




Sprayable Contact Adhesive

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product identifier Product Name	Sprayable Contact Adhesive	
1.2	Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Uses Advised Against	Industrial Adhesives Anything other than the above.	
1.3	Details of the supplier of the safety data sheet Company Identification Telephone Fax E-Mail (competent person)	Flexi Proof Flat Roof Systems Rugge Farm, Horsham Road, Beare Green Dorking Surrey 44(0)1306 776626 - info@flexiproof.co.uk	
1.4	Emergency telephone number Emergency Phone No. Languages spoken	U.K +44(0)1306 776626 English	9.00am – 5.00pm Monday to Friday excluding bank holidays Outside the above hours

SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixture			
2.1.1	Regulation (EC) No. 1272/2008 (CLP)	Flam. Liquids Cat 2; H225 Acute toxicity (oral), Cat 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336 Chronic Haz. Cat 2; H411		
2.2	Label elements Product Name Contains: Hazard Pictogram(s)	According to Regulation (EC) No. 1272/2008 (CLP) Sprayable Contact Adhesive		
				
	Signal Word(s)	DANGER		
	Hazard Statement(s)	H225: Highly flammable liquid and vapour. H302: Harmful if swallowed H315: Causes skin irritation. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. H411: Toxic to aquatic life with long lasting effects.		
	Precautionary Statement(s)	P302+P352: IF ON SKIN: Wash with plenty of water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.		

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Remove contact lenses, if present and easy to do. Continue rinsing.
P312: Call a POISON CENTER/doctor if you feel unwell.

ADD Label elements

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: Pressurised container - Do not pierce or burn, even after use.
P241: Use explosion-proof electrical, ventilating, lighting equipment.
P271: Use only outdoors or in a well-ventilated area.
P370+P378: In case of fire, use: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂), water spray, sand, earth to extinguish.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

The vapours are heavier than air and explosive mixtures can accumulate in low areas. Dangerous for the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 Mixtures Substances in preparations / mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	INDEX No.	REACH Registration No.	Hazard classification
Cyclohexane	20-30	110-82-7	203-806-2	601 -017-00-1	01 - 2119463273-41	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	10-20	-	927-510-4	927-510-4	-	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrocarbons, C6 isoalkanes, <5% nhexane	5-10	-	931 -254-9	-	01 - 2119484651 -34	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Ethyl acetate	5-10	141 -78-6	205-500-4	607-022-00-5	01 - 211 9475103-46	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

Inhalation

Never give anything by mouth to an unconscious person. Take victim to a doctor if irritation persists.

IF INHALED: Remove persons affected by vapour to fresh air. Apply artificial

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Skin Contact	respiration if patient is not breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
Eye Contact	IF ON SKIN (or hair): After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention.
Ingestion	IF IN EYES: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.
4.2 Most important symptoms and effects, both acute and delayed	IF SWALLOWED: Do NOT induce vomiting. If vomiting occurs turn patient on side. IF exposed or concerned: Call a POISON CENTER/doctor.
4.3 Indication of any immediate medical attention and special treatment needed	Causes skin irritation. Nausea. Dry skin. Headache. May cause drowsiness or dizziness. Eye irritation. Causes damage to the central nervous system. Contains petrol.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media Suitable Extinguishing Media Unsuitable extinguishing Media	Water Haze, foam, dry powder or CO2, sand. Do not use water jet. Direct water jet may spread the fire.
5.2 Special hazards arising from the substance or mixture	Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. Vapours are heavier than air and spread above ground. Possible ignition from a distance. Floats on water and may be ignited again.
5.3 Advice for fire-fighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If possible remove containers before using water. Keep containers cool by spraying with water if exposed to fire. Prevent fire-fighting water from entering environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Avoid contact with skin and eyes. No naked flames or sparks. In order to rule out potential electrostatic discharge production, the system must be adequately grounded. Do not inhale vapour. Stop engines and no smoking. Shut off leaks if without risks. Vapours are heavier than air and spread above ground. Evacuate all personnel that isn't necessary. Floats on water and may be ignited again. Possible ignition from a distance.
6.2 Environmental precautions	Do not allow to enter drains, sewers or watercourses.
6.3 Methods and material for containment and cleaning up	Allow small spillages to evaporate provided there is adequate ventilation. Do not pierce or burn container, even after use. Containers of this material may be hazardous when empty since they retain product residue.
6.4 Reference to other sections	See Section: 8, 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling	Ensure adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist/vapours/spray. Do not expose to temperatures exceeding 50°C/ 122°F. Keep good industrial hygiene. Wash hands thoroughly after handling. Contaminated clothing should be thoroughly cleaned. Do not eat, drink or smoke at the work place. Keep from direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Take precautionary measures against static discharge.
7.2 Conditions for safe storage, including any incompatibilities	Keep only in original container. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Opened containers should be carefully resealed and stored in an upright position.
Storage temperature Incompatible materials	Store at room temperature. Acids, Bases, Strong oxidising agents. Avoid contact with alkali metals.
7.3 Specific end use(s)	Industrial Adhesives

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Clycohexane	110-82-7	200	700	350	100	WEL
Ethyl Acetate	141-78-6	400	1461	350	100	WEL

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

8.1.2 Biological limit value

None assigned

8.1.3 PNECs and DNELs

Not established.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources.

8.2.2 Individual protection measures, such as personal protective equipment (PPE)

Keep good industrial hygiene. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist/vapours/spray. IF exposed: Wash immediately with water. Wash contaminated clothing before reuse. Do not eat, drink or smoke at the work place.

Eye/face protection



Use eye protection according to EN 166, designed to protect against spray mists.

Skin protection



Hand protection

Wear impervious gloves (EN374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Body protection

Wear suitable coveralls to prevent exposure to the skin.

Respiratory protection



In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type AX may be appropriate.

Thermal hazards

None anticipated.

8.2.3 Environmental Exposure Controls

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear or Gold
Odour	Solvent/petroleum odour.
Odour Threshold	Not established
pH	Not applicable
Melting Point/Freezing Point	-97 °C
Initial boiling point and boiling range	40 °C
Flash point	-26 °C - [Closed cup]
Evaporation Rate	Not established
Flammability (solid, gas)	Not established

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Upper/lower flammability or explosive limits	Upper limit: 19% (V) Lower limit: 12% (V)
Vapour pressure	70 psig @ 21.1 °C
Vapour density	(Air=1) 2.15
Relative density	0.84 g/mL @ 25 °C
Solubility(ies)	Insoluble (Hansen solubility test parameter)
Partition coefficient: n-octanol/water	Log Pow: 1.25
Auto-ignition temperature	> 205.1 °C
Decomposition Temperature	Not established
Viscosity	Not applicable
Explosive properties	Product is not explosive but may form flammable/explosive vapour-air mixture. Explosion Class: IIa, T3 7.4% Volume
Oxidising properties	Not established
9.2 Other information	Contains volatile component(s).

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Stable under normal conditions. Hazardous polymerisation will not occur.
10.4 Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep from direct sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. Do not spray on an open flame or other ignition source.
10.5 Incompatible materials	Acids, Bases, Strong oxidising agents. Avoid contact with alkali metals.
10.6 Hazardous decomposition product(s)	May decompose in a fire, giving off toxic and irritant vapours. Hazardous decomposition product(s): Hydrogen chloride, carbon oxides, Phosgene, Chlorine

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	All test data taken from existing ECHA registrations for the substances mentioned.
Acute toxicity	
Ingestion	Oral harmful if swallowed. LD50 (oral,rat) mg/kg: >5,000 (OECD 402)
Inhalation	Based upon the available data, the classification criteria are not met.
Skin corrosion/irritation	Skin Irrit. 2; Causes skin irritation. Based upon the available data, the classification criteria are not met
Serious eye damage/irritation	Eye Irrit. 2; Causes serious eye irritation. Based upon the available data, the classification criteria are not met
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based upon the available data, the classification criteria are not met.
Carcinogenicity	Based upon the available data, the classification criteria are not met
Reproductive toxicity	Based upon the available data, the classification criteria are not met.
STOT - single exposure	STOT SE 3; May cause drowsiness or dizziness. Based upon the available data, the classification criteria are not met
STOT - repeated exposure	Based upon the available data, the classification criteria are not met
Aspiration hazard	Based upon the available data, the classification criteria are not met.
11.2 Other information	Not determined.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Toxic, danger of pollution of drinking water when large quantities enter the soil.
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Estimated LC50 (96 hour) > 230 mg/l (Fish)

12.2	Persistence and degradability	Readily biodegradable.
12.3	Bioaccumulative potential	The product has no potential for bioaccumulation.
12.4	Mobility in soil	The product is predicted to have low mobility in soil. Insoluble in water.
12.5	Results of PBT and VPvB assessment	Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
12.6	Other adverse effects	None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Dispose of this material and its container to hazardous or special waste collection point. In accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Do not pierce or burn container, even after use.
	Additional Information	Make sure that packaging is completely empty before recycling. Containers of this material may be hazardous when empty since they retain product residue.
13.2		

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA/ICAO
14.1	UN number	3161	3161
14.2	UN proper shipping name	Chemicals under pressure, Flammable liquid	Chemicals under pressure, Flammable liquid
14.3	Transport hazard class(es)	2	2
14.4	Packing group	None assigned	None assigned
14.5	Environmental hazards	Marine Pollutant	Marine Pollutant
14.6	Special precautions for user	See Section: 2	
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable	Not applicable

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations Authorisations and/or Restrictions On Use CoRAP Substance Evaluation	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 272/2008 Cyclohexane: Substance identified for evaluation in 2016
15.1.2	National regulations	Not applicable
15.2	Chemical Safety Assessment	Not applicable

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16: New SDS format and issued, all sections have been updated to include new information.

References:

Harmonised Classification(s) for and Existing ECHA registration(s) for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty.

WEL - EH40 – UK Occupational Exposure Limits

ADD - Aerosol Dispensers Directive 75/324/EEC

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EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Literature References:

- Putz VR, Johnson BL, Setzer JV, 1979, A comparative study of the effects of carbon monoxide and methylene chloride on human performance. J Environ Pathol Toxicol 2, 97-112

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Flam.; 2; H225	CLP Article 2.3.2.2
Skin Irrit. 2; H315	Threshold Calculation
Eye Irrit. 2; H319	Threshold Calculation
STOT SE. 3; H336	Threshold Calculation
Acute toxicity (oral), Cat 4; H302	Threshold Calculation
Chronic Haz. Category 2. H411	Threshold Calculation

LEGEND

LTEL: Long Term Exposure Limit

DNEL: Derived No Effect Level

PBT: PBT: Persistent, Bioaccumulative and Toxic

STEL: Short Term Exposure Limit

PNEC: Predicted No Effect Concentration

vPvB: very Persistent and very Bioaccumulative

Hazard classification / Classification code:

Flam. Liquid; 2; Flammable , 2

Skin Irrit. 2; Skin corrosion/irritation, Category 2

Eye Irrit. 2; Eye Irritation, Category 2

STOT SE 3; Specific target organ toxicity — single exposure, Category 3

Acute toxicity (oral), Category 4.

Chronic Haz. Category 2.

Hazard Statement(s)

H225: Extremely flammable liquid.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H302: Harmful if swallowed.

H411: Harmful to aquatic life with long lasting effects.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

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