

according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Spraying adhesive

Revision date:6/6/2023Version:1.4Replaces version:1.3Language:en-GBDate of print:8/6/2023Page:1 of 12

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

1.1 Product identifier

Trade name:

Spraying adhesive

This safety data sheet pertains to the following products: 147377 = Spraying adhesive 304582 = Spray Adhes.

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

General use: Adhesive. Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company name:	Berner Produkten b.v.	
Street/POB-No .:	Vogelzankweg 175	
Postal Code, city:	6374 AC Landgraaf	
	Netherlands	
WWW:	www.berner.nl	
E-mail:	info@berner.nl	
Telephone:	+31 45 53 39 133	
Department responsible for information:		

E-mail: Productsafety.Chemicals@berner-group.com

1.4 Emergency telephone number

Poisons information service: National Poisons Information Service (Birmingham Unit): 844 892 0111 Transport: CONSULTANK Lutz Harder GmbH (Contract Qualisys/Berner) Telephone: +49 (178) 4337434 (from USA: 01149 178 4337434)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Aerosol 1; H222; H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Skin Irrit. 2; H315	Causes skin irritation.
STOT SE 3; H336	May cause drowsiness or dizziness.
Asp. Tox. 1; H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2; H411	Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (CLP)



Danger	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
	H222 H229 H315 H336



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Spraying adhesive

 Revision date:
 6/6/2023

 Version:
 1.4

 Replaces version:
 1.3

 Language:
 en-GB

 Date of print:
 8/6/2023

 Page:
 2 of 12

Precautionary statements:	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 vapours/spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection.
	P312	Call a POISON CENTER/doctor if you feel unwell.
	P391	Collect spillage.
	P403+P233	Store in a well-ventilated place. Keep container tightly closed.
	P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Special labelling		
Text for labelling:	Contains:	
TOALIOI IADOIIIIY.	Contains.	

Contains:	
Hydrocarbons, C6, isoalkanes, < 5% n-hexane	
Butanone	

2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided. Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may lead to a narcotic effect. The product is skin resorptive.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

CAS No.	Designation	PBT/vPvB	ED Human	ED Environment
78-93-3	Butanone		List II	

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Blend of active ingredients with propellant.



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Spraying adhesive

Revision date: 6/6/2023 Version: 1.4 Replaces version: 1.3 Language: en-GB Date of print: 8/6/2023 Page: 3 of 12

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119484651-34-xxxx list no. 931-254-9 CAS 64742-49-0	Hydrocarbons, C6, isoalkanes, < 5% n-hexane Flam. Liq. 2; H225. Skin Irrit. 2; H315. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411.	25 - 50 %
REACH 01-2119457290-43-xxxx EC No. 201-159-0 CAS 78-93-3	Butanone Flam. Liq. 2; H225. Eye Irrit. 2; H319. STOT SE 3; H336. (EUH066).	< 10 %
REACH 01-2119472128-37-xxxx EC No. 204-065-8 CAS 115-10-6	Dimethyl ether Flam. Gas 1; H220. Press. Gas (Liq.); H280.	10 - 25 %
REACH 01-2119474691-32-xxxx EC No. 203-448-7 CAS 106-97-8	n-Butane, <0,1% Butadiene Flam. Gas 1; H220. Press. Gas (Comp.); H280.	2.5 - 10 %
REACH 01-2119486944-21-xxxx EC No. 200-827-9 CAS 74-98-6	Propane Flam. Gas 1; H220. Press. Gas (Comp.); H280.	2.5 - 10 %
REACH 01-2119485395-27-xxxx EC No. 200-857-2 CAS 75-28-5	i-Butane, <0,1% Butadiene Flam. Gas 1; H220. Press. Gas (Comp.); H280.	0.1 - 1 %

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse.
In case of inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious place in recovery position and seek medical advice.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness.

Causes skin irritation. May be fatal if swallowed and enters airways.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Aspiration hazard: in case of swallowing or vomiting danger of penetration into the lungs. Subsequent observance for pneumonia and lung oedema.

according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Spraying adhesive

Revision date: 6/6/2023 Version: 1.4 1.3 Replaces version: en-GB Language 8/6/2023 Date of print: Page:

4 of 12

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, water mist, alcohol resistant foam, Extinguishing powder, Carbon dioxide

Extinguishing media which must not be used for safety reasons:

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Full water jet

5.2 Special hazards arising from the substance or mixture

Extremely flammable aerosol. Pressurised container: May burst if heated. May form dangerous gases and vapours in case of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information Hazchem-Code: -

> Heating will lead to pressure increase: Danger of bursting and explosion. Use fine water spray to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours/spray. Avoid contact with the substance. In case of leakage, eliminate all ignition sources. Provide adequate ventilation. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away. Cordon off downwind area at risk and warn inhabitants.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Danger of explosion! In case of release, notify competent authorities.

6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Thoroughly clean surrounding area.

Do not remove residual product with water and detergent.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

6.4 Reference to other sections

Refer additionally to section 8 and 13.



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Spraying adhesive

Revision date: 6/6/2023 Version: 1.4 1.3 Replaces version: Language: en-GB 8/6/2023 Date of print: Page: 5 of 12

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid breathing vapours/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply emergency spray. Precautions against fire and explosion: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. When handling larger quantities, take precautionary measures against electrostatic charging.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers: Keep container tightly closed and in a well-ventilated place. Keep container dry. Keep only in the original container. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store containers in upright position. Hints on joint storage: Keep away from food, drink and animal feedingstuffs. 7.3 Specific end use(s) No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS No.	Designation	Туре	Limit value
64742-49-0	Hydrocarbons, C6, isoalkanes, < 5% n-hexane	Great Britain: WEL-TWA	1800 mg/m³ (C5-C6 alkenes)
78-93-3	Butanone	Great Britain: WEL-STEL Great Britain: WEL-TWA	899 mg/m³; 300 ppm 600 mg/m³; 200 ppm
115-10-6	Dimethyl ether	Great Britain: WEL-STEL Great Britain: WEL-TWA	958 mg/m³; 500 ppm 766 mg/m³; 400 ppm
106-97-8	n-Butane, <0,1% Butadiene	Great Britain: WEL-STEL Great Britain: WEL-TWA	1810 mg/m³; 750 ppm 1450 mg/m³; 600 ppm

Biological limit values

CAS No.	Designation	Туре	Limit value	Parameter	Sampling
78-93-3	Butanone	Great Britain: BMGV, urine	70 µmol/L	butan 2-one	end of exposure or end of shift

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.



SAFETY DATA SHEET according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Spraying adhesive

Personal protection equipment

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Occupational exposure controls

Respiratory protection:In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn whenever the WEL levels have been exceeded. Recommendation: Use combination filter type A/P according to EN 14387. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.Hand protection:Protective gloves according to EN 374. Glove material: Nitrile rubber - Layer thickness: >= 0.5 mm. Breakthrough time: > 480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.Eye protection:Tightly sealed goggles according to BS EN ISO 16321-1:2022.Body protection and hygier weasures:Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Avoid breathing vapours/spray. Do not get in eyes, on skin, or on clothing. When using do not eat or drink. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply emergency spray.		
Glove material: Nitrile rubber - Layer thickness: >= 0.5 mm. Breakthrough time: > 480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time. Eye protection: Tightly sealed goggles according to BS EN ISO 16321-1:2022. Body protection: Flame retardant, antistatic and chemical resistant protective clothing. General protection and hygiene measures: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Avoid breathing vapours/spray. Do not get in eyes, on skin, or on clothing. When using do not eat or drink. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply	Respiratory protection:	worn whenever the WEL levels have been exceeded. Recommendation: Use combination filter type A/P according to EN 14387. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration
Body protection: Flame retardant, antistatic and chemical resistant protective clothing. General protection and hygiene measures: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Avoid breathing vapours/spray. Do not get in eyes, on skin, or on clothing. When using do not eat or drink. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply	Hand protection:	Glove material: Nitrile rubber - Layer thickness: >= 0.5 mm. Breakthrough time: > 480 min.
General protection and hygiene measures: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Avoid breathing vapours/spray. Do not get in eyes, on skin, or on clothing. When using do not eat or drink. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply	Eye protection:	Tightly sealed goggles according to BS EN ISO 16321-1:2022.
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Avoid breathing vapours/spray. Do not get in eyes, on skin, or on clothing. When using do not eat or drink. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply 	Body protection:	Flame retardant, antistatic and chemical resistant protective clothing.
	General protection and hygien	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Avoid breathing vapours/spray. Do not get in eyes, on skin, or on clothing. When using do not eat or drink. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply

Environmental exposure controls

See subsection 6.2

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Form: Aerosol Colour: Varying colours
Odour:	Characteristic
Odour threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	-44.5 °C
Flash point/flash point range:	-97 °C
Evaporation rate:	No data available
Flammability:	Extremely flammable aerosol.
Explosion limits:	LEL (Lower Explosion Limit): 1.10 Vol-% UEL (Upper Explosive Limit): 18.60 Vol-%
Vapour pressure:	at 20 °C: 3000 hPa
Vapour density:	No data available
Density:	at 20 °C: 0.707 g/mL
Water solubility:	not/slightly miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	Not self-igniting
Decomposition temperature:	No data available
Viscosity, kinematic:	at 40 °C: <= 20.5 mm²/s



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Spraying adhesive

Revision date:6/6/2023Version:1.4Replaces version:1.3Language:en-GBDate of print:8/6/2023Page:7 of 12

Explosive properties: Oxidizing characteristics:	Product is not explosive. Vapours can form explosive mixtures with air. No data available
9.2 Other information	
Ignition temperature:	> 200 °C
Solvent content:	83.2 %
Solid content:	16.8 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Extremely flammable aerosol. Vapours can form explosive mixtures with air.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Pressurised container: May burst if heated.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

 No decomposition when used properly.

 Thermal decomposition:
 No data available

according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Spraying adhesive

Revision date: 6/6/2023 Version: 1.4 Replaces version: 1.3 Language: en-GB Date of print: 8/6/2023 Page: 8 of 12

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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Toxicological effects:	The statements are derived from the properties of the single components. No toxicological data is available for the product as such.
	Acute toxicity (oral): Based on available data, the classification criteria are not met.
	Acute toxicity (dermal): Based on available data, the classification criteria are not met.
	Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
	Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.
	Serious eye damage/irritation: Based on available data, the classification criteria are not met.
	Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.
	Skin sensitisation: Based on available data, the classification criteria are not met.
	Germ cell mutagenicity/Genotoxicity: 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.
	Effects on or via lactation: Lack of data.
	Specific target organ toxicity (single exposure): STOT SE 3; H336 = May cause drowsiness or dizziness.
	Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.
	Aspiration hazard: Asp. Tox. 1; H304 = May be fatal if swallowed and enters airways.
Other information:	Information about Hydrocarbons, C6, isoalkanes, < 5% n-hexane: LD50 Rat, oral: > 16,750 mg/kg LD50 Rabbit, dermal: > 3,350 mg/kg LC50 Rat, inhalative: > 259,354 mg/m³/4h
	Information about Butanone: LD50 Rat, oral: 2,193 mg/kg LD50 Rabbit, dermal: > 10 mL/kg
Symptoms	
	Inhaling can lead to irritations of the respiratory tract and mucous membrane.

Inhaling can lead to irritations of the respiratory tract and mucous membran Higher doses may lead to a narcotic effect.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Toxic to aquatic life with long lasting effects. Information about Hydrocarbons, C6, isoalkanes, < 5% n-hexane:

Fish toxicity: LL50: 18.27 mg/L/96h NOELR: 4.089 mg/L/28d Daphnia toxicity: EL50: 31.9 mg/L NOELR: 7.138 mg/L/21d

12.2 Persistence and degradability

Further details:

No data available



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Spraying adhesive

 Revision date:
 6/6/2023

 Version:
 1.4

 Replaces version:
 1.3

 Language:
 en-GB

 Date of print:
 8/6/2023

 Page:
 9 of 12

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General information:

Do not allow to enter into ground-water, surface water or drains. Avoid spills and leaks. Very small amounts contaminates drinking water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number:	16 05 04* =	Gases in pressure containers (including halons) containing hazardous substances/Aerosol * = Evidence for disposal must be provided.
Recommendation:		e or burn, even after use. e. Dispose of waste according to applicable legislation.
	•	se of with household waste.
Package		
Waste key number:	15 01 10* =	packaging containing residues of or contaminated by dangerous substances * = Evidence for disposal must be provided.
Recommendation:		aste according to applicable legislation.
	Empty carefu may cause e	Illy and completely, if possible. Handle empty containers with care. Incineration xplosion.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR: UN 1950

14.2 UN proper shipping name

ADR/RID:	UN 1950, AEROSOLS
IMDG:	UN 1950, AEROSOLS (Hydrocarbons, C6, isoalkanes, < 5% n-hexane), MARINE POLLUTANT
IATA-DGR:	UN 1950, AEROSOLS, FLAMMABLE



SAFETY DATA SHEET according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Spraying adhesive

Revision date:	6/6/2023
Version:	1.4
Replaces version: 1.3	
Language:	en-GB
Date of print:	8/6/2023
Page:	10 of 12

14.3 Transport hazard class(es)

ADR/RID:	Class 2, Code: 5F
IMDG:	Class 2.1, Subrisk -
IATA-DGR:	Class 2.1

14.4 Packing group

ADR/RID, IATA-DGR: IMDG:

14.5 Environmental hazards

Marine pollutant:

yes

not applicable

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board:	RID: Kemmler-number 23, UN number UN 1950
Hazard label:	2.1
Special Provisions:	190 327 344 625
Limited quantities:	1 L
EQ:	E0
Package - Instructions:	P207 LP200
Package - Special Provisions:	PP87 RR6 L2
Special provisions for packing together:	MP9
Tunnel restriction code:	D
Sea transport (IMDG)	

Sea transport (IMDG)

EmS: Special Provisions: Limited quantities: Excepted quantities: Package - Instructions: Package - Provisions: IBC - Instructions: IBC - Provisions: Tank instructions - IMO:	F-D, S-U 63 190 277 327 344 381 959 1000 mL E0 P207, LP200 PP87, L2 -
Tank instructions - UN: Tank instructions - Provisions:	-
Stowage and handling: Segregation:	SW1 SW22 SG69
Properties and observations: Segregation group:	- none
	none

Air transport (IATA)

Hazard label:	Flamm. gas
Excepted Quantity Code:	E0
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft:	Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only:	Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special Provisions:	A145 A167 A802
Emergency Response Guide-Code (ERG):	10L

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Spraying adhesive

Revision date: 6/6/2023 Version: 1.4 Replaces version: 1.3 Language: en-GB 8/6/2023 Date of print: Page:

11 of 12

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code:

No data available

National regulations - EC member states

Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive] Physical hazards: Code P3a, Quantity threshold 150 000 kg / 500 000 kg Environmental hazards: Code E2, Quantity threshold 200 000 kg / 500 000 kg Use restriction according to REACH annex XVII, no.: 3, 40, 75 Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: P3a, E2

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H220 = Extremely flammable gas.

H222 = Extremely flammable aerosol.

H225 = Highly flammable liquid and vapour.

H229 = Pressurised container: May burst if heated.

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.

H411 = Toxic to aquatic life with long lasting effects.

EUH066 = Repeated exposure may cause skin dryness or cracking.





according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Spraying adhesive

 Revision date:
 6/6/2023

 Version:
 1.4

 Replaces version:
 1.3

 Language:
 en-GB

 Date of print:
 8/6/2023

 Page:
 12 of 12

Abbreviations and acronyms: ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road Aerosol: Aerosol Aquatic Chronic: Hazardous to the aquatic environment - chronic AS/NZS: Australian Standards/New Zealand Standards Asp. Tox.: Aspiration toxicity CAS: Chemical Abstracts Service CFR: Code of Federal Regulations CLP: Classification, Labelling and Packaging DMEL: Derived minimal effect level DNEL: Derived no-effect level EC: European Community EL50: Effective loading rate 50% EN: European Standard EQ: Excepted quantities EU: European Union Eve Irrit.: Eve irritation Flam. Gas: Flammable gases Flam. Liq.: Flammable liquid IATA: International Air Transport Association IATA-DGR: International Air Transport Association - Dangerous Goods Regulations IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk IMDG Code: International Maritime Dangerous Goods Code LC50: Median lethal concentration LD50: Lethal dose 50% LEL: Lower Explosion Limit MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships OEL: Occupational Exposure Limit Value OSHA: Occupational Safety and Health Administration PBT: Persistent, bioaccumulative and toxic PNEC: Predicted no-effect concentration Press, Gas: Gases under pressure REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail Skin Irrit.: Skin irritation STOT SE: Specific target organ toxicity - single exposure TLV: Threshold Limit Value TRGS: Technical Rules for Hazardous Substances UN: United Nations vPvB: Very persistent and very bioaccumulative WEL: Workplace Exposure Limit Reason of change: Changes in section 14: General revision Date of first version: 11/8/2021

Department issuing data sheet

Contact person:

see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.