



SAFETY DATA SHEET

Tuskbond XPR0

According to Regulation (EC) No 1907/2006, Annex II

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

1.1. Product identifier

Product name	Tuskbond XPR0
Container size	13kg
REACH registration notes	All chemicals used in this product have been registered under REACH where required.

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

Identified uses	Adhesive.
Uses advised against	Flexible PVC due to the risk of plasticiser migration.

1.3. Details of the supplier of the safety data sheet

Supplier	Sanglier Limited Shelley Close Lowmoor Business Park Kirkby in Ashfield NG17 7JZ Tel: 01623 722661 (Mon-Fri 09:00-17:00) Fax: 01623 885971 Technical@sanglier.org.uk
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1.4. Emergency telephone number

Emergency telephone	UK +44 (0) 1623 722661 (Mon-Fri; 09:00-17:00)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC/1272/2008)

Physical hazards	Aerosol 1 - H222, H229
Health hazards	Not Classified
Environmental hazards	Not Classified

2.2. Label elements

Pictogram



Signal word	Danger
Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated

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Precautionary statements	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P211 Do not spray on an open flame or other ignition source.</p> <p>P251 Do not pierce or burn, even after use.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p> <p>P261 Avoid breathing vapours.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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Supplemental label information Please refer to Safety Data Sheet.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

DIMETHOXYMETHANE	30-60%
CAS number: 109-87-5	EC number: 203-714-2
	REACH registration number: 01-2119664781-31-0000

Classification

Flam. Liq. 2 - H225

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS	30-60%
CAS number: 68476-85-7	EC number: 270-704-2

Classification

Flam. Gas 1 - H220
Press. Gas, Liquefied - H280

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air at once. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Keep affected person under observation. If breathing stops, provide artificial respiration. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly with water. Get medical attention. Do not induce vomiting.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. If adhesive bonding occurs, do not force eyelids apart.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed

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General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Inhalation	Coughing, chest tightness, feeling of chest pressure. Exposure may cause coughing or wheezing. In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.
Ingestion	There may be soreness and redness of the mouth and throat.
Skin contact	Frostbite.
Eye contact	There may be irritation and redness.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Show this Safety Data Sheet to the medical personnel. Vapours may cause headache, fatigue, dizziness and nausea. Difficulty in breathing. Avoid breathing vapours.
Specific treatments	If adhesive bonding occurs, do not force eyelids apart.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray, dry powder or carbon dioxide. Alcohol-resistant foam.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up. Forms explosive mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.
Hazardous combustion products	Oxides of carbon. Acrid smoke or fumes.

5.3. Advice for firefighters

Protective actions during firefighting	Use water to keep fire exposed containers cool and disperse vapours. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with eyes and prolonged skin contact. Avoid breathing vapour/spray. Provide adequate ventilation.
For non-emergency personnel	For the greatest protection, clothing should include anti-static overalls, boots and gloves.
For emergency responders	For the greatest protection, clothing should include anti-static overalls, boots and gloves.

6.2. Environmental precautions

Environmental precautions	Contain spillage with sand, earth or other suitable non-combustible material. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Avoid water contacting spilled material or leaking containers. Approach the spillage from upwind. Take precautionary measures against static discharge. Use only non-sparking tools.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Wear protective clothing as described in Section 8 of this safety data sheet. Read and follow manufacturer's recommendations. Do not use in confined spaces without adequate ventilation and/or respirator. Do not eat, drink or smoke when using this product.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas. Wash after use and before eating, smoking and using the toilet. Do not smoke in work area. Clean equipment and the work area every day.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from sunlight. Keep in a cool, well ventilated place.

Storage class Flammable compressed gas storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Usage description Adhesive.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

DIMETHOXYMETHANE

Long-term exposure limit (8-hour TWA): WEL 1015 3160 mg/m³

Short-term exposure limit (15-minute): WEL 1269 ppm 3950 mg/m³

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m³

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m³

WEL = Workplace Exposure Limit

DIMETHOXYMETHANE (CAS: 109-87-5)

DNEL	General population - Dermal; Long term systemic effects: 5.7 mg/kg/day
	General population - Inhalation; Long term systemic effects: 39 mg/m ³
	General population - Oral; Long term systemic effects: 9.6 mg/kg/day
	Workers - Inhalation; Long term systemic effects: 132 mg/m ³
	Workers - Dermal; Long term systemic effects: 22 mg/kg/day

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PNEC

- Fresh water; 14577 mg/l
- Sediment (Freshwater); 13135 mg/kg/day
- Sediment (Marinewater); 13135 mg/kg/day
- Soil; 46538 mg/kg/day
- Marine water; 14577 mg/l
- STP; 10000 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Ensure that the direction of airflow is clearly away from the worker. Use approved respirator if air contamination is above an acceptable level. Observe any occupational exposure limits for the product or ingredients. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof electrical, ventilating and lighting equipment. Ensure operatives are trained to minimise exposure. Refer to protective measures listed in sections 7 and 8.

Personal protection

Wear protective work clothing.

Eye/face protection

Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

To protect hands from chemicals, gloves should comply with European Standard EN374. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. It is recommended that gloves are made of the following material: Butyl rubber. Thickness: 0.3mm. Break through time: 16mins

Other skin and body protection

Provide eyewash station. Avoid contact with skin. Wear suitable coveralls to prevent exposure to the skin.

Hygiene measures

Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke. Use appropriate hand lotion to prevent defatting and cracking of skin. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. For short term use an AX filter is recommended.

Thermal hazards

Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin.

Environmental exposure controls

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Amber.
Odour	Ether.
Odour threshold	Data lacking.

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pH	pH (concentrated solution): 7
Melting point	Data lacking.
Initial boiling point and range	42.3°C @ 760 mm Hg, Boiling point of Dimethoxymethane.
Flash point	Not available.
Evaporation rate	Not available.
Evaporation factor	Not available.
Flammability (solid, gas)	No specific test data are available.
Upper/lower flammability or explosive limits	Not available.
Other flammability	No specific test data are available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.86 @ 20°C Density of adhesive liquid.
Bulk density	Not applicable.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	50-250 cP @ 20°C
Explosive properties	In use may form flammable/explosive vapour-air mixture.
Explosive under the influence of a flame	Yes
Oxidising properties	Does not meet the criteria for classification as oxidising.
Comments	A flash point method is not available but the major hazardous component, the Propellant has a flash point of <-60°C with flammability limits of 10.9% vol. upper and 1.4% vol. lower.

9.2. Other information

Other information	Not available.
Volatile organic compound	This product contains a maximum VOC content of 84 %.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable under recommended transport or storage conditions.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended. Highly volatile.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Will not polymerise. In use may form flammable/explosive vapour-air mixture.
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10.4. Conditions to avoid

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Conditions to avoid Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Avoid the accumulation of vapours in low or confined areas.

10.5. Incompatible materials

Materials to avoid Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General information Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation Exposure may cause coughing or wheezing. May cause respiratory system irritation.

Ingestion Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. May cause nausea, headache, dizziness and intoxication.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Eye contact There maybe irritation and redness.

Acute and chronic health hazards Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Route of entry Inhalation Skin absorption

Target organs Central nervous system Respiratory system, lungs Skin

Medical symptoms Vapours may cause drowsiness and dizziness.

Toxicological information on ingredients.

DIMETHOXYMETHANE

Acute toxicity - oral

Notes (oral LD₅₀) 6423.0 , Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) 5000.0 , Dermal, Rabbit

Inhalation Irritating to respiratory system. Vapours may cause drowsiness and dizziness.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Irritating to skin. Repeated exposure may cause skin dryness or cracking.

Eye contact Irritating to eyes.

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Germ cell mutagenicity

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Genotoxicity - in vitro	This substance has no evidence of mutagenic properties.
<u>Carcinogenicity</u>	
Carcinogenicity	No evidence of carcinogenicity in animal studies.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	No evidence of reproductive toxicity in animal studies.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Gas or vapour is harmful on prolonged exposure or in high concentrations. High concentrations may be fatal.
<u>Aspiration hazard</u>	
Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.
Inhalation	May cause respiratory system irritation.
Skin contact	Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin.
Route of entry	Inhalation Skin and/or eye contact

SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Ecological information on ingredients.

DIMETHOXYMETHANE

Toxicity	Not considered toxic to fish.
Acute toxicity - fish	LC ₅₀ , 96 hours: 6,410 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >1200 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: >10000 mg/l, Scenedesmus subspicatus

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

Toxicity Not regarded as dangerous for the environment.

12.2. Persistence and degradability

Persistence and degradability Biodegradable in part only.

Ecological information on ingredients.

DIMETHOXYMETHANE

Persistence and degradability The product is readily biodegradable.

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PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

Persistence and degradability

The product is degraded completely by photochemical oxidation.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

Ecological information on ingredients.

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

Bioaccumulative potential Bioaccumulation is unlikely.

12.4. Mobility in soil

Ecological information on ingredients.

DIMETHOXYMETHANE

Mobility The product is soluble in water.

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

DIMETHOXYMETHANE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not available.

Ozone depletion potential

Global warming potential (GWP)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Ensure containers are empty before discarding (explosion risk). Dispose of contents/container in accordance with local regulations.

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Disposal methods Do not puncture or incinerate, even when empty. Avoid the spillage or runoff entering drains, sewers or watercourses. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

Waste class Full or Partially Empty Canister: 16 05 04 Empty Canister: 15 01 10 (Containing hazardous residue) Empty Canister: 15 01 04 (No hazardous residues)

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	3501
UN No. (IMDG)	3501
UN No. (ICAO)	3501
UN No. (ADN)	3501

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS, METHYLAL)
Proper shipping name (IMDG)	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS, METHYLAL)
Proper shipping name (ICAO)	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS, METHYLAL)
Proper shipping name (ADN)	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS, METHYLAL)

14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	8F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

Transport labels



14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS F-D, S-U

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ADR transport category	2
Emergency Action Code	2YE
Hazard Identification Number (ADR/RID)	23
Tunnel restriction code	(B/D)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended). Health and Safety at Work etc. Act 1974 (as amended).
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Guidance	Approved Classification and Labelling Guide (Sixth edition) L131. Workplace Exposure Limits EH40.
Authorisations (Title VII Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Title VIII Regulation 1907/2006)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Classification procedures according to Regulation (EC) 1272/2008	Aerosol 1 - H222, H229: Weight of evidence.
Issued by	Technical Department
Revision date	14/07/2016
Revision	1
SDS number	20771
Hazard statements in full	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.

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This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.