

# MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION 1

<b>MANUFACTURE'S NAME</b> MARUNI INDUSTRY CO., LTD.			<b>EMERGENCY TELEPHONE NO.</b> 81-6-6716-4171		
<b>ADDRESS(Number, Street, City, State and ZIP code)</b> 11-1 Shariji 3-chome, Ikuno-ku, Osaka , Japan 544					
<b>CHEMICAL NAME AND SYNONYMS</b> Mixture				<b>TRADE NAME AND SYNONYMS</b> Rubber Cement (Non-Toluene)	
<b>CHEMICAL FAMILY</b>			<b>FORMULA</b>		
<b>UN No.</b>	1133	<b>UN Class No.</b>	3	<b>CAS No.</b>	68513-03-1, 68425-13-8,107-83-5,110-82-7

## SECTION 2 - HAZARDOUS INGREDIENTS




PAINTS, PRESERVATIVES, & SOLVENT		%	TLV (Units)	ALLOYS AND METALLIC COATINGS		%	TLV (Units)
<b>PIGMENTS</b>				<b>BASE METAL</b>			
<b>CATALYST</b>				<b>ALLOYS</b>			
<b>VEHICLE</b>	Natural Rubber	5-9	approx	<b>METALLIC COATINGS</b>			
<b>SOLVENTS</b>	Petroleum Naphtha	50-55	approx	<b>FILLER METAL</b>			
	Isohexane	37-42	approx	<b>PLUS COATING OR CORE FLUX</b>			
	Cyclohexane	1-3	approx				
<b>ADDITIVES</b>				<b>OTHERS</b>			
<b>OTHERS</b>	Resin/Chemicals		approx				
<b>HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES</b>						%	TLV (Units)

## SECTION 3 - PHYSICAL DATA

<b>BOILING POINT</b>	62-125°C	<b>SPECIFIC GRAVITY(H<sub>2</sub>O=1)</b>	0.71
<b>VAPOR PRESSURE (kPa, 20°C)</b>	7.0	<b>PERCENT, VOLATILE BY VOLUME (%)</b>	N/A
		<b>EVAPORATION RATE</b>	
<b>SOLUBILITY IN WATER (Solvent/water)</b>	0.1(20°C)		
<b>APPEARANCE AND ODOR</b>	Petroleum oder and light brown color viscosity of liquid		

## SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

<b>FLASH POINT (Method used)</b>	<b>FLAMMABLE LIMITS</b>	<b>LeI</b>	<b>UeI</b>
Below -20°C		1.0 vol %	7.7 vol%
<b>EXTINGUISHING MEDIA</b> Carbon dioxide, fire foam against alcohol, sprinke water			
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>			
Use scheduled extinguishing agent. Do not use straight stream of water to extinguish. Use self-contained breathing apparatus and protective clothing. Remove immediately combustible material if it is not danger.			
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b>			
Avoid straight stream of water			

SECTION 5 - HEALTH HAZARD DATA	
<b>SYMBOL</b>	  
<b>SIGNAL WORD : DANGER</b>	
<b>THRESHOLD LIMIT VALUE</b>	
ACGIH-TWA: Petroleum naphtha:400ppm, Isohexane : 500ppm, Cyclohexane: 100ppm	
<b>EFFECTS OF OVEREXPOSURE</b>	
<b>EMERGENCY AND FIRST AID PROCEDURES</b>	
<b>Skin Contact</b> : Remove extraneous matter and wash with soap and water. Consult a doctor if skin irritation persists. <b>Eye- Contact</b> : Wash immediately with plenty of water for 15 minutes and consult an ophthalmologist. <b>Inhalation</b> : Provide immediately fresh air and rest, and see a doctor <b>Ingestion</b> : Rinse mouth carefully and call a physician immediately.	

SECTION 6 - REACTIVITY DATA			
<b>STABILITY</b>	<b>UNSTABLE</b>		<b>CONDITIONS TO AVOID</b>
			Heat source, rubber/cloth/plastic without oil resistance
	<b>STABLE</b>	X	
<b>INCOMPATIBILITY (Materials to avoid)</b>			
strong oxidant			
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>			
<b>HAZARDOUS</b>	<b>MAY OCCUR</b>		<b>CONDITIONS TO AVOID</b>
<b>POLYMERIZATION</b>	<b>WILL NOT OCCUR</b>	X	

SECTION 7 - SPILL OR LEAK PROCEDURES		
<b>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED</b>		
Eliminate all sources of ignition if possible.		
Wear adequate respiratory protection. Absorb with absorbent material. Keep material away from sewers and waterway.		
<b>WASTE DISPOSAL METHOD</b>		
Follow Recycle or dispose of observing local, state & Federal health, safety & pollution laws at local government		
SECTION 8 - SPECIAL PROTECTION INFORMATION		
<b>RESPIRATORY PROTECTION (Specify type)</b>		
Approved organic canister mask or air-supplied respirator.		
<b>VENTILATION</b>	<b>LOCAL EXHAUST</b>	<b>SPECIAL</b>
	Recommended	
	<b>MECHANICAL (General)</b>	<b>OTHER</b>
Recommended		
<b>PROTECTIVE GLOVES</b>		<b>EYE PROTECTION</b>
Impervious protection rubber gloves		Chemical safety goggles to guard against splashing.
<b>Overalls, Apron.</b>		

SECTION 9 - SPECIAL PRECAUTIONS	
<b>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING</b>	
Store in cool, well-ventilated area. Avoid all sources of ignition. Avoid excessive heat, direct sunlight and strong oxidant. Avoid prolonged or repeated contact with skin. Avoid breathing vapours.	
<b>OTHER PRECAUTIONS</b>	
Keep container closed.	

**SECTION 10 - Transport - Information**

Truck :	XXXXX	See/Sea :	XXXXX
also	XXXXX	air shipment :	XXXXX
Train	XXXXX		

post shipment not allowed XXXXX

**NOTICE:** MARUNI INDUSTRY CO., LTD. believes that information contained on this material safety data sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all-inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements.

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MARUNI INDUSTRY CO., LTD.

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Technical Division