HOLDFAST Right First Time! — Innovation Plus Imagination

HOLDFAST® GORILLA GLUE PREMIUM WOOD ADHESIVE
MATERIAL SAFETY DATA SHEET

1. Identification of the Substance/Preparation

1.1 Identification of the substance or preparation:

Product Name: HOLDFAST® Gorilla Glue Premium Wood Adhesive

1.2 Product Code:
01496 (60ml), 06535 (60ml Blistered), 01497 (100ml), 01498 (2520ml), 01499 (500ml)

1.3 Product Description:
Is a one component, ready to use Polyurethane based adhesive with excellent water resistance.

2. Physical and Chemical Properties

Form:	Liquid (at 20˚C)
Explosion limits:	1.0 – 7.0 Vol%
Vapour pressure (at 20˚):	8 hPa
Relative density (at 20˚C):	1.1
Water solubility:	Insoluble
Soluble in:	Organic solvents
Colour:	Brown
Odour:	Solvent
Viscosity (at 20˚C):	6 Pa.s
HSNO Classification:	3.1C, 6.1D (Inhalation), 6.3A, 6.4A, 6.5A, 6.5B

3. Hazards Identification

- Flammable
- Harmful by inhalation
- Irritating to eyes, respiratory system and skin
- May cause sensitization by inhalation and skin contact

	CAS - Nr	CONC.	SYMBOL	R-phrases
2,2' –dimorpholinyldietheyl ether	6425-39-4 229-194-7	< 20	Xi	36/38 (1)
Xylene, mixture of isomers	1330-20-7 215-535-7	< 12.5	Xn	10-20/21-38 (1)
polymethylenepolyphenylisocyanate	9016-87-9	> 25	Xn	20-36/37/38-42/43 (1)

4. First Aid Measures

Swallowed:	Never give water to an unconscious person. Do not induce vomiting. Seek medical advice.
Eye Contact:	Rinse immediately with plenty of water. Seek medical advice.
Skin Absorption:	Rinse immediately with plenty of water. If irritation persists: seek medical advice.
Inhalation:	Remove the victim into fresh air. Seek medical advice.

5. Fire-Fighting Measures

Fire Extinguishing Media:	Polyvalent foam, BC powder, Carbon Dioxide.
Special Exposure Hazards:	Heat/fire exposure: release of toxic and corrosive gases/vapours: nitrous vapours, carbon monoxide and carbon dioxide. Gas/vapour flammable with air within explosion limits.
Instructions:	Dilute toxic gases with water spray.
Special protective equipment for fire-fighters:	Heat/fire exposure: compressed air/oxygen apparatus.

6. Accidental Release Measures

Environmental precautions:	Use appropriate containment to avoid environmental contamination.
Methods of cleaning up:	Take up liquid spill into absorbent material e.g. Sand/earth. Take collected spill to competent authority. Wash clothing and equipment after handling.

7. Handling and Storage

Handling: Observe very strict hygiene – avoid contact. In case of insufficient ventilation: keep naked flames/sparks away. Do not discharge the waste into the drain. Remove contaminated clothing immediately. Clean contaminated clothing.

Storage: Keep container tightly closed. Keep away from: heat sources, ignition sources.

Storage temperature:	Room temperature.
Storage life:	365 days.
Materials for packaging:	Plastic.

8. Stability and Reactivity

Conditions to Avoid:	Stable under normal circumstances.
Incompatibility Materials to Avoid:	Heat sources, ignition sources.
Hazardous Decomposition:	Heat/fire exposure: release of toxic and corrosive gases/vapours: nitrous vapours, carbon monoxide and carbon dioxide.

9. Toxicological Information

Routes of exposure:	Ingestion, inhalation, eye and skin.
Eyes:	Irritation of the eye tissue.
Skin:	Tingling/irritation of the skin.

Inhalation:	Dry/sore throat, Coughing, Runny nose, Irritation of the respiratory tract, Irritation of the nasal mucous membranes, Inflammation of the respiratory tract.		
Ingestion:	Irritation of the gastric/intestinal mucosa.		
Exposure to high concentrations:	Risk of pneumonia and respiratory difficulties.		
Symptoms may appear later:	Risk of lung oedema.		
5 Chronic effects:	May cause sensitization by skin contact. May cause sensitization by inhalation. Contains substance with uncertain carcinogenic properties (xylene) (polymethylenepolyphenylisocyanate).		
Continuous exposure:	Itching, skin rash/inflammation, may stain the skin, feeling of weakness, coughing, inflammation of the respiratory tract, respiratory difficulties.		
Exposure limit values:			
Xylene, mixture of isomers:	TLV-TWA		100ppm
	TLV-STEL		150ppm
	OES-LTEL	441 mg/m3	100ppm
	OES-STEL	662 mg/m3	150ppm
	MAK	440 mg/m3	100ppm
	MAC-TGG 8h	210 mg/m3	
	VME-8 h	435 mg/m3	100ppm
	VLE-15 min	660 mg/m3	150ppm
	EC	221 mg/m3	50ppm
	EC-STEL	442 mg/m3	100ppm
	MEL-LTEL	0.02 (-NCO)	
	MEL-STEL	0.07 (-NCO)	
Acute toxicity:			
Xylene, mixture of isomers:			
	LD50 oral rat:	> 4300 mg/kg	
	LD50 dermal rabbit:	>2000 mg/kg	
	LD50 dermal rabbit:	>1700 mg/kg	
	LC50 inhalation rat:	22 mg/1/4 h	
	LC50 inhalation rat:	5000 ppm/4 h	
Polymethlenepolyphenylisocyanate:	LD50 oral rat:	>10000 mg/kg	
	LD50 dermal rabbit:	>5000 mg/kg	
Chronic toxicity:			
Xylene, misture of isomers:	Carcinogenicity (TLV):	A4	
	Teratogenicity (MAK):	Group D	
	IARC classification:	3	
Polymethlenepolyphenylisocyanate:	Carcinogenicity (MAK):	category 3B	
	IARC classification:	3	

10. Ecological Information

Ecotoxicity:	
Xylene, mixture of isomers:	LC50 (96h): 3.77 mg/1 (slamo gairdeneri/oncorhynchus mykiss) EC50 (48h): 7.4 mg/1 (daphnia magna) EC50 (72h): 10 mg/1 (skeletonema costatum)
Mobility:	Volatile organic compounds: 3% Insoluble in water
Other adverse effects:	WGK: 1

Not dangerous for the ozone layer (1999/45/EC)

11. Disposal Considerations

Provisions relating to waste:	waste material code (91/689/EEC, council decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 04 09 (waste adhesives and sealants containg organic solvents or other dangerous substances). Waste material code (Flaunders): 034; 516. Hazardous waste (91/689/EEC).
Disposal Methods:	Incinerate under surveillance. Do not discharge into surface water.
Packaging:	Waste material code packaging (91/689/EEC, council Dicision 2001/118/EC, O.J. L47 of 16/2/2001) : 15 01 10 (packaging containg residues of or contaminated by dangerous substances.

12. Transport Information

Classification of the substance incompliance with UN Recommendations:
UN Number: 1133
Class: 3
Packing: III
Proper shipping name: UN 1133, Adhesives, non viscous

ADR (transport by road):
Class: 3
Packing: III
Danger label tanks: 3
Danger label packages: 3

RID (transport by rail):
Class: 3
Packing: III
Danger label tanks: 3
Danger label packages: 3

ADNR (transport by inland waterways):
Class: 3
Packing: III
Danger label tanks: 3
Danger label packages: 3

IMDG (maritime transport):
Class: 3
Packing: III
EMS: F-E, S-D

ICAO (air transport):
Class: 3
Packing: III

13. Regulatory Information

Labelling according to EC-Directives 67/548/EEC en 1999/45/EC

Contains:	polymethylenepolyphenylisocyanate
R10:	Flammable
R20:	Harmful by inhalation
R36/37/38:	Irritating to eyes, respiratory system and skin
R42/43:	May cause sensitization by inhalation and skin contact
S(02):	Keep out of reach of children
S23:	Do not breathe vapour
S36/37:	Wear suitable protective clothing and gloves
S45:	In case of accident or if you feel unwell, seek medical advice
S(63):	In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Contains isocyanates.

14. Other Information

Additional Information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Exposure limits:

TLV:	Threshold Limit Value – ACGIH US 2000
OES:	Occupational Exposure Standards – United Kingdom 1999
MEL:	Maximum Exposure Limits – United Kingdom 1999
MAK:	Maximale Arbeitsplatzkonsentrationen – Germany 2001
TRK:	Technische Richtkonzentrationen – Germany 2001
MAC:	Maximale aanvaarde Concentratie – Netherlands 2002
VME:	Valeurs limites de Moyenne d'Exposition – France 1999
GWBB:	Grenswaarde beroepsmatige blootstelling – Belgium 1998
GWK:	Grenswaarde kortstondige blootstelling 0 Belgium 1998
EC:	Indicative occupational exposure limit values – directive 2000/39/EC

I: Inhalable fraction = T: Total dust = E: Einatembarer Aerosolanteil
R: Respirable fraction = A: Alveolengangiger Aerosolanteil/Alveolar dust
C: Ceiling limit

a: aerosol		r: rook/Rauch	(fume)
d: damp	(vapour)	st: stof/staub	(dust)
du: dust		ve: vezel	(fibre)
fa: Faser	(fibre)	va: vapour	
fi: fibre		om: oil mist	
fu: fume		on: olienevel/olnebel	(oil mist)
p: poussiere	(dust)	part: particles	

Chronic toxicity:
K: List of the carcinogenic substances and processes – Netherlands 2002

Health and Safety Recommendation

– Apply the usual industrial hygiene

Last Updated: 22 November 2010