

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : HighTec Proof
Revision date : 15.07.2024
Print date : 28.07.2025

Version : 1.0.0

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

1.1 Product identifier

HighTec Proof
Unique Formula Identifier (UFI) : NDJ1-02G7-700K-0UPN

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

Relevant identified uses

Impregnation agent

1.3 Details of the supplier of the safety data sheet

Supplier

HOLMENKOL GmbH

Street : Monrepos 7

Postal code/City : 71634 Ludwigsburg

Country : Deutschland

Telephone : +49 7141 3894 0

Telefax : +49 7141 3894 100

Information contact : info@eimermacher.de
www.eimermacher.de

1.4 Emergency telephone number

siehe Telefonnummer des Herstellers (während normaler Geschäftszeiten) oder:

Tox Info Suisse: 145 (24-h-Notrufnummer)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Aerosol 1 ; H229 - Aerosols : Category 1 ; Pressurised container: May burst if heated.

Aerosol 1 ; H222 - Aerosols : Category 1 ; Extremely flammable aerosol.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hydrocarbons, C7, n-Alkanes, Isoalkanes, cyclics ; CAS No. : 64742-49-0

Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics ; CAS No. : 246538-78-3

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Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of the reach of children.
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.
P261 Avoid breathing spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container to hazardous or special waste collection point

Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

Additional information

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

2.3 Other hazards

Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; REACH No. : 01-2119463258-33-XXXX ; EC No. : 919-857-5

Weight fraction : $\geq 35 - < 40$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H336

Hydrocarbons, C7, n-Alkanes, Isoalkanes, cyclics ; REACH No. : 01-2119475515-33-XXXX ; EC No. : 927-510-4; CAS No. : 64742-49-0

Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 Skin Irrit. 2 ; H315 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics ; REACH No. : 01-2119456810-40-XXXX ; EC No. : 920-901-0; CAS No. : 246538-78-3

Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304 EUH066

N-BUTYL ACETATE ; REACH No. : 01-2119485493-29-000 ; EC No. : 204-658-1; CAS No. : 123-86-4

Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336 EUH066

ETHYL ACETATE ; REACH No. : 141-78-6-XXXX ; EC No. : 205-500-4; CAS No. : 141-78-6

Weight fraction : $\geq 1 - < 5$ %
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336 EUH066

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Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician. If unconscious but breathing normally, place in recovery position and seek medical advice.

In case of skin contact

In case of skin irritation, consult a physician.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

4.2 Most important symptoms and effects, both acute and delayed

No information available for acute dermal and inhalative toxicity

Symptoms

Important or further important known symptoms and effects are described in the GHS labelling of the product (see section 2) and in section 11 (Toxicological information). (Further) symptoms and/or effects are not yet known.

In our experience, no special hazards are to be expected if the product is handled properly and is used as intended.

4.3 Indication of any immediate medical attention and special treatment needed

treatment: Symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) , Extinguishing powder , Water mist , alcohol resistant foam
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet , Strong water jet

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to the escape of irritating gases and vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters

Full protection suit , Use suitable breathing apparatus.

5.4 Additional information

Caution! Container under pressure. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Remove persons to safety. Remove all sources of ignition. Provide adequate ventilation. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clear contaminated areas thoroughly. Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

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See protective measures under point 7 and 8.
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide adequate ventilation as well as local exhaust at critical locations.
It is recommended to design all work processes always so that the following is excluded: Inhalation of vapours or spray/mists
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Protective measures

Measures to prevent fire

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not open container by force.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Floors should be impervious, resistant to liquids and easy to clean.

Hints on joint storage

Storage class

3

Further information on storage conditions

Heating causes rise in pressure with risk of bursting. Keep in a cool, well-ventilated place.

Protect against : Heat. , UV-radiation/sunlight

7.3 Specific end use(s)

Observe instructions for use. see section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

N-BUTYL ACETATE ; CAS No. : 123-86-4

Limit value type (country of origin) : STEL (EC)

Limit value : 150 ppm / 723 mg/m³

Version : 20.06.2019

Limit value type (country of origin) : TWA (EC)

Limit value : 50 ppm / 241 mg/m³

Version : 20.06.2019

DNEL-/PNEC-values

DNEL/DMEL

N-BUTYL ACETATE ; CAS No. : 123-86-4

Limit value type : DNEL/DMEL (Consumer)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 35,7 mg/m³

Limit value type : DNEL/DMEL (Consumer)

Exposure route : Inhalation

Exposure frequency : Short-term

Limit value : 300 mg/m³

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Limit value type : DNEL/DMEL (Consumer)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 6 mg/kg
Assessment factor : day(s)
Limit value type : DNEL/DMEL (Consumer)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 2 mg/kg
Assessment factor : day(s)
Limit value type : DNEL/DMEL (Consumer)
Exposure route : Oral
Exposure frequency : Short-term
Limit value : 2 mg/kg
Assessment factor : day(s)
Limit value type : DNEL/DMEL (Worker)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 300 mg/m³
Limit value type : DNEL/DMEL (Worker)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 600 mg/m³
Limit value type : DNEL/DMEL (Worker)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 11 mg/kg
Assessment factor : day(s)

PNEC

N-BUTYL ACETATE ; CAS No. : 123-86-4

Limit value type : PNEC (Aquatic, freshwater)
Exposure route : Water (Including sewage plant)
Limit value : 0,18 mg/l
Limit value type : PNEC (Aquatic, marine water)
Exposure route : Water (Including sewage plant)
Limit value : 0,018 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 0,981 mg/kg
Limit value type : PNEC (Sediment, marine water)
Limit value : 0,098 mg/kg
Limit value type : PNEC (Soil)
Limit value : 0,09 mg/kg
Limit value type : PNEC (Sewage treatment plant)
Limit value : 35,6 mg/l

8.2 Exposure controls

Personal protection equipment

Use personal protection equipment.

Eye/face protection



Eye glasses EN 166

Skin protection

Hand protection

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By short-term hand contact : Suitable gloves type Disposable gloves. NBR (Nitrile rubber)

By long-term hand contact : Check leak tightness/impermeability prior to use.

Suitable material CR (polychloroprene, chloroprene rubber) , NBR (Nitrile rubber) , Butyl caoutchouc (butyl rubber) , NR (natural rubber, Natural latex)

Breakthrough time 480 min

Thickness of the glove material Polychloroprene - CR (0.5 mm) Nitrile rubber/nitrile latex - NBR (0.35 mm) Butyl rubber - Butyl (0.5 mm)

Required properties : When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. EN ISO 374

Remark : Check leak tightness/impermeability prior to use. Breakthrough times and swelling properties of the material must be taken into consideration.

Body protection

Wear anti-static footwear and clothing

Protective clothing. EN 13034 Natural fibres (e.g. cotton) , heat-resistant synthetic fibres

Chemical resistant safety shoes DIN EN 13832-2

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Aerosol

Colour : colourless

Odour : characteristic

Safety characteristics

Physical state :		Liquid
Melting point/freezing point :		not determined
Initial boiling point and boiling range :	(1013 hPa)	not applicable
Decomposition temperature :		not determined
Flash point :	approx.	-60 °C
Auto-ignition temperature :		258 °C
Lower explosion limit :		1 Vol-%
Upper explosion limit :		10,9 Vol-%
Lower explosion limit :		not determined
Upper explosion limit :		not determined
Density :	(20 °C)	0,67 g/cm ³
Solvent separation test :	(20 °C)	No data available
Fat solubility :	(20 °C)	Not determined.
log P O/W :		not determined
Viscosity :	(20 °C)	mPa*s
Solvent content :		95,1 Weight-%
Odour threshold :		not determined
Relative vapour density :	(20 °C)	not determined
Vapourisation rate :		not determined
Flammable solids :		Not applicable.
Flammable gases :		Extremely flammable gas.
Oxidising liquids :		Not relevant.
Explosive properties :		Not applicable.
Corrosive to metals :		Not relevant.

9.2 Other information

None

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SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

See section 7 of the safety data sheet.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

There are no data available on the preparation/mixture itself.

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

Acute toxicity

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

Corrosion

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

Respiratory or skin sensitisation

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

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

Germ cell mutagenicity

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

Reproductive toxicity

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

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

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

Aspiration hazard

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

11.2 Information on other hazards

Endocrine disrupting potential:

The product does not contain any substance above the legal limits that is included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 on the basis of endocrine disrupting properties or that has endocrine disrupting or endocrine damaging properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other indications of toxicity

The product has not been tested. The statements on toxicology were derived from the properties of the individual components.

SECTION 12: Ecological information

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12.1 Toxicity

The product has not been tested. The statement is derived from the properties of the single components.

Aquatic toxicity

Harmful to aquatic life with long lasting effects.

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

This product does not contain components in concentrations of 0.1% or higher which are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

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

12.6 Endocrine disrupting properties

The product does not contain any substance above the legal limits that is included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 on the basis of endocrine disrupting properties or that has endocrine disrupting or endocrine damaging properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7 Other adverse effects

The product does not contain any substances listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.8 Additional ecotoxicological information

Additional information

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste codes/waste designations according to EWC/AVV

Waste code (EWC/AVV) : 15 01 10* (packaging containing residues of or contaminated by dangerous substances)

After intended use

Waste codes/waste designations according to EWC/AVV

Waste code (EWC/AVV) : 15 01 04 (metallic packaging)

SECTION 14: Transport information

14.1 UN number or ID number

UN 1950

14.2 UN proper shipping name

Land transport (ADR/RID)

AEROSOLS

Sea transport (IMDG)

AEROSOLS

Air transport (ICAO-TI / IATA-DGR)

AEROSOLS, FLAMMABLE

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14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 2
Classification code : 5F
Hazard identification number (Kemler No.) : 23
Tunnel restriction code : D
Special Provisions : LQ 11 · E 0
Hazard label(s) : 2.1 / N

Sea transport (IMDG)

Class(es) : 2.1
EmS-No. : F-D / S-U
Special Provisions : LQ 11 · E 0
Hazard label(s) : 2.1

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 2.1
Special Provisions : E 0
Hazard label(s) : 2.1

14.4 Packing group

14.5 Environmental hazards

Land transport (ADR/RID) : Yes
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3, 40, 75

National regulations

CH: Chemicals Ordinance, ChemO

Other regulations, restrictions and prohibition regulations

Switzerland

VOCV-Regulation

See section 9.1

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for this preparation. For the following substances of this mixture/preparation a chemical safety assessment has been carried out :

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; REACH No. : 01-2119463258-33-XXXX ; EC No. : 919-857-5

Hydrocarbons, C7, n-Alkanes, Isoalkanes, cyclics ; REACH No. : 01-2119475515-33-XXXX ; EC No. : 927-510-4; CAS No. : 64742-49-0

Hydrocarbons, C11-C13, isoalkanes, < 2% aromatics ; REACH No. : 01-2119456810-40-XXXX ; EC No. : 920-901-0; CAS No. :

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ETHYL ACETATE ; REACH No. : 141-78-6-XXXX ; EC No. : 205-500-4; CAS No. : 141-78-6

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

ADR = European Agreement concerning the carriage of Dangerous goods by Road
ADN = European Agreement concerning the Carriage of Dangerous Goods by Inland Waterways
ATE = Estimated values for acute toxicity
AwSV = Ordinance on Installations for Handling Substances Hazardous to Water
CAS = Chemical Abstract Service Number
CE = European Community
CLP = EC Regulation 1272/2008
CMR = cancerogen mutagen reprotoxic
DIN = German Institute for Standardisation
DNEL = Derived No Effect Level
DMEL = Derived Minimum Effect Level
EC50 = Mean effective concentration that induces a defined effect other than death in a test population
EG = European Community
EN = European standards
IATA = International Air Transport Association Dangerous Goods Regulation
IBC-Code = International Code for the construction and equipment of ships carrying dangerous chemicals in large quantities
IMDG = International Maritime Code for dangerous goods
ISO = International Organization for Standardization
LC50 = Lethal Concentration 50%
LD50 = Lethal dose 50%
MAK = Maximum workplace concentration
MARPOL = International Convention for the Protection of the Marine Environment from Ship-generated Litter
NOEC = No Observed Effect Concentration
OECD = Organisation for Economic Cooperation and Development
PBT = Persistent, bioaccumulative and toxic
pH = potential of hydrogen
PNEC = Predicted no effect concentration
PPM = parts per million
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals (EC Regulation 1907/2006)
RID = Regulation concerning the international transport of dangerous goods by train
TRGS = Technical rules for hazardous substances (german rules)
TWA = Time-weighted average exposure limit
UN-Number = UN number for the transport of dangerous goods
vPvB = Very Persistent and very Bioaccumulative as for REACH Regulation
VOC = Volatile organic Compounds

16.3 Key literature references and sources for data

Storage of hazardous substances" guidelines, 3rd revised and updated edition 2018

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

16.5 Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

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H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
