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Safety Data Sheet (SDS) for:

HOLDFAST® Gorilla® Glue 3 Hour Cure Premium Wood Adhesive

1. Identification of the Substance or Mixture and Supplier

- 1.1 Product name:**
HOLDFAST® Gorilla® Glue 3 Hour Cure Premium Wood Adhesive
- 1.2 Product code:**
01495 (1 kg), 01496 (60 ml), 01497 (100 ml), 01498 (250 g), 01499 (500 g), 06535 (60 ml), 20065 (5 kg)
- 1.3 Recommended use:**
Wood adhesive
- 1.4 HSNO group standard:**
HSR002662
- 1.5 UN number, shipping name and packaging group:**
1133, adhesives, containing a flammable liquid, III
- 1.6 Supplier contact details:**
- | | |
|-----------------|-----------------------------|
| Holdfast NZ Ltd | Freephone: 0800 70 10 80 |
| 14 Avalon Drive | Phone: (07) 847 5540 |
| Nawton | Fax: (07) 847 0324 |
| Hamilton 3200 | Email: sales@holdfast.co.nz |
| New Zealand | Website: www.holdfast.co.nz |

POISON CENTRE NUMBER: 0800 764 766 (24 hours)

2. Hazards Identification

2.1 Hazardous Substances and New Organisms (HSNO) classification:

Classification	Hazard statement
3.1C	Flammable liquid - medium hazard
6.1E (oral)	Substances that are acutely toxic –May be harmful, Aspiration hazard
6.1D (inhalation)	Substances that are acutely toxic - Harmful
6.3A	Substances that are irritating to the skin
6.4A	Substances that are irritating to the eye
6.5A	Substances that are respiratory sensitisers
6.5B	Substances that are contact sensitisers
6.7B	Substances that are suspected human carcinogens
6.8B	Substances that are suspected human reproductive or developmental toxicants
6.9A	Substances that are toxic to human target organs or systems
9.1D	Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action

2.2 Symbols:

DANGER



2.3 Precautionary statements:

Keep out of reach of children.
 Read label before use.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat/sparks/open flames/hot surfaces/ ignition sources. No smoking.
 Keep container tightly closed.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Avoid breathing dust/fume/gas/mist/vapours/spray.
 Wash hands thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing should not be allowed out of the workplace.
 Avoid release to the environment.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Use personal protective equipment as required.
 In case of inadequate ventilation wear respiratory protection.

3. Composition/Information on Ingredients

3.1 Information on the ingredients used in the substance:

Ingredient	CAS No.	Individual HSNO classification	Concentration (%)
Xylene	1330-20-7	3.1C, 6.1D (oral, dermal), 6.1E (inhalation), 6.3A, 6.4A, 6.8B, 6.9B (oral, inhalation), 9.1D (crustacean, fish, algal), 9.3C	<12.5%
Ethylbenzene	100-41-4	3.1B, 6.1D (inhalation), 6.1E (oral), 6.3B, 6.4A, 6.7B, 6.8B, 6.9B (inhalation), 9.1D (algal, fish, crustacean), 9.2D	1-25%
Polymethylene polyphenyl isocyanate	9016-87-9	6.1B (inhalation), 6.3B, 6.4A, 6.9A (inhalation)	>25%
4,4-diphenylmethane diisocyanate	101-68-8	6.1B (inhalation), 6.1E (oral), 6.3A, 6.4A, 6.5A, 6.5B, 6.9A (inhalation).	Trace amounts may persist in product.

4. First Aid Measures

4.1 Skin contact:

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing and wash before re-use. Wash with plenty of soap and water. Get medical advice/ attention. Rinse skin with water/shower. In case of fire: Use water spray/polyvalent foam/inert material for extinction. IF exposed or concerned or skin irritation or rash occurs: Get medical advice/attention.

4.2 Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned or if eye irritation persists: Get medical advice/attention.

4.3 Inhalation:

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms or you feel unwell: Call a POISON CENTER or doctor/physician. If medical advice is needed, have product container or label at hand.

4.4 Ingestion:

Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth with water. Do not induce vomiting. IF exposed or concerned: Get medical advice/ attention. If medical advice is needed, have product container or label at hand.

4.5 Advice for physicians:

Treat symptomatically.

5. Fire-Fighting Measures

5.1 Extinguishing media:

Use water spray, polyvalent foam, BC powder or carbon dioxide.

5.2 Special hazards due to combustion:

Sparks may ignite product. Combustion or heating will result in the release of toxic and corrosive gases and vapours (nitrous vapours, hydrogen cyanide, carbon monoxide, carbon dioxide).

5.3 Advice for fire-fighters:

If exposed to fire cool closed containers with water spray. Dilute toxic gases and vapours with water spray. When exposed to heat or fire wear gloves, protective goggles, protective clothing, compressed air or oxygen apparatus

5.4 Hazchem code:

No data.

6. Accidental Release Measures

6.1 Personal precautions:

Wear safety goggles, protective clothing and a respirator with filter type A when dealing with product spills and accidents. Increase ventilation around accident and avoid working in direct line of vapour pathway.

6.2 Environmental precautions:

Dam up solid spill. Prevent product entering soil, water and sewers. Use adequate containment to avoid environmental contamination.

6.3 Methods for cleaning up:

Allow product so solidify and remove mechanically. Collect all leftover product. Clean contaminated surfaces with acetone. Wash clothing and equipment after handling.

6.4 Disposal:

This product may be disposed of in a landfill. Contact local and regional authorities for further details.

7. Handling and Storage

7.1 Handling:

Maintain a high level of hygiene when using this product, avoid contact. Use product around spark/explosionproof appliances and lighting systems. Do not use product around naked flames, heat and ignition sources.

7.2 Storage:

Store locked up. Store in a well-ventilated place at room temperature. Keep cool. Store for a maximum of 1 year.

8. Exposure Controls/Personal Protection

8.1 Exposure limits:

CAS no.	Substance or ingredient	WES-TWA	WES-STEL
1330-20-7	Xylene	50 ppm, 217 mg/m ³ (WES NZ)	100 ppm, 441 mg/m ³ (EH40 UK)
100-41-4	Ethylbenzene	100 ppm, 434 mg/m ³ (WES NZ)	125 ppm, 543 mg/m ³ (WES NZ)
9016-87-9	Polymethylene polyphenyl isocyanate	No data.	No data.
101-68-8	4,4-diphenylmethane diisocyanate	No data.	No data.

8.2 Engineering controls:

Use product only in well ventilated areas. Avoid contact with heat, oxidising agents and ignition sources.

8.3 Exposure controls:

Control	Protective measure
Eye	Use safety goggles to prevent product entering eye.
Respiratory	Use respirator with filter type A to avoid product entering airways (when working near WES).
Skin	Use protective clothing to avoid product contacting skin. Always remove and replace contaminated clothing.

9. Physical and Chemical Properties

9.1 General substance properties:

Property	Details
Appearance	Brown liquid

Odour	Solvent-like odour
pH	No data.
Vapour pressure	No data.
Viscosity	No data.
Boiling Point	No data.
Volatile materials	Volatile organic compounds (VOC) of 7%, 77 g/L
Freezing/melting point	No data.
Solubility	Soluble in organic solvents
Specific gravity/density	Relative density of 1.1. Relative vapour density of >2.
Flash point	35°C
Danger of explosion	No data.
Auto-ignition temperature	No data.
Upper and lower flammability limits	No data.
Corrosiveness	No data.

10. Stability and Reactivity

10.1 Stability:

Stable under normal conditions.

10.2 Conditions to avoid:

Avoid heat and ignition sources.

10.3 Incompatible materials to avoid:

Avoid strong acids and strong bases.

10.4 Hazardous decomposition products:

Sparks may ignite product. Combustion or heating will result in the release of toxic and corrosive gases and vapours (nitrous vapours, hydrogen cyanide, carbon monoxide, carbon dioxide).

11. Toxicological Information

11.1 Summary of toxicity

This product is considered acutely harmful, a skin and eye irritant and a respiratory and skin sensitizer.

11.2 Acute toxicity:

Test	Data and symptoms of exposure
Oral	Final product is considered harmful (may be toxic)(6.1E (oral), LD50 of 2,000-5,000 mg/kg). Constituents include xylene (<12.5%, 6.1D (oral)), ethylbenzene (1-25%, 6.1E (oral)).
Dermal	Final product is not considered a dermal toxicant. Xylene (<12.5%, 6.1D (dermal)) is considered a dermal toxicant but falls below HSNO classification.
Inhaled	Final product is considered harmful (6.1D (inhalation), LC50 of 10 mg/L-20 mg/L (vapour)). Constituents include xylene (<12.5%, 6.1E (inhalation)), ethylbenzene (1-25%, 6.1D (inhalation)), polymethylene polyphenyl isocyanate (>25%, 6.1B (inhalation)).
Eye	Final product is considered irritating to the eye (6.4A). Constituents include xylene (<12.5%, 6.4A), ethylbenzene (1-25%, 6.4A), polymethylene polyphenyl isocyanate (>25%, 6.4A).
Skin	Final product is considered irritating to the skin (6.3A). Constituents include xylene (<12.5%, 6.3A), ethylbenzene (1-25%, 6.3B), polymethylene polyphenyl isocyanate (>25%, 6.3B).

11.3 Chronic toxicity:

Test	Data and symptoms of exposure
Sensitisation	Final product is considered a respiratory and contact sensitiser (6.5A, 6.5B).
Mutagenicity	No evidence of mutagenicity.
Carcinogenicity	Final product considered a suspected human carcinogen. Constituents include ethylbenzene (1-25%, 6.7B).
Reproductive/developmental	Final product is considered a suspected human reproductive or developmental toxicant. Constituents include xylene (<12.5%, 6.8B), ethylbenzene (1-25%, 6.8B).
Systemic/targeted organs	Final product is considered to target systemic/target organs (6.9A). Constituents include xylene (<12.5%, 6.9B), ethylbenzene (1-25%, 6.9B), polymethylene polyphenyl isocyanate (>25%, 6.9A).

12. Ecological Information

12.1 Ecological properties

Ecology	Ecological data
Aquatic ecotoxicity	Final product is considered slightly harmful to the aquatic environment (9.1D). Constituents include xylene (<12.5%, 9.1D (crustacean, fish, algal)), ethylbenzene (1-25%, 9.1D (algal, fish, crustacean)).
Soil ecotoxicity	Final product is not considered ecotoxic in the soil environment. Ethylbenzene (1-25%, 9.2D) is considered slightly harmful in the soil environment but falls below HSNO classification.
Terrestrial vertebrate	Final product is considered harmful (may be toxic)(6.1E (oral), 6.1D (inhalation), LD50 of 2,000-5,000 mg/kg). Constituents include xylene (<12.5%, 9.3C, 6.1D (oral), 6.1E (inhalation), ethylbenzene (1-25%, 6.1E (oral), 6.1D (inhalation)), polymethylene polyphenyl isocyanate (>25%, 6.1B (inhalation)).
Terrestrial invertebrate	No data.
Mobility	VOC of 7%, 77 g/L.
Degradability	Final product contains non-readily degradable components.

13. Disposal Considerations

13.1 Disposal methods:

This product may be treated by burning in an incineration facility. Burning must be managed to the performance requirements of regulation 6(3)(b) of the Hazardous Substances (Disposal) Regulations 2001. This product may also be disposed of in a landfill provided this product is kept separated from contact with explosives, oxidisers and ignition sources at all times. Further details can be provided by the local and regional authorities in regards to compliance with the Resource Management Act.

13.2 Disposal restrictions:

The burning operation must not exceed any relevant exposure limits and/or environmental exposure limits set for the substance or any of its components. Disposal in a landfill may only be performed where this product is kept separated from contact with explosives, oxidisers and ignition sources at all times. Disposal in a landfill must also not exceed any relevant exposure limits and/or environmental exposure limits set for the substance or any of its components. Were the substance to ignite, no person or place where a person may legally be, would be exposed to more blast overpressure or heat radiation than that described in regulation 6(3)(b) of the Hazardous Substances (Disposal) Regulations 2001. Disposal of packaging must rendered it incapable of containing any substance and be disposed of in a manner that is consistent with that of the substance it contained. Further details can be provided by the local and regional authorities in regards to compliance with the Resource Management Act

13.3 Special precautions for disposal:

No data.

14. Transport Information

14.1 Dangerous goods transport information:

Identification	Details	Identification	Details
UN number	1133	Proper shipping name	Adhesives, containing a flammable liquid
UN class	3	Subsidiary risk	Respiratory and contact sensitiser
UN packing group	III	Hazchem code	No data.

14.2 Transport provisions by land according to the Standard for the Transport of Dangerous Goods on Land (NZS 5433):

Product code: 01495 (1 kg), 01496 (60 ml), 01497 (100 ml), 01498 (250 g), 01499 (500 g), 06535 (60 ml), 20065 (5 kg)

Where the product is being transported in quantities >500 L, a motor vehicle must have two fire extinguishers present. In passenger vehicles each package containing this product must be ≤2.5 L.

14.3 Transport provisions by sea according to the International Maritime Dangerous Goods (IMDG) code:

No data.

14.4 Transport provisions by air according to International Civil Aviation Organization (ICAO) Technical Instructions:

No data.

15. Regulatory Information

15.1 HSNO approval number and Group Standard:

Groups Standard: HSR002662

15.2 Group Standard conditions and other regulations:

Condition	Requirement
MSDS	Safety data sheet must be available to a person handling the substance within 10 minutes.
Labelling	Never remove label or decant into other incompatible or incorrectly marked containers.
Emergency plan	Required when storing >1000 L.
Approved handler	Not required.
Tracking	Not required.
Bunding and secondary containment	Required when storing >1000 L.
Signage	Required when storing >1000 L.
Test certificate	Required when storing >500 L (closed containers >5 L), >1,500 L (closed containers <5 L), >250 L (open containers).
Flammable zone	Required when storing >1000 L. Hazardous atmosphere zone required when storing >100 L (open containers), >25 L (decanting), >5 L (open occasionally), >1 L (open containers in continuous use).
Fire extinguisher	Required when storing >500 L.

16. Other Information

16.1 Date of preparation or revision:

Revised August 2013

16.2 Abbreviations:

Abbreviation	Description
CAS number	Number assigned to chemical in the Chemical Abstracts Service registry
HAZCHEM code	Code used by fire-fighters to determine correct method of action in the case of fire
HSNO	Hazardous Substances and New Organisms (Act)
ICAO Technical Instructions	International Civil Aviation Organization Technical Instructions
IMDG code	International Maritime Dangerous Goods code controlled by the International Maritime Organization (IMO)
LC ₅₀	Lethal concentration 50% - concentration fatal to 50% of the tested population
LD ₅₀	Lethal dose 50% - dose fatal to 50% of the tested population
NZS 5433	New Zealand Standard 5433 (Standard for the Transport of Dangerous Goods on Land)
SDS	Safety data sheet
STEL	Short term exposure limit
TWA	Time weighted average (typically measured as 8 hours)

UN number	United nations number
WES	Workplace exposure standard

16.3 References

Chemical properties and HSNO classifications derived from the New Zealand chemical classification information database (CCID). www.epa.govt.nz.

Workplace exposure limits derived from Workplace Exposure Standards and Biological Exposure Indices 7th Edition. www.mbie.govt.nz, EH40 2005 Workplace Exposure limits.

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