

Date Revised: 8/12/2016

Version 1.0

FOR CHEMICAL EMERGENCY:

During Business Hours: (800) 966-3458 | Outside Business Hours: (800) 420-7186

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product identifier	
	Product Name	Gorilla Epoxy - Hardener.
	Synonym(s)	Epoxy Hardener.
	CAS No.	Mixture.
	EINECS No.	Mixture.
1.2	Relevant identified uses of the substance or	
	mixture and uses advised against	
	Identified use(s)	Ероху.
	Uses advised against	None known.
1.3	Details of the supplier of the Safety Data	
	Sheet	
	Company Identification	Gorilla Glue Europe Ltd.
		Chorley Business & Technology Centre
		East Terrace
		Euxton Lane
		Chorley PR7 6TE, United Kingdom.
	Telephone	01257 241319
	Fax	01257 273820
	E-mail	eusales@gorillaglue.com
1.4	Emergency telephone number	
	National Poisons Information Service	111
	Emergency Phone No.	+44 (0) 1257 241319 (During Business Hours)
		+1 651-603-3429 (Outside Business Hours)

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP)

Skin Irrit. 2; Causes skin irritation. Skin Sens. 1; May cause an allergic skin reaction. Eye Dam. 1; Causes serious eye damage.

2.2 Label elements Product Name

Hazard pictogram(s)

Signal word(s) Hazardous Ingredient(s) Hazard statement(s) According to Regulation (EC) No. 1272/2008 (CLP) Gorilla Expoxy - Hardener.



Danger. Isophorone diamine. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. EUH205: Contains epoxy constituents. May produce an allergic reaction.



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Precautionary statement(s)

P102: Keep out of reach of children.
P261: Avoid breathing mist/ vapours/ spray.
P280: Wear protective gloves/protective clothing/eye protection.
P302+P352: IF ON SKIN: Wash with plenty of 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.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P501: Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3 Other hazards May cause respiratory irritation.

2.4 Additional Information For full text of H/P statements see section 16.

Note: *Gorilla Epoxy* contains isophorondiamine CAS No. 2855-13-2 which, according to Annex 1, Table 3.2.3 of CLP carries the H314: corrosive classification. Product level dermal corrosivity testing for Gorilla Epoxy confirms the product is classified as a skin irritant rather than corrosive. Positive results in a valid and accepted skin corrosion test (Corrositex test) classifies the mixture as Non-corrosive utilizing multiple replicate samples indicating highly reproducible results. As a result, the health hazard and transport classification have been changed to reflect the Epoxy results: UN Non-Corrosive and not a GHS Category 1.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/ W	CAS No.	EC No.	EC INDEX No.	Classification
Isophorone diamine	7-13	2855-13-2	220-666-8	612-067-00- 9	Skin Corr. 1B; H314, Acute Tox. 4; H302 (Oral), Acute Tox. 4 (Dermal); H312, Skin Sens. 1; H317, Aquatic Chronic 3; H412
Fatty acids, tall-oil, polymers with bisphenol A, diethylenetriamine, epichlorohydrin and tetraethylenepentamin e	3-7	68951-85- 9	None assigned	None assigned	Skin Irrit. 2; H315, Eye Irrit. 2; H319



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3.3 Additional Information

For full text of H/P statements see section 16.

4. SECTION 4: FIRST AID MEASURES



4.1	Description of first aid measures	
	General information	Do not give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. (show the label if possible).
	Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
	Skin Contact	Remove contaminated clothing. Gently wash with plenty of soap and water. Continue to wash the affected area for at least 15 minutes. Call a POISON CENTER/doctor if you feel unwell. Wash contaminated clothing before reuse.
	Eye Contact	Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
	Ingestion	Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2	Most important symptoms and effects, both acute and delayed	Skin Contact: Causes skin irritation. May produce an allergic reaction. Eye Contact: Causes serious eye damage. Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Ingestion: Likely to be harmful or have adverse effects.
4.3	Indication of any immediate medical attention and special treatment needed	If medical advice is needed, have product container or label at hand.
	attention and special treatment needed	UI IADEI AL HAHU.

5. SECTION 5: FIREFIGHTING MEASURES

5.1	Extinguishing Media	
	Suitable Extinguishing Media	As appropriate for surrounding fire.
	Unsuitable Extinguishing Media	Do not use a heavy water stream. Use of heavy
		stream of water may spread fire.
5.2	Special hazards arising from the substance	Non-flammable. Non-explosive. Reactivity:
	or mixture	Isophorone diamine attacks copper, zinc and tin
		alloys.
5.3	Advice for firefighters	Exercise caution when fighting any chemical fire. Do not allow runoff to enter drains, sewers or



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watercourses. Fire fighters should wear proper protective clothing including respiratory protection.

6. SE	6. SECTION 6: ACCIDENTAL RELEASE MEASURES				
6.1	Personal precautions, protective equipment	Avoid contact with skin, eyes or clothing. Avoid			
	and emergency procedures	breathing vapours. Ensure adequate ventilation.			
		Evacuate if necessary. Stop leak if safe to do so.			
		Ensure suitable personal protection during removal			
		of spillages.			
6.2	Environmental precautions	Avoid run off to waterways and sewers.			
6.3	Methods and material for containment and	Clean up spill immediately. Cover spills with inert			
	cleaning up	absorbent material. Transfer to a container for			
		disposal. Dispose of empty containers and wastes			
		safely.			
6.4	Reference to other sections	See Also Section: 8, 13			
7. SE	CTION 7: HANDLING AND STORAGE				
7.1	Precautions for safe handling	General hygiene measures for the handling of			
		chemicals are applicable. Wash (hands and exposed			
		skin) thoroughly after handling. Contaminated work			
		clothing should not be allowed out of the workplace.			
		Take off contaminated clothing and wash it before			
		reuse. Do not eat, drink or smoke when using this			
		product.			
7.2	Conditions for safe storage, including any	Store in a cool/low-temperature, well-ventilated			
	incompatibilities	(dry) place. Keep container closed when not in use.			
		Store away from incompatible materials.			
	Storage Temperature	Ambient.			
	Storage Life	Stable under normal conditions.			
	Incompatible materials	Acids, Alkalis, Strong oxidising agents.			
7.3	Specific end use(s)	Epoxy.			

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Isophorone diamine	2855-13-2					None
						assigned
Fatty acids, tall-oil,	68951-85-					None
polymers with bisphenol	9					assigned
A, diethylenetriamine,						
epichlorohydrin and						
tetraethylenepentamine						

8.1.2 Biological limit value

Not established.





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8.1.3 PNECs and DNELs

DNEL	Oral	Inhalation	Dermal
Workers- Short term - Local effects	-	20,1 mg/m³	-
Workers- Short term - Systemic effects	-	20,1 mg/m³	-
Consumer - Long Term - Systemic effects	0,526 mg/kg	-	-
	bw/day		

	PNEC
Aquatic Compartment	
Fresh water	0,06 mg/l
Sea water	0,006 mg/l
Intermittent release	0,23 mg/l
Sediment - Fresh water	5,784 mg/kg
Sediment - Sea water	0,578 mg/kg
Soil	1,121 mg/kg
Terrestrial Compartment	-
Sewage Treatment Plant	3,18 mg/l
Oral	-
Atmospheric Compartment	-

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded. Guarantee that the eye flushing systems and safety showers are located close to the working place.

- 8.2.2 Personal protection equipment
 - Eye/face protection



Skin protection (Hand protection/ Other)



Respiratory protection



Thermal hazards

Wear protective eyewear (goggles, face shield, or safety glasses).

Wear protective clothing and gloves: Chemically resistant materials and fabrics.

Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.

Not applicable.

8.2.3 Environmental Exposure Controls

Avoid run off to waterways and sewers.

9. SE	9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
9.1	Information on basic physical and chemical			
	properties			
	Appearance	Liquid.		
	Colour	Amber.		
	Odour	No data.		

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	Odour Threshold	No data.
	pH	Not applicable.
	Melting Point/Freezing Point	No data.
	Initial boiling point and boiling range	No data. No data.
	Flash Point	
		> 93°C (199,4°F) [Closed cup]
	Evaporation rate	No data.
	Flammability (solid, gas)	No data.
	Upper/lower flammability or explosive limits	Not applicable.
	Vapour pressure	No data.
	Vapour density	No data.
	Relative density	No data.
	Solubility(ies)	No data.
	Partition coefficient: n-octanol/water	No data.
	Auto-ignition temperature	No data.
	Decomposition Temperature	No data.
	Viscosity	No data.
	Explosive properties	Not applicable.
	Oxidising properties	No data.
9.2	Other information	None.

10.1	Reactivity	Isophorone diamine attacks copper, zinc and tin
		alloys.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	Hazardous polymerisation will not occur.
	,	No hazardous reactions known if used for its
		intended purpose.
10.4	Conditions to avoid	Keep from direct sunlight. Extremely high or low
		temperatures.
10.5	Incompatible materials	Acids, Alkalis, Strong oxidising agents.
10.6	Hazardous Decomposition Product(s)	Carbon monoxide, Carbon dioxide, Nitrogen oxides.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1	11.1 Information on toxicological effects		
	Acute toxicity	Not classified.	
	Oral	Isophorone diamine:	
		LD50 (rat) = 1030 mg/kg	
		ATE (CLP) = 1030000 mg/kg bw	
	Dermal	Isophorone diamine:	
		ATE (CLP) = 1100000 mg/kg bw	
		Fatty acids, tall-oil, polymers with bisphenol A,	
		diethylenetriamine, epichlorohydrin and	
		tetraethylenepentamine:	
		LD50 (rabbit) = > 2000 mg/kg	
		LD50 (rat) = > 2000 mg/kg	



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Skin corrosion/irritation

Causes skin irritation. Conclusion based on OECD 435 In vitro Membrane Barrier Test method for Skin Corrosion.

Gorilla Epoxy contains isophorondiamine CAS No. 2855-13-2 which, according to Annex 1, Table 3.2.3 of CLP carries the H314: corrosive classification. Product level dermal corrosivity testing for Gorilla Epoxy confirms the product is classified as a skin irritant rather than corrosive. Positive results in a valid and accepted skin corrosion test (Corrositex test) classifies the mixture as Non-corrosive utilizing multiple replicate samples indicating highly reproducible results. As a result, the health hazard and transport classification have been changed to reflect the Epoxy results: UN Non-Corrosive and not a GHS Category 1.

Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard 11.2 Other information Causes serious eye damage. May cause an allergic skin reaction. Not classified. Not classified.

12	SECTION	12. ECO	IOGICAL	INFORMATIC	N

12.1	Toxicity	Low toxicity to aquatic organisms.
		Isophorone diamine:
		EC50(Daphnia magna)(48 hour) = 14,6 – 21,5 mg/l.
12.2	Persistence and degradability	No information available.
12.3	Bioaccumulative potential	Isophorone diamine: 0,79 @ 23°C Log Pow
12.4	Mobility in soil	No information available.
12.5	Results of PBT and vPvB assessment	No information available.
12.6	Other adverse effects	Avoid release to the environment.

13.1	Waste treatment methods	Dispose of wastes in an approved waste disposal
		facility.
13.2	Additional Information	Disposal should be in accordance with local, state or
		national legislation.

14. SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

14.1 U	N number
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- 14.2 UN Proper Shipping Name
- 14.3 Transport hazard class(es)

Not applicable. Not applicable. Not applicable.

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- 14.4 Packing Group
- 14.5 Environmental hazards
- 14.6 Special precautions for user
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable. Not applicable. Not applicable. Not applicable.

In quantities not to exceed 5kg/5L per single or inner packaging, marine pollutants are not subject to regulation by ground, air, or vessel. See 49 CFR 171.4(c)(2), IATA DGR Special Provision A197, and IMDG Code 2.10.2.7.

15. SECTION 15: REGULATORY INFORMATION

	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations	
	Authorisations and/or restrictions on use	
	Candidate List of Substances of Very High Concern for Authorisation	All chemicals are not listed.
	REACH: ANNEX XIV list of substances subject to authorisation	All chemicals are not listed.
	REACH: Annex XVII Restrictions on the	Gorilla Epoxy - Hardener
	manufacture, placing on the market and use	3. Liquid substances or mixtures which are regarded
	of certain dangerous substances, mixtures	as dangerous in accordance with Directive
	and articles	1999/45/EC or are fulfilling the criteria for any of
		the following hazard classes or categories set out in
		Annex I to Regulation (EC) No. 1272/2008.
	, , , ,	
15.2	Chemical Safety Assessment	Not applicable.
15.1.2	Community Rolling Action Plan (CoRAP) National regulations Chemical Safety Assessment	All chemicals are not listed. None known. Not applicable.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 3, 5, 11, 14, 15

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Eye Dam. 1	Serious eye damage/irritation Category 1
Eye Irrit. 2	Serious eye damage/irritation Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2



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Acute Tox. 4Acute toxicity Category 4Skin Sens. 1Respiratory/skin sensitisation Category 1Aquatic ChronicHazardous to the aquatic environment Category 33

Hazard statement(s)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Disclaimers

The information presented in this Safety Data Sheet was prepared by qualified personnel and to the best of our knowledge is true and accurate. The information and recommendations are furnished for this product with the understanding that the purchaser will independently determine the suitability of the product for this purpose. This data does not constitute a warranty, expressed or implied, statutory or otherwise, nor is it representation for which The Gorilla Glue Company assumes legal responsibility. The data is submitted for the user's information and consideration only. Any use of this product must be determined by the user to be in accordance with applicable federal, state, provincial and local laws and regulations.

Annex to the extended Safety Data Sheet (eSDS)

Not applicable.