 98 mg/m³ Kategorie : 4(II) Bemerkungen : H,Y
Versionsdatum : 02.04.2014
TRGS 903 (D) Parameter : Butoxyessigsäure / Urin (U) / Bei Langzeitexposition: nach mehreren vorangegangenen Schichten Wert : 100 mg/l Versionsdatum : 31.03.2004
STEL (EC) Wert : 50 ppm / 246 mg/m³ Bemerkungen : H Versionsdatum : 08.06.2000
TWA (EC) Wert : 20 ppm / 98 mg/m³ Bemerkungen : H Versionsdatum : 08.06.2000
- 8.2 Limitation and supervision of exposure - Personal Protective Equipment
Respiratory protection: Not required, except in case of aerosol formation. Avoid inhalation of vapors. Use respiratory protective device against the effects of fumes / dust / aerosol.
Combination filter, eg. As DIN 3181 ABEK
Hand protection: Gloves - oil resistant. Glove material: nitrile rubber, butyl rubber or fluoro rubber. Recommended thickness: = 0,4 mm. Penetration time of glove material Value for the permeation: Level = 480 min. The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of breakthrough time is recommended.
Eye protection: Safety glasses
Hygiene measures: Wash hands before breaks and immediately after handling the product.
Keep working clothes separately. Take off all contaminated clothing immediately.
Protective measures: Handle in accordance with good industrial hygiene and safety practice.
Body protection: work clothes
- 8.3 Delimitation and monitoring of environmental exposure Do not discharge into surface water or drains

SECTION 9: Physical and Chemical Properties

- Appearance Form aerosol
- Color red
- Appearance aerosol
- Odour like petrol
- Upper Explosion Limit -
- Lower Explosion Limit -

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Vapor Density	-
Specific Gravity, 20°C	1,00 g/cm ³
Water Solubility	N
VOC-Content	79 %

SECTION 10: Stability and Reactivity

10.1 Reactivity	Danger of explosion in case of overheating
10.2 Chemical Stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use. Fumes can combine with air to form an explosive mixture.
10.4 Conditions to be avoided	No information available
10.5 Incompatible Materials	no information available
10.6 Hazardous products of instability / decomposition	no

SECTION 11: Toxicological Information

Toxicological Information	Naphtha (petroleum), hydrotreated light EG: 265-151-9: oral/LD 50 > 2000 mg/kg rat dermal/LD 50 > 2000 mg/kg rat inhalativ (LC50/4h) > 20 mg/l rat ----- Butan EG: 203-448-7 CAS: 106-97-8: Butan inhalativ (4 h) Dampf LC50 658 mg/l Ratte
Symptoms after ingestion	no data available
At Skin Contact	No hazard.
Symptoms after Inhalation	no data available
Symptoms after eye contact	No hazard.
Other information	No sensitizing effects known.
Toxicological Tests	There are no human toxicological data.
Further Toxicologic Effects	The product is classified acc to 1272/2008 [CLP]

SECTION 12: Ecological Information

12.2 Persistence and degradability	Ecotoxicological data have not been determined specifically for this product. The information provided is based on the knowledge of the components. Product is not readily biodegradable. The main constituents are expected to be inherently biodegradable, but some components that may persist in the environment.
12.3 Bioaccumulative potential	not information available
12.4 Mobility in soil	No information available
12.5 Results of PBT and vPvB assessment	No information available
12.6 Other adverse effects	No information available

SECTION 13: Disposal Considerations

13.1 Waste treatment methods	Waste key for uncleaned packing: 150110 PACKING WASTE, ABSORPTION MASSES, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING (A. n. g.); Packing (separated including collect locally Packing wastes); Packing, which is polluted by dangerous materials arrears of dangerous materials contained or ss dangerous waste classified.
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SECTION 14: Transport information in accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1 UN-No	1950
14.2 UN proper shipping name	CLASS 2 CODE 5F CODE: 1950 AEROSOLS FLAMMABLE, LIMITED QUANTITIES (LQ2)
14.3 Transport hazard class	Class 2 Gas
14.4 Packing group	-
14.5 Environmental hazards	n.a.
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

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture	DE: Employment restrictions concerning juveniles must be observed (§ 22 JArbSchG).
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15.2 Chemical safety assessment

There is no information available

SECTION 16: Further Information

16.1 Full text of R-phrases referred to under sections 2 and 3

GHS02 Extremely flammable
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P261A Avoid inhalation of aerosol.
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P273 Avoid release to the environment.

16.2 Further Information

The information in this SDS is correct to the best of our knowledge at the time of its publication. The information is intended to give you advice about the safe handling of the product named in this safety during storage, processing, transport and disposal. The details are not transferable to other products. The information given in this safety combination with any other materials or in any process, or undergoes processing, can use the information in this SDS, to the extent that it does not specifically indicate otherwise, are not transferred to the new made material. The material data referred to in item 9 are safety information, but no guarantees on properties. Warranties are excluded without clarification of the technical intended use and the operating conditions. If you have further questions we are available.