



## SAFETY DATA SHEET

### 1. PRODUCT IDENTIFICATION

**Name of product:** **SEALINER**

**Manufacture Information:** MARUNI INDUSTRY CO., LTD.  
11-1 Shariji 3-chome, Ikuno-ku, Osaka Japan 544-0022  
Phone +81-6-6716-4171

**Emergency advice:** Phone +81-6-6716-4171

**Recommended use(s):** Coating

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### 2. Hazards Identification

#### GHS Classification

Skin corrosion/irritation	Category 2
Eye corrosion/irritation	Category 2A
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1B
Reproductive toxicity	Category 1A
Specific target organ toxicity	Category 1(central nervous system)
- Single exposure	Category 3(respiratory track irritation, anesthesia)
Specific target organ toxicity	Category 1(central nervous system, kidney, liver, lungs)
- Repeated exposure	
Acute toxicity to the aquatic environment	Category 2
Chronic toxicity to the aquatic environment	Category 2

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#### Label Elements

**Pictogram and Symbol :**



**Signal word :** **Danger**



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### Hazard statement :

H315	Causes skin irritation
H319	Causes serious eye irritation
H341	Suspected of causing genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child
H370	Causes damage to central nervous system
H336	May cause drowsiness or dizziness
	May cause respiratory irritation
H372	Causes damage to organs through prolonged or repeated exposure : Central nervous system, Liver, Kidney, Lungs
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

### Precautionary statements :

#### Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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.
P281	Use ventilation system or personal protective equipment as required.

#### Response

P301+P312	IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P332+P313	IF skin irritation occurs: Get medical advice/attention.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

#### Storage

P403+P233+P235	Store in a well-ventilated place. Keep container tightly closed.
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P405 Store locked up.

### **Disposal**

P501 Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

### **3. Composition/ information on ingredients**

**Chemical Identity** Solution of butyl rubber in trichloroethylene and toluene

**Synonyms** - - -

**Chemical Formula** Mixture

CAS No.	Component Name	Percent
79-01-6	Trichloroethylene	62 - 68
108-88-3	Toluene	10 - 15
Mixture	Butyl rubber	15 - 20
1333-86-4	Carbon black	2 - 8

### **4. First aid and Measures**

#### **4.1 Description of first aid measures**

##### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

##### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### **In case of skin contact**

Wash off with soap and plenty of water, Consult a physician.

##### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### **If swallowed**

Never make him/her vomit by force. Rinse mouth with water. Consult a physician.

#### **4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.



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### **4.3 Indication of any immediate medical attention and special treatment needed**

No data available

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## **5. Fire-fighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **5.2 Special hazards arising from the substance or mixture**

Carbon oxides, Hydrogen chloride gas

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### **5.4 Further information**

No data available

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## **6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

For personal protection see section 8.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### **6.3 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### **6.4 Reference to other sections**

For disposal see section 13.



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### 7. Handling and storage

#### 7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

For precautions see section 2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Light sensitive. Handle and store under inert gas.

Storage class(TRGS 510): Non-combustible, acute toxic Cat.3/ toxic hazardous materials or hazardous materials causing chronic effects.

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### 8. Exposure controls/ Personal protection

#### 8.1 Engineering measures

Use exhaust ventilation to keep airborne concentrations below exposure limits.  
Use adequate ventilation.

#### 8.2 Ventilation

Local exhaust; recommended, mechanical(General) ; recommended

#### 8.3 Control parameters

Component Name	ACGIH TLV-TWA	OSHA PEL-TWA
Trichloroethylene	10 ppm	100 ppm
Toluene	20 ppm	200 ppm
Butyl rubber	-	-
Carbon black	10 ppm	100 ppm

#### 8.4 Personal protection

Respiratory protection	Safety masks
Hand protection	Chemical resistance gloves
Eye protection	Safety glasses(goggles)
Skin protection	Protective clothing

### 9. Physical and Chemical properties

#### 9.1 Information on basic physical and chemical properties



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a) Appearance	Black, liquid	
b) Odour	Chloroform-like	
c) Odour Threshold	No data available	
d) pH	No data available	
e) Melting point/freezing point	-85°C(trichloroethylene)	-95°C(toluene)
f) Initial boiling point and boiling range	87°C(trichloroethylene)	111°C(toluene)
g) Flash point	No data available(trichloroethylene)	4°C(toluene)
h) Evaporation rate	No data available	
i) Flammability (solid, gas)	No data available	
j) Upper explosive limits	10.5vol%(trichloroethylene)	7.1vol%(toluene)
Lower explosive limits	8.0vol%(trichloroethylene)	1.1vol%(toluene)
k) Vapour pressure	7.8 kPa at 20°C(trichloroethylene)	3.8 kPa at 25°C(toluene)
l) Vapour density	4.53(trichloroethylene)	3.18(toluene)
m) Relative density	1.25 g/ml	
n) Water solubility	0.1g/100ml(20°C) (trichloroethylene)	0.067%(w/w)(23.5°C) (toluene)
o) Partition coefficient : n-octanol/water	log Pow = 2.42(trichloroethylene)	2.73(toluene)
p) Auto-ignition temperature	410°C(trichloroethylene)	480°C(toluene)
q) Decomposition temperature	No data available	
r) Viscosity	16,000 - 19,000 mPa·s	
s) Explosive properties	No data available	
t) Oxidizing properties	No data available	
u) Solvent concentration	75–80wt. %	

### 10. Stability and reactivity

#### 10.1 Reactivity

No data available

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

No data available

#### 10.5 Incompatible materials

Oxidizing agents, Strong bases, Magnesium



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### 10.6 Hazardous decomposition products

Other decomposition products - No data available

In the event of fire ; see section 5

## 11. Toxicological information

### 11.1 Information on toxicological effects

	(trichloroethylene)	(toluene)
<b>Acute toxicity</b>		
LD50 Oral - Rat -	4,920mg/kg	636mg/kg
LC50 Inhalation - Mouse - 4h -	8,450ppm	49g/m3
LD50 Dermal - Rabbit -	>20,000mg/kg	-
<b>Skin corrosion/irritation</b>		
Skin - Rabbit		
Result :	Severe skin irritation	Moderate
<b>Serious eye damage/eye irritation</b>		
Eyes - Rabbit		
Result :	Eye irritation - 24h	Moderate
<b>Respiratory or skin sensitization</b>		
	No data available	No data available
<b>Germ cell mutagenicity</b>		
	Laboratory experiments have shown mutagenic effects.	Micronucleus test; mouse; ipr;
	In vitro tests showed mutagenic effects	433 $\mu$ g/kg/24H
<b>Carcinogenicity</b>		
	IARC : 1 - Group 1 : Carcinogenic to humans	IARC : Group 3 Not classifiable as Carcinogenic to humans
<b>Reproductive toxicity</b>		
	No data available	TDLo(ori,rat): 16mL/kg(6-21D preg); Effects on Newborn -physical TCLo(ihl,rat): 1800ppm(7-20D preg);



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Specific Developmental  
Abnormalities - Central Nervous System

### Specific target organ toxicity - single exposure

No data available

Human; ihl, 50-100ppm, feebleness,  
sleepiness, dizziness  
Human; ihl, 200-400ppm, paresthesia,  
vomiturition  
Human; ihl, 500-800ppm, drunkenness,  
derangement, giant abnormality  
Human; irritation for eye, nose and throat

### Specific target organ toxicity - repeated exposure

No data available

Human; ihl, stenosis for range of vision,  
headache with deafness and eye  
nystagmus, trembling, dynamic ataxia  
amnesia, cerebral atrophy, renal  
dysfunction

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## 12. Ecological information

	(trichloroethylene)	(toluene)
<b>12.1 Toxicity ; trichloroethylene</b>		
EC50	7.40 mg/ L/ 48h(daphnia magna)	4.1 mg/ L/ 48hr(daphnids)
BOD	2.40%	123%
<b>12.2 Persistence and degradability</b>		
	No data available	Biodegradable
<b>12.3 Bioaccumulative potential</b>		
	Does not bioaccumulate.	Not available
<b>12.4 Mobility in soil</b>		
	No data available	Not available

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## 13. Disposal considerations

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.


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### **Contaminated packaging**

Dispose of as unused product.

## **14. Transport information**

### **14.1 UN number**

ADR/RID : 2810

IMDG : 2810

IATA : 2810

### **14.2 UN proper shipping name**

ADR/RID : TOXIC LIQUID, ORGANIC, N.O.S.

IMDG : TOXIC LIQUID, ORGANIC, N.O.S.

IATA : TOXIC LIQUID, ORGANIC, N.O.S.

### **14.3 Transport hazard class(es)**

ADR/RID : 6.1

IMDG : 6.1

IATA : 6.1

### **14.4 Packaging group**

ADR/RID : III

IMDG : III

IATA : III

### **14.5 Environmental hazards**

ADR/RID : no

IMDG Marine pollutant: no

IATA : no

### **14.6 Special precautions for user**

No data available

## **15. Regulatory information**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Authorisations and/or restrictions on use**

Trichloroethylene CAS No. 79-01-6

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59)

Carcinogenic (Article 57a)

ED/30/2010

Toluene CAS No. 108-88-3

REACH - With the exception of those listed below;

Annex XVII

### **15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out



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### 16. Other information

**NOTICE:** MARUNI INDUSTRY CO., LTD. believes that information contained on this 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