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

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

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.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe mist/vapours/spray.
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.

Response

P302+P352	IF ON SKIN: Wash with plenty of water.
P332+P313	IF skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
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.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P308+P313	IF EXPOSED: Call a POISON CENTER or doctor/physician.
P308+P311	IF exposed or concerned: Call a doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.

Storage

P405	Store locked up.

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

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.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

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

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Endure 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 precautious 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.

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	10 ppm
Toluene	20 ppm	20 ppm
Butyl rubber	-	-
Carbon black in liquid	-	-

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

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℃(trichloroethylene)	-95℃(toluene)
f) Initial boiling point and boiling range	87℃(trichloroethylene)	111℃(toluene)
g) Flash point	No data available(trichloroethylene)	4℃(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℃(trichloroethylene)	3.8 kPa at 25℃(toluene)
l) Vapour density	4.53(trichloroethylene)	3.18(toluene)
m) Relative density	1.25 g/ml	
n) Water solubility	0.1g/100ml(20℃) (trichloroethylene)	0.067%(w/w)(23.5℃) (toluene)
o) Partition coefficient : n-octanol/water	log Pow = 2.42(trichloroethylene)	2.73(toluene)
p) Auto-ignition temperature	410℃(trichloroethylene)	480℃(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

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

		TCLo(ihl,rat): 1800ppm(7-20D preg); Specific Developmental
	920	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

12. Ecological information

		(trichloroethylene)	(toluene)
12.1	**Toxicity ; trichloroethylene**		
	EC50	7.40 mg/ L/ 48h(daphnia magna)	4.1 mg/ L/ 48hr(daphnids)
	BOD	2.40%	123%

12.2 Persistence and degradability

No data available	Biodegradable

12.3 Bioaccumulative potential

Does not bioaccumulate.	Not available

12.4 Mobility in soil

No data available	Not available

13. Disposal considerations

13.1 Waste treatment methods

Product

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

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 : yes IMDG Marine pollutant: yes IATA : yes

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

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For this product a chemical safety assessment was not carried out

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