Material Safety Data Sheet

Infosafe No™ LPYQ1 Issue Date : January 2010 ISSUED by HBFULL

Product Name **EASY CLEAR**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	EASY CLEAR
Company Name	H.B. FULLER COMPANY (ABN 003 638 435)
Address	16-22 Red Gum Drive Dandenong South Victoria 3175 Australia
Emergency Tel.	AUS: 1800 033111 (or IDD +61 3 9663 2130), NZ: 0800 734 607 (Or IDD +64 473 4607)
Telephone/Fax Number	Tel: Customer Service Toll Free Numbers: Australia 1800 423 855; New Zealand: 0800 555 072
Recommended Use	Elastomer based Sealant for use in the building industry.

2. HAZARDS IDENTIFICATION

Hazard Classification	HAZARDOUS SUBSTANCE. DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s)	R11 Highly flammable. R38 Irritating to skin. R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation. R63 Possible risk of harm to the unborn child. R67 Vapours may cause drowsiness and dizziness
Safety Phrase(s)	S16 Keep away from sources of ignition - No smoking. S23 Do not breathe gas/fumes/vapour/spray S24 Avoid contact with skin. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell seek medical advice immediately S9 Keep container in a well ventilated place.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	**Name**	**CAS**	**Proportion**
	Toluene	108-88-3	10-30 %
	Ingredients determined not to be hazardous.		Balance

4. FIRST AID MEASURES

Inhalation	If inhaled, remove affected person from contaminated area. Ensure airways are clear. Keep at rest until recovered. If symptoms develop or persist seek medical attention.
Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.
Skin	If skin or hair contact occurs remove contaminated clothing and wash contaminated skin and hair with plenty of soap and running water. Wash contaminated clothing before re-use. If irritation occurs seek medical advice.
Eye	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed off completely. If symptoms develop, seek medical attention.
First Aid Facilities	Eye wash and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126) or a doctor at once.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Foam, carbon dioxide or dry chemical.

Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes and gases including low molecular weight hydrocarbons, oxides of nitrogen, formaldehyde, silicon dioxide, carbon monoxide and carbon dioxide.
Specific Hazards	Highly Flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.
Hazchem Code	•3Y
Precautions in connection with Fire	Fire fighters should wear full protective clothing and self-contained breathing apparatus operawted in positive pressure mode. Water spray may be used to keep fire exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye exposure. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Work from suitable, labelled, fire-resistant containers. Open containers carefully as they may be under pressure. Keep containers closed when not in use. Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges. Earth or bond all equipment. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.
Conditions for Safe Storage	Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all applicable local and national regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

No exposure standards have been established for the mixture by the National Occupational Health & Safety Commission (NOHSC), Australia. However, over-exposure to some chemicals may result in aggravation of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels. The available exposure standards for the ingredients are as follows:

Australian National Occupational Health And Safety Commission (NOHSC) Exposure Standards:

Substance	TWA		STEL		NOTES
	ppm	mg/m³	ppm	mg/m³	
Toluene	50	191	150	574	Sk

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal

	eight-hour workday. 'Sk' Notice: Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.
Biological Limit Values	No biological limit allocated for product. However for ingredient toluene BEI from American Conference of Industrial Hygienists (ACGIH) is as follows: Determinant — Sampling Time — Biological Exposure Indice (BEI) TOLUENE [108-88-3] o-Cresol in urine — End of shift — 0.5mg/L Hippuric acid in urine — End of shift — 1.6g/g creatinine Toluene in blood — Prior to last shift of workweek — 0.05mg/L
Engineering Controls	Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 2430.3.1:1997 : Classification of hazardous areas - Examples of area classification - General, for further information concerning ventilation requirements.
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then respiratory protection should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
Eye Protection	Safety glasses with side shields, chemical goggles, or face shield as appropriate required. Final choice of appropriate eye/face protection will vary according to individual circumstances ie. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform to Australian/New Zealand Standard AS/NZS 1337- Eye Protectors for Industrial Applications.
Hand Protection	Impervious gloves recommended. Final choice of appropriate gloves will vary according to individual circumstances ie. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161 Occupational protective gloves- Selection, use and maintenance.
Body Protection	Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist, including chemical resistant apron where clothing is likely to be contaminated. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Crystal clear paste
Odour	Not available
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Insoluble
Specific Gravity	0.98 approx.
pH Value	Not applicable
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Evaporation Rate	Not available
Viscosity	250,000-300,000 cP at 20°C (Dynamic)
Volatile Component	VOC content: 294 g per litre (Californian South coast air quality management rule 1168)
Flash Point	-2°C.
Flammability	Highly Flammable

Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Extremes of temperature, Sources of ignition.
Incompatible Materials	Oxidising agents.
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes including low molecular weight hydrocarbons, oxides of nitrogen, formaldehyde, silicon dioxide, carbon monoxide and carbon dioxide.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data are available for this specific product. The available data for the ingredients are as follows: For toluene: LD50 (Oral, Rat): 636 mg/kg LC50 (Inhalation, Rat): 49 g/m³/4h
Inhalation	Vapours may cause drowsiness and dizziness. May be irritating to mucous membranes and respiratory tract.
Ingestion	May irritate the gastric tract causing nausea and vomiting.
Skin	Irritating to the skin. Can cause redness and itching.
Eye	May be irritating to the eyes. Eye contact may cause tearing, stinging, blurred vision and redness.
Chronic Effects	Danger of serious damage to health by prolonged exposure through inhalation.
Reproductive Toxicity	Possible risk of harm to the unborn child. This product is classified by NOHSC as Toxic to reproduction Category 3 : - substances that cause concern for humans owing to possible developmental toxicity effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Data not available for product.
Persistence / Degradability	Not available
Mobility	Not available
Environ. Protection	Do not allow product to enter drains, waterways or sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Dispose of waste according to applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Advise flammable nature.

14. TRANSPORT INFORMATION

Transport Information	This material is classified as a Class 3 (Flammable Liquid) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code). Dangerous goods of Class 3 (Flammable Liquid) are incompatible in a placard load with any of the following:

	- Class 1, Explosive - Class 2.1, Flammable Gas, if both the Class 3 and Class 2.1 dangerous goods are in bulk - Class 2.3, Toxic Gas - Class 4.2, Spontaneously Combustible Substance - Class 5.1, Oxidising Agent - Class 5.2, Organic Peroxide - Class 6, Toxic and Infectious Substances, if the Class 3 dangerous goods are nitromethane - Class 7, Radioactive Substance
U.N. Number	1133
Proper Shipping Name	ADHESIVES - containing flammable liquid
DG Class	3
Hazchem Code	•3Y
Packing Group	III
EPG Number	3A1
IERG Number	14
Other Information	This product complies with the requirements of subsections 2.3.2.2 and 2.3.2.3 as specified by the Australian Code for the Transport of Dangerous Goods by Road and Rail 7th Edition.

15. REGULATORY INFORMATION

Regulatory Information	Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
Hazard Category	Harmful,Irritant,Highly Flammable

16. OTHER INFORMATION

Date of preparation or last revision of MSDS	MSDS created: January 2010.

...End Of MSDS...