

# Material Safety Data Sheet (MSDS)

NO.: A002R131104015-1R02

Date: Nov.08, 2013

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Name: Rubber solution

# Material Safety Data Sheet(MSDS)

Samples Name: Rubber solution

Model: /

**Client Name:** Shanghai Shuanghuan Metal Rubber Factory

**Client Address:** No.122Xinyi Wanxiang Pudong New Area Shanghai

Signed for and on behalf of

Shenzhen AOV Testing Technology Co., Ltd, Kunshan Branch

Project Leader: Maggie

Li Tingting, Maggie  
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## Section 1 - Chemical Product and Company Identification

**Product Name:** Rubber solution

**Supplier:** Shanghai Shuanghuan Metal Rubber Factory

**Address:** No.122Xinyi Wanxiang Pudong New Area Shanghai

**Tel:** 13311902906

**Emergency Telephone:** /

**Fax:** 021-58006086

**Email:** 58197451@163.com

**Use:** Bicycle tire repair

## Section 2 - Hazards Identification

**Fatalness grade:** According to GHS.

Chemical name	CAS No.	EC No.	Classification		Labelling		
			Hazard Class and Category Code(s)	Hazard Statement Code(s)	Pictogram Signal Word Code(s)	Hazard Statement Code(s)	Suppl Hazard statement code(s)
环己烷	110-82-7	203-806-2	Flam. Liq. 2 Asp. Tox. 1 Skin Irrit. 2 STOT SE 3 Aquatic Acute 1 Aquatic Chronic 1	H225 H304 H315 H336 H400 H410	GHS02 GHS08 GHS07 GHS09 Dgr	H225 H304 H315 H336 H410	/
庚烷	142-82-5	205-563-8	Flam. Liq. 2 Asp. Tox. 1 Skin Irrit. 2 STOT SE 3 Aquatic Acute 1 Aquatic Chronic 1	H225 H304 H315 H336 H400 H410	GHS02 GHS08 GHS07 GHS09 Dgr	H225 H304 H315 H336 H410	/
甲基环己烷	108-87-2	203-624-3	Flam. Liq. 2 Asp. Tox. 1 Skin Irrit. 2 STOT SE 3 Aquatic Chronic 2	H225 H304 H315 H336 H411	GHS02 GHS08 GHS07 GHS09 Dgr	H225 H304 H315 H336 H411	/



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## Hazard Symbols:

GHS02



flam

GHS07



exclamatory mark

GHS08



health hazard

GHS09



environment

**Invasion route:** Skin touch, Eyes touch, Inhalation, Ingestion.

**Health hazards:** Irritating to skin, eyes and respiratory system.

**Environment hazards:** May hazard to environment.

**Burn & burst danger:** Combustible

## Section 3 –Composition/Information on Ingredient

 Substance 

 Mixture 

Composition:

Chemical Name	In % By Weight	CAS No.	EC No.	Molecular Formula
Cyclohexane	20-30	110-82-7	203-806-2	C <sub>6</sub> H <sub>12</sub>
Heptane	50-60	142-82-5	205-563-8	C <sub>7</sub> H <sub>16</sub>
Methyl cyclohexane	10-20	108-87-2	203-624-3	C <sub>7</sub> H <sub>14</sub>
Rubber	10	/	/	/

## Section 4 – First-aid Measures

**Skin touch:** Remove contaminated clothes and rinse the skin with plenty of water.

**Eyes touch:** Lifting the upper and lower eyelids, flush the eyes with plenty of water or saline water. Get medical aid.

**Inhalation:** Remove from exposure and move to fresh air immediately. Keep the respiratory tract smooth. Use oxygen if feel hard to breathe. Get medical aid.

**Ingestion:** Drink sufficient hot water and induce vomiting. Get medical aid.

## Section 5 – Fire-fighting Measures

**Danger characteristic:** Combustible

**Harmful combustion products:** CO, CO<sub>2</sub> . smoke

**Fire-Fighting method & media:** The staff must equipped with filter-mask (full mask) or isolated breathing apparatus. The staff must wear the clothes which can defense the fire and the toxic gas. Put out the fire in the upwind direction. Move the container from fire to open air. Spraying water on the containers in the fireplace to keep them cool until finish extinguishment. Media: dry powder, carbon dioxide and sandy clay.

## Section 6 –Accidental Release Measures



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**Emergency treatment:** Rapidly evacuate people from leakage pollution area to safe area. Make Isolation and strictly restricted access. Cut off the fire source. It is suggested that the staff wear self-contained breathing apparatus and dress in usual working clothes. Don't touch the spillage directly. Shut off the divulgence source as soon as possible. Prevented the spillage to flow into restrictive space like the sewer and the drainage channel. Small amount of divulgence: absorb with sandy clay, vermiculite or other inert material. Massive divulgence: Build diking or dig pit to accept. Shift with the pump into the tanker or the special collector, recycle or transport to waste treatment place for handling.

## Section 7 - Handling and Storage

**Handling:** With closed operation. Supply with sufficient partial air exhaust. To prevent the vapor flows into the workplace. The operating staff must have received special training and abide by the operating regulations. It is advised that the staff wear self-contained breathing filter mask, wear work clothes, and wear gloves. Keep away from fire and heating sources. No smoking in the workplace. Equip with relevant types and quantities of the extinguishment instruments and devices for divulgence handling. The emptying container may include harmful residue.

**Storage:** Keep the sample in the cool and well-ventilated place. Storage temperature should not exceed 30°C. Keep away from fire and heating sources. To prevent direct sunlight. Keep container closed. Equip with relevant types and quantities of the extinguishment instruments and devices for divulgence handling.

## Section 8 - Exposure Controls and Personal Protection

**Control parameters :**

Chemical name	OELs	
	PC-TWA (mg/m <sup>3</sup> )	PC-STEL (mg/m <sup>3</sup> )
Cyclohexane	250	-
Heptane	500	1000

**Monitoring Method:** None

**Engineering Control:** Tightly closed. To supply with sufficient partial air exhaust. Storage or use of this material should be equipped with eyewash and safety shower facilities.

**Respiratory Protection:** Wear proper breathing protection device if the concentration exceed in the air. Wear breathing apparatus under the condition of emergency rescue or evacuation

**Eyes Protection:** Wear Goggles

**Body Protection:** Wear protective clothes.

**Hands Protection:** Wear protective gloves

**Other Protections:** No smoking, dining and drinking water in the workplace. Keep good habit of hygiene.

## Section 9 - Physical and Chemical Properties

**Appearance:** Milky colloid

**Odor:** Fragrant

**Flash Point:** NA



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**Boiling Point:** 90°C

**Melting point:** No data

**Upper explosive limit:** NA

**Lower explosive limit:** NA

**Vapour pressure:** NA

**Vapor density:** NA

**Density:** /

**pH Value:** NA

**Solubility:** Slightly soluble in water

**n-xinchun:** NA

**Auto-ignition temperature:** NA

**Decomposition temperature:** No data

## Section 10 - Stability and Reactivity

**Stability:** Stable under normal temperature.

**Incompatible materials:** Strong oxidizer

**Conditions to avoid:** High temperature, fire and moist

**Hazardous Polymerization:** None

**Hazardous Decomposition Products:** Thermal decomposition product: CO, CO<sub>2</sub>, smoke.

## Section 11 - Toxicological Information

Chemical name	RTECS
cyclohexane	GU6300000
heptane	MI7700000
methyl cyclohexane	GV6125000

**Acute Toxicity:** Admixture: No data

cyclohexane	LD50	12705 mg/kg (rat-oral)
heptane	TCLo	1000 ppm/6M (human-inhalation)
methyl cyclohexane	LC50	4 gm/kg (mouse-inhalation)

**Irritation:** No data

**Sensitization:** No data

**Mutagenicity:** No data

**Carcinogenicity:** No data

**Reproductive toxicity:** No data



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**Specific target organ toxicity-single exposure:** No data

**Specific target organ toxicity-repeated exposure:** No data

**Aspiration hazard:** No data

**Others:** None

## Section 12 - Ecological Information

**Eco-toxicity:** No data

**Persistence and degradability:** No data

**Bioaccumulative potential:** No data

**Mobility in soil:** No data

**Other harmful effects:** This material is harmful to the environment, should pay special attention to water pollution.

## Section 13 - Disposal Considerations

**Nature of waste:** Organic waste

**Waste disposal methods:** Refer to National or Local regulations before handling.

**Attention abandoned:** None

## Section 14 - Transport Information

**UN Number:** 1133

**Shipping name:** None

**Classification:** 3

**Packaging Group (if applicable):** III

**Marine pollutant (Y/N):** /

**Transport Attentions:** Examine whether the package of containers are integrate and tight-closed or not before transport. No divulgence, no collapse, no precipitation or no damage during the course of transportation. Don't put goods together with oxidizers and chief food chemicals.

## Section 15 - Regulatory Information

**Regulatory Information:** GB/T 16483-2008 Safety data sheet for chemical products—Content and order of sections

GB 13690-2009 General rule for classification and hazard communication of chemicals

GBZ 2.1-2007 Occupational exposure limits for hazardous agents in the workplace part 1: Chemical hazardous agents

National Hazardous Waste List

GHS - Globally harmonized system of classification and labelling of chemicals, third revised edition.

Transport of dangerous goods, sixteenth revised edition.

## Section 16 - Additional Information

**References:** None

**Guidance departments:** None



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**Data audit unit:** None

**Laws Help:** None

**Other Information:** The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

**Term:** H225:Highly flammable liquid and vapour; H304: May be fatal if swallowed and enters airways.

H411: Toxic to aquatic life with long lasting effects. H336: May cause drowsiness or dizziness.

H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

**Abbreviation:** EC: European Inventory of Existing Commercial chemical Substances

RTECS: Registry of Toxic Effects of Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LD50: Lethal dose, 50 percent kill

TCLo: Lowest published toxic concentration

LC50 : Lethal concentration, 50 percent kill

OELs : Occupational exposure limits

PC-TWA : Permissible concentration-Time Weighted Average

PC-STEL: Permissible concentration-Short Term Exposure Limit

NA: Not applicable

MSDS Creation Date: Nov.08, 2013

\*\*\*End of Report\*\*\*