



MSDS NO: EU-06-05301832

1/8

PRODUCT NAME: KE-40RTV-W

MATERIAL SAFETY DATA SHEET

SECTION 1. COMPANY IDENTIFICATION

COMPANY IDENTIFICATION

MANUFACTURER'S NAME: Shin-Etsu Chemical Co., Ltd.

ADDRESS: 6-1, 2-Chome, Ohtemachi, Chiyodaku, Tokyo, JAPAN

EMERGENCY TELEPHONE NUMBER:

330-630-9860(Shin-Etsu Silicones of America, Inc.)

800-424-9300(CHEMTREC)(24hrs)(Washington, D.C. USA)

TELEPHONE NUMBER FOR INFORMATION:

03-3246-5121(Tokyo, JAPAN)

330-630-9860(Shin-Etsu Silicones of America, Inc.)

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PRODUCT NAME :

KE-40RTV-W

PRODUCT CLASSIFICATION:

One Component Silicone Rubber Compound

SECTION 2. COMPOSITION

SINGLE OR MIXTURE:

Mixture

CHEMICAL IDENTIFICATION:

Organopolysiloxane mixture

HAZARDOUS COMPONENT(S)/(CAS No.):

Crystalline silica/(Confidential) : ca.25 %

(See Section 8 of this MSDS for Exposure Guideline)

(See Section 11 of this MSDS for Carcinogenicity)

SECTION 3. HAZARDS IDENTIFICATION

HAZARDS CLASSIFICATION:

None (based on IMO)

Combustible Liquids (based on DOT)

FIRE AND EXPLOSION:

Combustible

POTENTIAL HEALTH EFFECT:

INHALATION ; Vapor overexposure may cause drowsiness, injure blood and liver, and may irritate eyes, nose and throat.

SKIN contact ; On direct contact uncured product or its vapor may cause slight irritation to skin.  
EYES contact ; On direct contact uncured product or its vapor may cause slight irritation to eyes.  
INGESTION ; No information is available.

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**SECTION 4. FIRST AID MEASURES**

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INHALATION ; Remove to fresh air.  
SKIN contact ; Immediately remove product from skin with dry cloth or towel, and wash exposed area with detergent.  
EYES contact ; Immediately flush with plenty of water for at least 15 minutes and promptly call a physician.  
INGESTION ; Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Call a physician immediately.

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**SECTION 5. FIRE FIGHTING MEASURES**

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FLASH POINT(method used):  
75 degrees C (Closed cup)  
FLAMMABLE LIMITS:  
LOWER: Not measured UPPER: Not measured  
EXTINGUISHING MEDIA:  
Foam, dry chemical, carbon dioxide or fine water spray  
SPECIAL FIRE FIGHTING PROCEDURE:  
None  
UNUSUAL FIRE AND EXPLOSION HAZARD:  
None

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

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STEP TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
Shut off all ignition sources.  
Contain the spill or leak.  
Scrape up with rag or other material and place in container.

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**SECTION 7. HANDLING AND STORAGE**

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PRECAUTION TO BE TAKEN IN HANDLING AND STORING:  
Keep container closed when not in use.  
Store in a cool place.  
Keep away from heat, sparks and flame.  
Do not lay the container on its side.

Use only with adequate ventilation.  
Avoid prolonged breathing vapor.  
Avoid contact with eyes and skin.  
Contact lens wearers take appropriate precaution.  
Keep out of reach of children.  
\* \* \* \* \* Information about the emptied container \* \* \* \* \*  
Do not re-use this container.  
Keep away from heat, sparks and flame.  
Do not puncture or cut this container, and do not weld on or  
near this container.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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## EXPOSURE GUIDELINES:

ACGIH TLV-TWA : 0.05mg/m<sup>3</sup>, (RESPIRABLE DUST),  
OSHA PEL : 8H TWA 10mg/m<sup>3</sup>/%SiO<sub>2</sub>,  
(RESPIRABLE DUST) [Crystalline silica]  
Vendor guide ; 3ppm(TWA), 10ppm(STEL),  
AIHA WEEL\* ; 10ppm(TWA)  
[Methylethylketoxime ; decomposed product]  
(\*AIHA WEEL = American Industrial Hygiene Association  
Workplace Environmental Exposure Level)

## RESPIRATORY PROTECTION(specify type):

Use air-supplied breathing apparatus unless local exhaust  
ventilation is adequate or decomposed product is within  
AIHA guideline.

## VENTILATION:

LOCAL EXHAUST: Required  
MECHANICAL(general): Adequate ventilation system  
SPECIAL: Unknown  
OTHER: Pay attention to ventilation such as local exhaust,  
mechanical and/or door open for at least 24 hours  
after application.

## PROTECTIVE GLOVES:

Plastic film or rubber gloves

## OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Eyewash equipment

## WORK/HYGIENIC PRACTICES:

Keep away from heat, sparks and flame.  
Avoid prolonged breathing vapor.  
Avoid contact with eyes and skin.  
Wash hands after handling.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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## BOILING POINT:

Not applicable

## VAPOR PRESSURE:

Negligible (25 degrees C)

## VAPOR DENSITY(air=1):

&gt;1

## SPECIFIC GRAVITY:

1.59 (25 degrees C)

## MELTING POINT:

Not applicable

## EVAPORATION RATE:

&lt;1 (Butyl Acetate=1)

## SOLUBILITY IN WATER:

Not soluble

## APPEARANCE(color):

White

## APPEARANCE(form):

Paste

## ODOR:

Oxime odor

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**SECTION 10. STABILITY AND REACTIVITY**

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## STABILITY:

Stable

## CONDITION TO AVOID:

Exposure to air or moisture until ready to use - Causes curing and methylethylketoxime vapors form gradually.

## INCOMPATIBILITY(material to avoid):

Water or moisture

## HAZARDOUS DECOMPOSITION OR BY-PRODUCT:

Water, moisture, or humid air can cause methylethylketoxime

Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Nitrogen oxides. Formaldehyde.

## HAZARDOUS POLYMERIZATION:

Will not occur

## CONDITION TO AVOID:

None

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**SECTION 11. TOXICOLOGICAL INFORMATION**

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## SKIN IRRITATION:

No information is available.  
See OTHER INFORMATION.

## EYE IRRITATION:

No information is available.

See OTHER INFORMATION.

SENSITIZATION:

No information is available.

See OTHER INFORMATION.

ACUTE TOXICITY(LD50):

No information is available.

See OTHER INFORMATION.

ACUTE TOXICITY(LC50):

No information is available.

See OTHER INFORMATION.

SUBACUTE TOXICITY:

No information is available.

See OTHER INFORMATION.

CHRONIC TOXICITY:

No information is available.

See OTHER INFORMATION.

CARCINOGENICITY:

NTP:Not listed, IARC:Not listed, OSHA REGULATED:Not listed

This product contains crystalline silica which is considered a hazard by inhalation with dust and classified as an agent which is carcinogenic to humans by IARC and may reasonably be anticipated to be carcinogen by NTP. But we consider that this product does not fall under Group 1 in IARC and carcinogen in NTP because it does not generate the dust under normal handling condition.

See OTHER INFORMATION.

MUTAGENICITY:

No information is available.

See OTHER INFORMATION.

OTHER INFORMATION:

Additional Information

Methyl Ethyl Ketoxime (MEKO)---Decomposition product  
Material will generate MEKO on exposure to humid air gradually. Male rodents exposed to MEKO vapor at high concentration throughout their lifetime developed liver cancer. But relevance to humans is uncertain now.  
Please read the detail information to MEKO below.

Skin Irritation	;Causes mild irritation. Can be absorbed through the skin.
Eyes Irritation	;Causes severe irritation.
Acute Oral Tox.	;LD50(rat)= 4ml/kg.
Acute Inhalation Tox.	;LC50(rat)= >4.8mg/l/4Hr
Inhalation Tox.	;Shows narcotic action at high concentration. May produce blood effects.
Skin Sensitization	;Positive(guinea pig)

Neurotoxicity	;High dose can produce transient and reversible change in neurobehavioral function. No evidence of cumulative neurotoxicity was detected.
Carcinogenicity	;Liver carcinomas were observed in a lifetime inhalation study (ca.2 years) in which mice and rats were exposed. These carcinomas were statistically increased in males at MEKO concentration of 375ppm. Relevance to humans is uncertain now.
Mutagenicity	;Not considered mutagenic based on several in vitro and vivo studies.
Other Chronic Study	;Degenerative effects on the olfactory epithelium of nasal passages occurred in a concentration related manner in males and females of mice and rats at MEKO concentration of 15, 75 and 375ppm.
Workplace Environmental Exposure Level	;Vendor guide ; 3ppm(TWA), 10ppm(STEL), AIHA WEEL ; 10ppm(TWA)

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**SECTION 12. ECOLOGICAL INFORMATION**

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## BIODEGRADATION:

Not applicable

## BIOACCUMULATION:

No information is available.

## AQUATIC TOXICITY:

No information is available.

## OTHER INFORMATION:

None

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**SECTION 13. DISPOSAL CONSIDERATIONS**

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Can be land-filled for cured product or burned in a chemical incinerator equipped with an afterburner and scrubber.

Do not dispose the emptied container unlawfully.

Observe all federal, state, and local laws.

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**SECTION 14. TRANSPORT INFORMATION**

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## &lt;IMO INFORMATION&gt;

ID No.:



None  
 CLASSIFICATION AND CLASS:  
 None  
 PACKAGING GROUP:  
 None  
 PROPER SHIPPING NAME:  
 None  
 TECHNICAL SHIPPING NAME:  
 None  
 MARINE POLLUTANT:  
 None

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<DOT INFORMATION>

ID No.(49CFR 172.101):  
 NA 1993  
 HAZARD CLASS(49CFR 172.101):  
 Combustible Liquid  
 PACKING GROUP(49CFR 172.101):  
 III  
 PROPER SHIPPING NAME(49CFR 172.101):  
 Combustible Liquids, N.O.S.  
 TECHNICAL SHIPPING NAME:  
 Contains Organosilane  
 DOT REPORTABLE QUANTITY(49CFR 172.101, APP.) :  
 HAZARD SUBSTANCE(S) NAME / (CAS No.), CONTENTS AND RQ  
 Zinc compound/(confidential), ca.15 % : 1000 lbs(454kg)

**SECTION 15. REGULATORY INFORMATION**

TOXIC SUBSTANCES CONTROL ACT(TSCA) STATUS:

Listed on the TSCA Inventory.

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SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986(SARA)

TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the emergency planning and community Right-To-Know Act of 1986 and 40 CFR 372.

This information must be included in all MSDS's that are copied and distributed for the material.

The toxic chemical(s) contained in this product are:

CHEMICAL NAME/(CAS No.) AND CONTENTS

Zinc compound/(confidential) : ca.15 %

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CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 Chemical(s) under the statute.

The California Proposition 65 Chemical(s) contained in this product are:



CHEMICAL NAME/(CAS No.) AND CONTENTS

Toluene/(108-88-3) : <0.1 %

We consider that crystalline silica contained in this product does not fall under these chemicals because it does not generate the dust under normal handling condition.

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**SECTION 16. OTHER INFORMATION**

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For Industrial Use Only

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This materials safety data sheet is offered solely for your information, consideration and investigation.

The data described in this MSDS consist of data on literature, our acquisitional data and analogical inference by data of similar chemical substance or product.

Shin-Etsu Chemical Co., Ltd. provides no warranties, either express or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.

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