

Safety Data Sheet
According to Regulation (EC) No 1907/2006



Issue Date : 2015-03-20

Tire Repair glue

EFSH15030426-CG-01

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: Tire repair glue
Additional identification: Not available
Identification of the product: See section 3
Index Number: Not available
REACH registration No.: Not available

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Bicycle tire repair.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): -
Supplier(Manufacturer): Shanghai Shuanghuan Metal Rubber Factory
Address: No.122 Xinyi Wanxiang Pudong New Area Shanghai
Contact person(E-mail): Zhenghai Zhou (58197451@163.com)
Telephone: +86 13311902906
Fax: +86 021-58006086

1.4 Emergency telephone Number:

+86 13311902906 Only available during office hours (8:30a.m.-17:30p.m. Beijing Time Zone)

Available outside office hours? YES NO

Section 2 Hazards Identification

2.1 Classification of the substance/mixture:

2.1.1 Classification:

The mixture is classified as following according to 1999/45/EC and REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
Flam. Liq. 2	H225
Asp. Tox. 1	H304
Skin Irrit. 2	H315
STOT SE 3	H336
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

For full text of H- phrases: see section 2.2.

1999/45/EC	
Hazards characteristics	R-Phrases
F	R11
Xn	R65
Xi	R38
-	R67
N	R50-53

For full text of R- phrases: see section 16.

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2.2 label elements:

Hazard Pictograms:



Signal Word(S):

Danger

Hazard Statement:

H225: Highly flammable liquid and vapour

H304: May be fatal if swallowed and enters airways

H315: Causes skin irritation

H336: May cause drowsiness or dizziness

H410: Very toxic to aquatic life with long lasting effects

Precautionary statement:

P102: Keep out of reach of children

P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hand thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P331: Do NOT induce vomiting.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P370 + P378: In case of fire: Use Water fog, foam, dry chemical or carbon dioxide for extinction.

P391: Collect spillage.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P403 + P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

P501: Dispose of contents/container in according with local regulation.

2.3 Other hazards:

Not available.

Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Heptane	N/A	142-82-5	205-563-8	50-60%
Cyclohexane	N/A	110-82-7	203-806-2	20-30%
Methyl cyclohexane	N/A	108-87-2	203-624-3	10-20%
Natural rubber	N/A	9003-31-0	N/A	10%

Section 4 First aid measures**4.1 Description of first aid measures:**

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Supply fresh air and call for doctor for safety reasons. In case of unconsciousness place in recovery position.

4.1.2 In case of skin contact:

Instantly wash with water and soap and rinse thoroughly.

4.1.3 In case of eyes contact:

Immediately flush eyes with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses.

4.1.4 In case of ingestion:

Do not induce vomiting. Obtain emergency medical attention

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

May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness.

4.3 Indication of any immediate medical attention and special treatment needed:

Symptomatic treatment.

Section 5 Fire-Fighting measures**5.1 Extinguishing media:****Suitable extinguishing media:**

Water fog, foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media:

Do not use solid water stream and water spray jet.

5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. Vapours are heavier than air and can spread along the ground or float on water surfaces to remote ignition sources. Runoff to sewer may create fire or explosion hazard.

5.3 Special fire fighting methods and special protective actions for fire-fighters:

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep away from ignition sources.

6.1.2 For emergency responders: Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.

6.2 Environmental Precautions: Avoid disposing into drainage/sewer system or directly into the aquatic environment.

6.3 Methods for Containment and Cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Observe the instructions for disposal given in Chapter 13 of safety data sheet.

6.4 Reference to other sections: See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

6.5 Additional information: No special treatment.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures: Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling. Wear personal protective equipment. When working in enclosed areas, ensure sufficient ventilation and extraction.

7.1.2 Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities: Store the product in well sealed containers in a cool dry area. Do not store together with strong oxidising agents. Protect from heat and direct sunlight. Keep away from ignition sources.

7.3 Specific end use(s): Not available.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits:

Substance	EINECS No.	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		
			ppm	mg/ m ³	ppm	mg/ m ³	Notes
n-Heptane	205-563-8	142-82-5	400	1600	-	-	IOELV
Cyclohexane	203-806-2	110-82-7	100	340	300	1030	IOELV
Methylcyclohexane	203-624-3	108-87-2	400	1600	500	2000	-

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Use adequate ventilation to keep airborne concentrations low.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Face shield and safety glasses.

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Hand protection:	Wearing protective gloves meet the standards.
Body protection:	Wear suitable protective clothing.
Respiratory protection:	Wear appropriate protective mask.
Thermal hazards:	Wear suitable protective clothing to prevent heat.
8.2.3 Environmental exposure controls:	Avoid discharge into the environment. Dispose of rinse water in accordance with local and national regulations

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	Reuber matrix
Colour:	Milky white
Odour:	Aromatic
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	Not available
Boiling point/range (°C):	90°C
Flash point (°C):	Not available
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower flammability/explosive limits:	Not available
Vapour pressure (25°C):	6.09 kPa(CAS#142-82-5)
Vapour density:	Not available
Relative Density:	Not available
Bulk density (kg/m³):	Not available
Water solubility (g/l):	Slightly soluble
n-Octanol/Water (log Po/w):	log Pow:4.5(CAS#142-82-5)
Auto-ignition temperature:	204 °C(CAS#142-82-5)
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	0.641 mm ² /s (static) (20°C) (CAS#142-82-5)

9.2. Other information:

Fat solubility(solvent– oil to be specified) etc:	Not available
Surface tension:	19.66 mN/m(25°C) (CAS#142-82-5)
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available
Density:	0.69 g/cm ³ (15°C) (CAS#142-82-5)
Specific gravity:	Lighter than water

Section 10 Stability and reactivity

10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Incompatible materials.
10.5 Incompatible materials:	Strong oxidizing agents.
10.6 Hazardous decomposition products:	Carbon oxides.

Section 11 Toxicological information

11.1 Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

11.2 Information on toxicological effects:

Acute toxicity:

Heptane (CAS#142-82-5):

LD50(Oral, Rat): > 5000 mg/kg bw

LD50(Dermal, Rabbit): > 2000 mg/kg bw

LC50(Inhalation, Rat): > 29.29 mg/L air 4h

Cyclohexane(CAS#110-82-7):

LD50(Oral, Rat): > 5000 mg/kg bw

LD50(Dermal, Rabbit): > 2000 mg/kg bw

LC50(Inhalation, Rat): > 5540 ppm 4h

Skin corrosion/Irritation: Causes skin irritation.

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: May cause drowsiness or dizziness

STOT-repeated exposure: Not classified

Aspiration hazard: May be fatal if swallowed and enters airways.

Section 12 Ecological information

Toxicity:

Heptane (CAS#142-82-5):

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	1.5 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

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Cyclohexane(CAS#110-82-7):

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	4.53 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	0.9 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	3.4 mg/L	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Heptane (CAS#142-82-5): It would meet the criteria for ready biodegradation.
Cyclohexane(CAS#110-82-7): readily biodegradable

Bioaccumulative potential: Heptane (CAS#142-82-5): BCF=552
Cyclohexane(CAS#110-82-7): BCF=167

Mobility in soil: Not available.

Results of PBT&vPvB assessment: Not available.

Other adverse effects: Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

13.2 Product / Packaging disposal: If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations. .

Section 14 Transport information

	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	UN1133	UN1133	UN1133
UN Proper shipping name	Adhesives containing flammable liquid	Adhesives containing flammable liquid	Adhesives containing flammable liquid
Transport hazard Class	3	3	3
Packaging group	II	II	II
Environmental hazards	Yes	Yes	Yes
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	IBC02	IBC02	IBC02

Section 15 Regulation information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

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Other EU regulations:

Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations:

Not applicable

Chemical Safety Assessment has been carried out?

YES

NO

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by EU No 453/2010

16.2 Relevant R- phrases (number and full text):

R11: Highly flammable

R65: Harmful: may cause lung damage if swallowed

R38: Irritating to skin

R67: Vapours may cause drowsiness and dizziness

R50-53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

16.3 Training instructions:

Not applicable.

16.4 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.5 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.