EPDM Surface Adhesive SprayBond100

Safety Data Sheet

In accordance with Regulation (EU) No. 1907/2006 Annex II, as amended. Regulation (EU) No 2020/878 by the Commission.

SECTION 1: Name of the substance or mixture and the undertaking

1.1 Product identifier

Product	EPDM Surface Adhesive SprayBond100
Container Size	22,10 Liter
UFI	NK80-S0U9-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 (REGULATION (EC) No 1272/2008)

Flammable gases, Category 1A	H220: Extremely flammable gas.
Gases under pressure, Liquefied gas	H280: Contains gas under pressure; may explode if heated.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects

2.2 Marking elements

Labeling (REGULATION (EC) No 1272/2008)

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

Hazard pictograms

Signal Word Danger

Hazard Statements

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary Statements

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.

Response:

P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 In case of leakage, eliminate all ignition sources.
P391 Collect spillage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P410 + P403 Protect from sunlight. Store in a well-ventilated place.**Gefahrbestimmende Komponenten zur**
Hazardous ingredients which must be listed on the label:
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
ethyl acetate
Naphtha (petroleum), hydrotreated light

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumula-tive and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regu-lation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

ABSCHNITT 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of the substances listed below with non-hazardous additives.

Components			
Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	Not Assigned 926-605-8 01-2119486291-36-0000	Flam. Liq. 2; H225 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 10 - < 20
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0 921-024-6 649-328-00-1 01-2119475514-35-0000	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 Skin Irrit. 2; H315 STOT SE 3; H336 (Respiratory system)	>= 2,5 - < 10
ethyl acetate	141-78-6 205-500-4 607-022-00-5 01-2119475103-46-0000	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	>= 1 - < 10
Naphtha (petroleum), hydrotreat-ed light	Not Assigned 920-750-0 649-328-00-1 01-2119473851-33-0000	Flam. Liq. 2; H225 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2,5 - < 10
Phenol, 4-Methyl-, Reaktionspro-dukte mit Dicyclopentadien und Isobutylen	68610-51-5 271-867-2 01-2119496062-39-0000	Repr. 2; H361 Aquatic Chronic 4; H413 _____ M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,1 - < 0,25
Substances with a workplace exposure limit :			
dimethyl ether	115-10-6 204-065-8 603-019-00-8 01-2119472128-37-0000	Flam. Gas 1; H220 Press. Gas Compr. Gas; H280	>= 30 - < 50

For explanation of abbreviations see section 16.

ABSCHNITT 4: First aid measures

4.1 Description of first-aid measures

General advice

Self-protection for first responders.

If on clothes, remove clothes. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

If inhaled

Remove person to fresh air. If signs/symptoms continue, get medical attention.

If breathing has stopped, apply artificial respiration.

In case of unconsciousness bring patient into stable side posi-tion for transport.

In case of skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Call a physician if irritation develops or persists.

In case of eye contact

Flush eyes with water at least 15 minutes. Get medical atten-tion if eye irritation develops or persists.

If swallowed

Rinse your mouth with water.

Do NOT induce vomiting.

If accidentally swallowed obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local cir-cumstances and the surrounding environment.

Water mist

Dry powder

Carbon dioxide (CO2)

Alcohol-resistant foam

Unsuitable extinguishing media

Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

May release toxic, irritating and/or corrosive gases.

In case of fire, the following substance(s) may occur:

Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information

In the event of fire, wear self-contained breathing apparatus.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regula-tions.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.
Use personal protective equipment.
Use breathing protection against the effects of fumes/dust/aerosol.
Evacuate personnel to safe areas.
Ensure adequate ventilation.

6.2 Environmental precautions

If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Non-sparking tools should be used.
Ensure adequate ventilation.
Send for recovery or disposal in suitable containers.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.
For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Local/Total ventilation

Use only with adequate ventilation.

Advice on safe handling

Avoid formation of dust and aerosols.
Take note of emission threshold.
Use solvent-proof equipment.
Ensure that suitable extractors are available on processing machines.
Handle with care.
Keep eye wash bottle available on working place.
Avoid release to the environment.
Keep out of reach of children.
Pressurized container: protect from sunlight and do not ex-pose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
Do not spray on an open flame or other ignition source.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.
Keep away from children.

Use only with adequate ventilation.

Advice on protection against fire and explosion

Keep product and empty container away from heat and sources of ignition. Do not smoke. Take measures to prevent the build up of electrostatic charge. May form explosive mix-tures in air. Highly volatile, flammable constituents are re-leased during processing. In the event of fire and/or explosion do not breathe fumes. Keep breathing equipment ready. Have fire extinguishing equipment ready in case of nearby fire.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Pressurized container: protect from sunlight and do not ex-pose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Keep tightly closed in a dry, cool and well-ventilated place. Protect against light.

Further information on stor-age conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a cool place. Heat will increase pressure and may lead to the container exploding.

Advice on common storage

Do not store together with oxidizing and self-igniting products.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational Exposure Limits				
Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
dimethyl ether	115-10-6	TWA	1.000 ppm 1.920 mg/m3	2000/39/EC
	Further information: Indicative			
		OELV - 8 hrs (TWA)	1.000 ppm 1.920 mg/m3	IE OEL
cyclohexane (as part of a UVCB)	110-82-7	TWA	200 ppm 700 mg/m3	2006/15/EC
	Further information: Indicative			
		OELV - 8 hrs (TWA)	200 ppm 700 mg/m3	IE OEL
ethyl acetate	141-78-6	OELV - 8 hrs (TWA)	200 ppm 734 mg/m3	IE OEL
		OELV - 15 min (STEL)	400 ppm 1.468 mg/m3	IE OEL
		STEL	400 ppm 1.468 mg/m3	2017/164/EU
	Further information: Indicative			
		TWA	200 ppm 734 mg/m3	2017/164/EU
	Further information: Indicative			
n-hexane (as part of a UVCB)	110-54-3	TWA	20 ppm 72 mg/m3	2006/15/EC
	Further information: Indicative			
		OELV - 8 hrs TWA	20 ppm 72 mg/m3	IE OEL
	Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:				
Substance name	End Use	Routes of expo-sure	Potential health ef-fects	Value
dimethyl ether	Workers	Inhalation	Systemic, long-term	1894 mg/m3
	Workers	Eye contact	Local effects	
Hydrocarbons, C6-C7, isoalkanes, cy-clics, <5% n-hexane	Workers	Skin contact	Long-term systemic effects	13964 mg/kg
	Workers	Inhalation	Long-term systemic effects	5306 mg/m3
Hydrocarbons, C6-C7, n-alkanes, isoal-kanes, cyclics, <5% n-hexane	Workers	Eye contact	Local effects	
	Workers	Dermal	Systemic, long-term	300 mg/kg
	Workers	Inhalation	Systemic, short-term	1286,4 mg/m3
	Workers	Inhalation	Local, long-term	837,5 mg/m3
	Workers	Inhalation	Local, short-term	1066,67 mg/m3
	Workers	Inhalation	Systemic, long-term	1,9 mg/m3
ethyl acetate	Workers	Eye contact	Local effects	
	Workers	Inhalation	Systemic, short-term	1468 mg/m3
	Workers	Inhalation	Systemic, long-term	734 mg/m3
	Workers	Inhalation	Local, short-term	1468 mg/m3
	Workers	Inhalation	Local, long-term	734 mg/m3
	Workers	Dermal	Systemic, long-term	63 mg/kg
Resin acids and Ros-in acids, polymd., esters with glycerol	Workers	Eye contact	Local effects	
	Workers	Inhalation	Local, long-term	10 mg/m3
	Workers	Dermal	Systemic, long-term	5 mg/kg
Phenol, 4-methyl-, reaction products with dicyclopenta-diene and isobutyl-ene	Workers	Eye contact	Local effects	
	Workers	Inhalation	Systemic, long-term	0,29 mg/m3
	Workers	Dermal	Systemic, long-term	0,42 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:		
Substance name	Environmental Compartment	Value
dimethyl ether	Soil	0,045 mg/kg
	Marine sediment	0,069 mg/kg
	Marine water	0,016 mg/l

	Sewage treatment plant	160 mg/l
	Fresh water	0,155 mg/l
	Fresh water sediment	0,681 mg/kg
ethyl acetate	Soil	0,148 mg/kg
	Predator	0,2 g/kg
	Fresh water sediment	1,15 mg/kg
	Fresh water	0,24 mg/l
	Sewage treatment plant	650 mg/l
	Marine water	0,024 mg/l
	Marine sediment	0,115 mg/kg
Resin acids and Rosin acids, polymd., esters with glycerol	Soil	462,06 mg/kg
	Marine water	0,01 mg/l
	Fresh water	0,1 mg/l
	Marine sediment	231,78 mg/kg
	Sewage treatment plant	2,525 mg/l
	Fresh water sediment	2317,75 mg/kg
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Predator	1,7 mg/kg
	Soil	85,16 mg/kg
	Fresh water sediment	426,26 mg/kg
	Marine water	0,002 mg/l
	Marine sediment	85,25 mg/kg
	Fresh water	0,01 mg/l
	Sewage treatment plant	100 mg/l

8.2 Exposure controls

Engineering measures

Please take care on national and local requirements.

Personal protective equipment

Eye protection: Tightly fitting safety goggles or equipment with better protec-tion

Hand protection

Material: Nitrile rubber or equipment with better protection

Remarks:

Direct contact with the product must be avoided by organizational measures.

The glove material has to be impermeable and resistant to the product/the substance/the preparation.
The exact break through time can be obtained from the protective glove producer and this has to be observed.
The gloves need to be disposed after the penetration time and replaced by new ones.
Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

For the permanent contact gloves made of the following materials are suitable:
If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the Alphatec®/Barrier 02-100 PE-underglove from Ansell or other suppliers (penetration time: 480 min).

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
Butyl rubber (minimum thickness: 0.7 mm; penetration time: 15 min)

As protection from splashes gloves made of the following materials are suitable:
Nitril (minimum thickness 0.12 mm), Disposable gloves with long cuffs
After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable nitrile glove.

Skin and body protection: Protective clothing

Respiratory protection:
Use respiratory protection unless adequate risk management measures (exhaust/ ventilation) are provided or exposure assessment demonstrates that exposures are within recom-mended exposure guidelines.
In case of brief exposure or low pollution (exceeding of TLV) use breathing filter apparatus.
In case of intensive or longer exposure use breathing appa-ratus that is independent of circulating air.
Ensure that suitable extractors are available on processing machines.

Filter type:
Combined particulates and organic vapour type or equipment with better protection (A-P)
Protective measures:
Keep away from food, drink and animal feedingstuffs.
Instantly remove any soiled and impregnated garments.
Wash hands before breaks and immediately after handling the product.
Avoid contact with the eyes and skin.
Store protective clothing separately.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	gaseous
Color:	green
Odor:	solvent-like
Odor Threshold:	is not determined
Melting point/freezing point:	is not determined
	-25 °C
Upper explosion limit /	
Upper flammability limit:	27 %(V)
Lower explosion limit /	
Lower flammability limit:	3 %(V)
Flash point:	-41 °C
Autoignition temperature:	is not determined
Decomposition temperature:	Not applicable
pH:	is not determined

Solubility(ies)

Water solubility:	not miscible or difficult to mix
Partition coefficient n-octanol/water:	no data available
Density:	0,84 g/cm³
Relative vapor density:	is not determined

9.2 Other information

Explosives

Product is not explosive. However, formation of explosive vapour/air mixtures is possible.

Evaporation rate

is not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

No decomposition if used according to the specifications.

10.3 Possibility of hazardous reactions

Develops readily flammable vapours/fumes.

10.4 Conditions to avoid

Heat may lead to dangerous pressure build-up in sealed container.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

The product has not been tested. The statements below have been derived from the properties of the individual components.

Acute toxicity

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

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		
oral	LD50 (Rat)	> 3.350 mg/kg
inhalation	LC50 (Rat)	20 mg/l Exposure time: 4 Hours
dermal	(Rabbit)	> 2.000 mg/kg
ethyl acetate		
oral	LD50 Oral (Rat)	5.620 mg/kg
inhalation	LC50 (Rat)	22,5 mg/l Exposure time: 4 Hours Test atmosphere: Inhalation
dermal	LD50 Dermal (Rabbit)	> 20.000 mg/kg

Phenol, 4-Methyl-, Reaktionsprodukte mit Dicyclopentadien und Isobutylen		
oral	LD50 Oral (Rat)	> 5.000 mg/kg
dermal	LD50 Dermal (Rabbit)	> 2.000 mg/kg

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

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

Respiratory or skin sensitization

Skin sensitization

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

Respiratory sensitization

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

Germ cell mutagenicity

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

Carcinogenicity

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 toxicity

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

11.2 Information on other hazards

Endocrine disrupting properties

The substance/mixture does not contain components consid-ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 3 mg/l Exposure time: 48 Hours
ethyl acetate	
Toxicity to fish	LC50 (Pimephales promelas (fathead minnow)): 220 - 250 mg/l Exposure time: 96 Hours Method: flow-through test
Phenol, 4-Methyl-, Reaktionsprodukte mit Dicyclopentadien und Isobutylen:	
Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,2 mg/l Exposure time: 96 Hours Method: semi-static test
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 0,2 mg/l Exposure time: 48 Hours Test Type: static test

M-Factor (Acute aquatic toxicity)	1
M-Factor (Chronic aquatic toxicity)	1

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
Partition coefficient: n-octanol/water	log Pow: 2,2 - 6,1 (23 °C) pH: 6,2 GLP: yes
ethyl acetate	
Partition coefficient: n-octanol/water	log Pow: > 0,66 - < 0,73 (25 °C) pH: 7 GLP: no
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	
Partition coefficient: n-octanol/water	log Pow: > 7,17 - < 8,17 (30 °C) GLP: yes
dimethyl ether	
Partition coefficient: n-octanol/water	log Pow: 0,10

12.4 Mobility in soil

Medium: Soil

Remarks: Do not allow product to reach ground water, water bodies or sewage system.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components consid-ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Do not dispose of with domestic refuse.
Do not dispose of waste into sewer.
Hand over to disposers of hazardous waste.
The generation of waste should be avoided or minimized wherever possible.
Incinerate under controlled conditions in accordance with all local and national laws and regulations.
Disposal must be made according to official regulations.

These EU waste code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other dangerous substances (according GHS) listed under section 3 of this safety datasheet is itself classified as dangerous (*).

Waste accruing during application:
08 04 09* waste adhesives and sealants containing or-ganic solvents or other dangerous substances
08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Waste accruing during cleaning:
08 04 11* adhesive and sealant sludges containing or-ganic solvents or other dangerous substances
08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11

Waste packaging:
15 01 01 paper and cardboard packaging
15 01 02 plastic packaging
15 01 04 metallic packaging
15 01 10* packaging containing residues of or contami-nated by dangerous substances.

Contaminated packaging: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Nummer

ADR:	UN 3501
RID:	UN 3501
IMDG:	UN 3501
IATA (Cargo):	UN 3501
IATA (Passenger):	UN 3501 Not permitted for transport

14.2 UN proper shipping name

ADR	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETHYL ETHER, HYDROCARBONS,C6-C7)
RID	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETHYL ETHER, HYDROCARBONS,C6-C7)
IMDG	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETHYL ETHER, HYDROCARBONS,C6-C7)
IATA (Cargo)	Chemical under pressure, flammable, n.o.s. (Dimethyl ether, Hydrocarbons, C6-C7)
IATA (Passenger)	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. Not permitted for transport

14.3 Transport hazard class(es)

ADR:	2
RID:	2
IMDG:	2.1
IATA (Cargo):	2.1
IATA (Passenger):	Not permitted for transport

14.4 Packing group

ADR

Packing group:	Not assigned by regulation
Classification Code:	8F
Hazard Identification Number:	23
Labels:	2.1
Tunnel restriction code:	(B/D)

RID

Packing group:	Not assigned by regulation
Classification Code:	8F
Hazard Identification Number:	23
Labels:	2.1

IMDG

Packing group:	Not assigned by regulation
Labels:	2.1
EmS Code:	F-D, S-U

IATA (Cargo)

Packing instruction (cargo aircraft):	218
Packing group:	Not assigned by regulation
Labels:	Flammable Gas
IATA (Passenger):	Not permitted for transport

14.5 Environmental hazards

ADR

Environmentally hazardous: yes

RID

Environmentally hazardous: yes

IMDG

Marine pollutant: yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifica-tions may vary by mode of transportation, package sizes, and var-iations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-ture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	Conditions of restriction for the fol-lowing entries should be con-sidered: Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (SVHC, Article 59)	Not applicable
Regulation (EU) No 2024/590 on substances that deplete the ozone layer	Compliant
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	Compliant
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	Neither banned nor restricted
Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment, Annex II	Compliant
Council Regulation (EC) No 273/2004 on drug precursors	Compliant
Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	Compliant
Seveso III: Directive 2012/18/EU of the Euro-pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	E2 ENVIRONMENTAL HAZARDSP2 FLAMMABLE GASES 18 Liquefied flammable gases (including LPG) and natural gas
Minimum Qualifying Quantity of Lower Tier Requirement :200 t **Maximum Qualifying Quantity of Higher Tier Requirement :**500 t	
Volatile organic compounds	Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 78,37 %
Other regulations: Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable. Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.	
The ingredients of this product are reported in the following inventories: REACH On the inventory, or in compliance with the inventory	

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Full text of H-Statements

H220: Extremely flammable gas.
H225: Highly flammable liquid and vapour.
H280: Contains gas under pressure; may explode if heated.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.

H319:	Causes serious eye irritation.
H336:	May cause drowsiness or dizziness.
H361:	Suspected of damaging fertility or the unborn child.
H411:	Toxic to aquatic life with long lasting effects.
H413:	May cause long lasting harmful effects to aquatic life.
EUH066:	Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Aquatic Chronic:	Long-term (chronic) aquatic hazard
Asp. Tox.:	Aspiration hazard
Eye Irrit.:	Eye irritation
Flam. Gas:	Flammable gases
Flam. Liq.:	Flammable liquids
Press. Gas:	Gases under pressure
Repr.:	Reproductive toxicity
Skin Irrit.:	Skin irritation
STOT SE:	Specific target organ toxicity - single exposure
2000/39/EC:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2006/15/EC:	Europe. Indicative occupational exposure limit values
2017/164/EU:	Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
IE OEL:	Ireland. List of Chemical Agents and Carcinogens with Occu-pational Exposure Limit Values - Code of Practice, Schedule 1 and 2
2000/39/EC / TWA:	Limit Value - eight hours
2006/15/EC / TWA:	Limit Value - eight hours
2017/164/EU / STEL:	Short term exposure limit
2017/164/EU / TWA:	Limit Value - eight hours
IE OEL / OELV - 8 hrs (TWA):	Occupational exposure limit value (8-hour reference period)
IE OEL / OELV - 15 min (STEL):	Occupational exposure limit value (15-minute reference peri-od)

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