

# MATERIAL SAFETY DATA SHEET

Effective Date : 13 November 2009

Rev. No. : 00

## SECTION 1 - PRODUCT NAME AND COMPANY IDENTIFICATION

Product : 1-MS Sealant  
Manufacturer : ROVSKI Industries Sdn. Bhd.  
Address : Lot 561, Jalan Persiaran Subang 3, Subang Jaya Industrial Park,  
Subang Jaya Industrial Park,  
47610 Subang Jaya,  
Selangor Darul Ehsan,  
Malaysia.  
Telephone No. / Fax No. : 603-56332908 / 603-56341186  
Chemical family : Modified Silicon

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENT

<u>Chemical name(s)</u>	<u>Proportion (%)</u>
Polymer	30-50
Plasticizer	10-20
Filler	20-40
Adhesion Promoter	1-2
Pigment	5-15
Additives	1-5

## SECTION 3 - PHYSICAL AND CHEMICAL PROPERTIES

Boling point : NA  
Specific Gravity (H<sub>2</sub>O = 1) : 1.42-1.52  
Vapour density (air=1) : NA  
Percent solid by weight (%) : ≥95  
Evaporation rate (butyl acetate=1) : NA  
pH : Neutral  
Appearance and odour : Thick paste, odorless

## SECTION 4 - HAZARD IDENTIFICATION

Flash point : NA  
Flammable limit (LEL & UEL) : Unknown  
Extinguishing Media : Water, carbon dioxide or chemical foam.  
Unusual fire and explosion hazards : NA

## SECTION 5 - FIRST AID MEASURES

Eye contact : Flush eyes gently with clean water for 15 minutes. Seek medical attention.  
Skin contact : Remove contaminated clothing. Wash exposed areas with soap and water. Wash clothing before reuse. Seek medical attention if irritation develops.  
Ingestion : Rinse mouth with water until it is free from ingested material. Then, drink a lot of water. Seek immediate medical attention.  
Inhalation : Immediately move individual away from exposure into fresh air. If person is not breathing, begin artificial respiration. Keep person warm and quiet. Seek immediate medical attention.

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## SECTION 6 - FIRE FIGHTING MEASURES

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- Fire fighting media : Small fire : Use dry chemical or foam.  
large fire : Use water spray, fog or foam. Water or foam may cause frothing
- Fire fighting instruction : Use water spray in order to cool down the surface that exposed to the fire, and to protect the workers. Shut off source or fuel to fire if it is possible to do so without hazard.

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## SECTION 7 - ACCIDENTAL RELEASE MEASURES

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### Soil spill

- Eliminate all sources of ignition. Dike and contain spill with inert material such as sand and earth. Use suitable equipment like pail to scrape the spillage and transfer liquid and solid separately to containers for recovery or disposal. Seek the experts advice regarding the disposal of recovery materials and make sure that it is equivalent to local disposal regulations.

### Water spill

- Warn the other sewers. Inform the respective person incharge at the nearby port and keep people away from the area. Eliminate all sources if possible to do so without hazard. Dike and contain spill from the surface by using suitable absorbent. Suitable dewatering and/or separation can be used at the untrapped marine area, if allowed by the respective local regulatory. Seek the experts advice regarding the disposal of recovery materials and make sure that it is equivalent to local disposal regulations.

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## SECTION 8 - HANDLING AND STORAGE

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- Precautions to be taken in handling and storing : Store in cool dry area.  
Other precautions : For industrial use only by trained personnel

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## SECTION 9 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

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- Engineering measures / ventilation : The usage of local exzox ventilation is recommended to control the emission process near to the sources. Provide a mechanical ventilation for the enclosed area.
- Personal protection  
General guides : The usage and selection of personal protective equipment is related to the dangerousness of the product, working place and the product handling. Generally, as a minimum safety procedures we recommend users to wear safety goggles which is equipped with the side protection, and wear working cloth or uniform which protect their hands, feet, and body. Besides, persons who visit the place at which the product is being handled or processed, must be at least wear safety goggles.
- Respiratory protection : Users are advised to wear a half face filter mask to protect themselves from over exposure through inhalation. Filter materials is depends on the total and types of chemical being handled at the working place. However, 'P' type filter material or the one which is equivalent can be considered to be used.
- Hand protection : When handling this product, users are advised to wear protective gloves made from cotton or latex. The chosen of suitable protective gloves is depends on the working condition and types of chemical used. However, we have positive experience with the gloves made from nitrile. Gloves should be replaced immediately when the degradation effect appears.
- Eye protection : Please refer to the general guides  
Skin / body protection : Please refer to the general guides

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## SECTION 10 - STABILITY AND REACTIVITY

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Stability	: Stable (avoid over exposure to high heat during storage).
Conditions to avoid	: Avoid high heat except in used (strong oxidizing agents)
Hazardous decomposition products	: Oxides of carbon and nitrogen formed upon heating at high temperature
Hazardous polymerization	: Will not occur

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## SECTION 11 - TOXICOLOGICAL INFORMATION

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### Toxicity Data

LD-50 absorbed orally in rat	200 - 300 mg/kg
LD-50 percutaneous absorption in rat or rabbit	400 - 2000 mg/kg
LC-50 absorbed by inhalation in rat	2 - 20 mg/litre

### Carcinogenicity

This substance is not listed as a probable human carcinogen.

### Effects of over exposure

Substance and preparations which if inhaled, ingested or penetrated into the skin may involve limited health risks like irritation, headache, nausea, dizziness and fatigue.

### Further information

Subacute-chronic toxicity	: Rat: liver damage, kidney damage, (only after administration of very high doses of substance, after oral administration). According to present knowledge, the liver-toxic effects are specific to rodents, the effects cannot be transferred to humans.
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## SECTION 12 - ECOLOGICAL INFORMATION

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Bioaccumulation	: Low bioconcentration factor (BCF)
Biodegradability	: Not biodegradable. Long term adverse effects in the aquatic environment is expected.
Aquatic Toxicity	: Harmful to aquatic organism

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## SECTION 13 - DISPOSAL INFORMATION

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Precautions for disposal considerations	: Do not discharge into drains or the environment, dispose of to an authorised waste collection point. : Use appropriate containment to avoid environment contamination. : Refer to manufacturer/supplier for information on recovery/recycling.
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## SECTION 14 - TRANSPORT INFORMATION

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This product is not classified as hazardous goods according to the respective transportation regulations.

Precautions	: Packaging (drum/steel pail) must be tightly closed and avoid vigorous shaking.
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## SECTION 15 - REGULATORY INFORMATION

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<b>a. Proposed classification</b>	: Harmful
<b>b. R Phrase</b>	
R20/21/22	: Harmful by inhalation, in contact with skin and if swallowed
R52/53	: Harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment
R58	: May cause long term adverse effects in the environment.
<b>c. S Phrase</b>	
S3/7/9	: Keep container tightly closed, in a cool well ventilated place.
S36 / 37	: Wear suitable protective clothing and gloves.

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## SECTION 16 - OTHER INFORMATION

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Product use	: Sealant
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