

SAFETY DATA SHEET Permabond 743HT

SECTION 1: Identification of t	he substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product name	Permabond 743HT	
1.2. Relevant identified uses of	of the substance or mixture and uses advised against	
Identified uses	Adhesive.	
1.3. Details of the supplier of t	the safety data sheet	
Supplier	Permabond Engineering Adhesives Ltd. Wessex Way Colden Common Winchester Hampshire SO21 1WP United Kingdom Tel: +44 (0)1962 711 661 Fax: +44 (0)1962 711 662 info.europe@permabond.com	
1.4. Emergency telephone number		
Emergency telephone	CHEMTREC UK: +(44)-870-8200418 CHEMTREC US: 800-424-9300 (CCN: 829878)	
National emergency telephone number	e CHEMTREC Ireland: +(353)-19014670 CHEMTREC Australia: +(61)-290372994 CHEMTREC New Zealand: +(64)-98010034	
SECTION 2: Hazards identific	ation	
2.1. Classification of the subst		
Physical hazards	Not Classified	
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335	
Environmental hazards	Not Classified	
2.2. Label elements Pictogram		
Signal word	Warning	
Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.	

Precautionary statements	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352a IF ON SKIN: Wash with plenty of soap and water P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/ attention.
Supplemental label information	EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
Contains	ETHYL 2-CYANOACRYLATE
Supplementary precautionary statements	 P261 Avoid breathing vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with existing Community, National and local regulations.

2.3. Other hazards

None under normal conditions. This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

ETHYL 2-CYANOACRYLATE		30-60
CAS number: 7085-85-0	EC number: 230-391-5	REACH registration number: 01- 2119527766-29-XXXX
Classification		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
STOT SE 3 - H335		

Inhalation	Move the exposed person to fresh air. Get medical attention if any discomfort continues.
Ingestion	On contact, immediate bonding of mouth could occur. Do not induce vomiting. Get medical attention.
Skin contact	On contact, immediate bonding of the skin will occur. No attempt should be made to remove material from skin or to remove contaminated clothing, as the bonded skin can be easily torn. Wash skin thoroughly with soap and water.
Eye contact	Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. If adhesive bonding occurs, do not force eyelids apart. Apply a pad soaked in warm water and allow the eyelids to separate. Get medical attention. Cured adhesive will not bond well to surface of eye, but corneal damage from abrasion may result.

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

WWW.

Inhalation

Irritation of nose, throat and airway.

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Ingestion	On contact, immediate bonding of mouth could occur.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	Irritating and may cause redness and pain.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	SKIN BONDING. Prise the skin apart slowly working from the edge of the bonded area. This can be eased by using warm soapy water. EYE BONDING. DO NOT force eyelids apart. Apply a pad soaked in warm water and allow the eye to separate itself.
SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
5.2. Special hazards arising fro	om the substance or mixture
Specific hazards	Cloths used to wipe up spills may cause rapid polymerization that could generate sufficient heat to ignite the cloth.
Hazardous combustion products	Decomposes upon heating to release toxic fumes of nitrogen oxides, carbon monoxide, carbon dioxide, and hydrogen cyanide.
5.3. Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapours.
Special protective equipment for firefighters	Use air-supplied respirator, gloves and protective goggles.
SECTION 6: Accidental releas	e measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	For personal protection, see Section 8. Provide adequate ventilation.
6.2. Environmental precaution	<u>S</u>
Environmental precautions	Do not discharge into drains or watercourses or onto the ground.
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up	Small spills: wipe up with cloth. Immediately soak cloth with water to polymerize the adhesive. Caution! Cloth containing adhesive may undergo autoignition if not soaked with water Large spills: flood area with water. When cured, remove film with a scraper.
6.4. Reference to other section	
Reference to other sections	Collect and dispose of spillage as indicated in Section 13.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe hand	ling
Usage precautions	Ensure adequate ventilation of the working area. Avoid contact with skin and eyes. Always replace cap after use.
7.2. Conditions for safe storag	e, including any incompatibilities
Storage precautions	Store in tightly-closed, original container in a dry and cool place. Keep containers upright.
7.3. Specific end use(s)	
Specific end use(s)	Adhesive.
	Adhesive.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

ETHYL 2-CYANOACRYLATE

Short-term exposure limit (15-minute): WEL 0.3 ppm 1.5 mg/m³ WEL = Workplace Exposure Limit

ETHYL 2-CYANOACRYLATE (CAS: 7085-85-0)

DNEL	Workers - Inhalation; Long term systemic effects: 9.25 mg/m ³ Workers - Inhalation; Long term local effects: 9.25 mg/m ³
PNEC	Technically not feasible.
8.2. Exposure controls	
Protective equipment	
Appropriate engineering controls	Normal (mechanical) room ventilation should be adequate for small volumes. For higher volume activities, or if needed for worker comfort, local mechanical exhaust should be provided.
Eye/face protection	Use approved safety goggles or face shield. Personal eye protection should conform to EN 166
Hand protection	It is recommended that chemical-resistant, impervious gloves are worn. Gloves should conform to EN 374. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Thickness: \geq 0.4 mm The selected gloves should have a breakthrough time of at least 0.5 hours. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber. Thickness: \geq 0.4 mm The selected gloves should have a breakthrough time of at least 8 hours. The breakthrough time for any glove material may be different for different glove manufacturers. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the gloves are retaining their protective properties and change them as soon as any deterioration is detected.
Other skin and body protection	Uniforms, coveralls, or a lab coat should be worn
Hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Wash promptly if skin becomes contaminated. Use of good industrial hygiene practices is required.
Respiratory protection	Ensure adequate ventilation of the working area. Respiratory protection may be required if excessive airborne contamination occurs. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Organic vapour filter. Type A. (EN14387)
SECTION 9: Physical and Ch	nemical Properties

9.1. Information on basic physical and chemical properties

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Appearance	

Colour

Liquid.

Odour	Pungent.	
Odour threshold	Not available.	
pH	Not applicable.	
Melting point	Not applicable.	
Initial boiling point and range	>100°C	
Flash point	83°C	
Evaporation rate	Not available.	
Upper/lower flammability or explosive limits	Not applicable.	
Vapour pressure	~0.6 mbar @ 25°C	
Vapour density	Not applicable.	
Relative density	1.1	
Bulk density	Not applicable.	
Solubility(ies)	Hardens in contact with water. Insoluble in water. Miscible with the following materials: Organic solvents.	
Partition coefficient	Not applicable.	
Auto-ignition temperature	Not available.	
Decomposition Temperature	Not available.	
Viscosity	≈15000 mPa s @ 23°C Thixotropic	
Explosive properties	Not determined.	
Oxidising properties	Not applicable.	
9.2. Other information		
SECTION 10: Stability and rea	activity	
10.1. Reactivity		
Reactivity	The product reacts with water and will generate heat.	
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures and when used as recommended.	
10.3. Possibility of hazardous	reactions	
Possibility of hazardous reactions	Reactions with the following materials may generate heat: Water Alcohols. Alkalis. Amines.	
10.4. Conditions to avoid		
Conditions to avoid	Do not add water directly to the product. It may cause a violent reaction.	
10.5. Incompatible materials		
Materials to avoid	Water. Amines. Alkalis. Alcohols.	
10.6. Hazardous decompositio	on products	
Hazardous decomposition products	Heating may generate the following products: Toxic gases/vapours/fumes of: Carbon dioxide (CO2). Carbon monoxide (CO). Nitrous gases (NOx). Hydrogen cyanide (HCN).	
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.
Other health effects	Under EU legislation the cyanoacrylates do not require classification as sensitisers and the rapid polymerisation caused on contact with moisture makes this unlikely. However the American Conference of Governmental Industrial Hygienists (ACGIH) has reported some limited evidence of skin and respiratory sensitisation. May cause allergic reactions in susceptible people.
Inhalation	Irritating to respiratory system.
Ingestion	On contact, immediate bonding of mouth could occur.
Skin contact	Irritating to skin. On contact, immediate bonding of the skin will occur.
Eye contact	Irritating to eyes. On contact, will bond eyelids together. Vapours are lachrymatory.

Toxicological information on ingredients.

ETHYL 2-CYANOACRYLATE

Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	2,000.1
Species	Rabbit
ATE dermal (mg/kg)	2,000.1
Acute toxicity - inhalation	
Notes (inhalation LC ₅₀)	Not available.
Skin corrosion/irritation	
Animal data	Dose: 0.5g, 24 hours, Rabbit Slightly irritating.
Serious eye damage/irritation	on
Serious eye damage/irritation	Method: OECD 405, Rabbit Irritating to eyes.
Skin sensitisation	
Skin sensitisation	- Guinea pig: Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	Gene mutation: Negative. Chromosome aberration: Negative. Bacterial reverse mutation test: Negative.

Carcinogenicity	
Carcinogenicity	No evidence of carcinogenicity in animal studies.
Reproductive tox	city
Reproductive tox fertility	city - Technically not feasible.
Reproductive tox development	city - Technically not feasible.
Specific target on	gan toxicity - single exposure
STOT - single ex	posure No information available.
Specific target or	gan toxicity - repeated exposure
STOT - repeated	exposure No information available.
Aspiration hazard	
Aspiration hazard	Not available.
SECTION 12: Ecological Inform	nation
Ecotoxicity	Not regarded as dangerous for the environment.
12.1. Toxicity	
Toxicity	The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.
Acute aquatic toxicity	
Acute toxicity - aquatic invertebrates	Not available.
Acute toxicity - aquatic plants	Not available.
Acute toxicity - terrestrial	Not available.
12.2. Persistence and degrada	bility
Persistence and degradability	No data available.
Biological oxygen demand	Not known.
Chemical oxygen demand	Not known.
12.3. Bioaccumulative potentia	<u>u</u>
Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	Not applicable.
Ecological information on ingre	edients.
	ETHYL 2-CYANOACRYLATE

Partition coefficient

log Kow: 0.776

12.4. Mobility in soil

Mobility

The product hardens to a solid, immobile substance.

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12.5. Results of PBT and vPvB assessment

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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	None known.
SECTION 13: Disposal conside	erations
13.1. Waste treatment method	<u>s</u>
General information	Waste disposal should be in accordance with existing Community, National and local regulations Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.
Disposal methods	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
Waste class	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances.
SECTION 14: Transport inform	nation
Road transport notes	Not classified.
Rail transport notes	Not classified.
Sea transport notes	Not classified.
Air transport notes	Applies only to inner containers > 500ml.
14.1. UN number	
UN No. (ADR/RID)	Not applicable
UN No. (IMDG)	Not applicable
UN No. (ICAO)	3334
UN No. (ADN)	Not applicable
14.2. UN proper shipping name	9
Proper shipping name (ADR/RID)	Not applicable
Proper shipping name (IMDG)	Not applicable
Proper shipping name (ICAO)	AVIATION REGULATED LIQUID, N.O.S. (contains ethyl 2-cyanoacrylate)
Proper shipping name (ADN)	Not applicable
14.3. Transport hazard class(e	<u>s)</u>
ICAO class/division	9
Transport labels	
14.4. Packing group	
ICAO packing group	III
14.5. Environmental hazards	

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

None under normal conditions.

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

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

SECTION 15: Regulatory information

National regulations	Health and Safety at Work etc. Act 1974 (as amended).
	The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
	Rivers (Prevention of Pollution) Act 1961.
	Control of Pollution (Special Waste) Regulations 1980 (as amended). Control of Pollution Act 1974.
	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
	Control of Substances Hazardous to Health Regulations 2002 (as amended).
EU legislation	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).
	COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No
	1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
Guidance	Workplace Exposure Limits EH40.
	Introduction to Local Exhaust Ventilation HS(G)37.
	CHIP for everyone HSG228.
	Approved Classification and Labelling Guide (Sixth edition) L131.
	Safety Data Sheets for Substances and Preparations.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date	27/04/2018
Revision	3
Supersedes date	27/04/2018
Hazard statements in full	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

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.