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**MATERIAL SAFETY DATA SHEET**

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**SECTION 1. COMPANY IDENTIFICATION**

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## 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.)

DATA PREPARED : 07/09/1997

LAST REVISION : 05/12/1999

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BASE NO 4

PRODUCT NAME :

**KE-3472-T**

PRODUCT CLASSIFICATION:

One Component Silicone Rubber Compound

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**SECTION 2. COMPOSITION**

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SINGLE OR MIXTURE:

Mixture

CHEMICAL IDENTIFICATION:

Organopolysiloxane mixture

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

Organopolysiloxane/

(Confidential)[Combustible Liquid] : ca.20 %

Alkenoxysilane/(Confidential)[Flammable Liquid] : ca.10 %

(See Section 8 of this MSDS for Exposure Guideline)

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**SECTION 3. HAZARDS IDENTIFICATION**

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HAZARDS CLASSIFICATION:

Flammable Liquids (based on IMO)

Flammable Liquid (based on DOT)

FIRE AND EXPLOSION:

Flammable

POTENTIAL HEALTH EFFECT:

INHALATION ; Vapor may cause slight irritate nose and throat. Product generates acetone which

may cause irritating to respiratory system and skin. Vapor overexposure may cause drowsiness.

- 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):

1 degrees C (Closed cup)

FLAMMABLE LIMITS:

[Acetone ; decomposed product] LOWER: 2.1% UPPER: 13%

EXTINGUISHING MEDIA:

Foam, dry chemical or carbon dioxide

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.  
This container will be very hazardous when emptied.  
Residues will be explosive or flammable.  
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 : Not established,  
OSHA PEL : Not established [Organopolysiloxane]  
ACGIH TLV-TWA : Not established,  
OSHA PEL : Not established [Alkenoxysilane]  
ACGIH TLV-TWA : 500ppm ; STEL 750ppm,  
OSHA PEL : 8H TWA 1000ppm [Acetone ; decomposed product]

### RESPIRATORY PROTECTION(specify type):

Use air-supplied breathing apparatus unless local exhaust ventilation is adequate  
decomposed product is within TLV and PEL guideline.

### VENTILATION:

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

### PROTECTIVE GLOVES:

Plastic film or rubber gloves

### EYE PROTECTION:

Safety glasses

### 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:

0.98 (25 degrees C)

## MELTING POINT:

Not applicable

## EVAPORATION RATE:

&lt;1 (Butyl Acetate=1)

## SOLUBILITY IN WATER:

Not soluble

## APPEARANCE(color):

Colorless, transparent

## APPEARANCE(form):

Liquid

## ODOR:

Acetone 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 acetone vapors form gradually.

## INCOMPATIBILITY(material to avoid):

Water or moisture

## HAZARDOUS DECOMPOSITION OR BY-PRODUCT:

Water, moisture, or humid air can cause acetone.

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. 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.

## EYE IRRITATION:

No information is available.

## ACUTE TOXICITY(LD50):

LD50(Oral/Rat) : 5.8g/kg [Acetone ; decomposed product]

## ACUTE TOXICITY(LC50):

LC50(Inhalation/Rat) : 50.1g/m3/8Hr  
[Acetone ; decomposed product]

## CHRONIC TOXICITY:

No information is available.

## CARCINOGENICITY:

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

## OTHER INFORMATION:

None

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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 burned in chemical incinerator equipped with afterburner and scrubber but exert extra care in igniting as this product is very flammable.

Do not dispose of the emptied container unless the contents have been completely removed and container has been flushed with a clean neutral solvent and then dried up.

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.:

UN 1133

## CLASSIFICATION AND CLASS:

Flammable Liquids / Class 3.2

## PACKAGING GROUP:

II

## PROPER SHIPPING NAME:

Adhesive

## TECHNICAL SHIPPING NAME:



Contains Organosilane

MARINE POLLUTANT:

None

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<DOT INFORMATION>

ID No.(49CFR 172.101):

UN 1133

HAZARD CLASS(49CFR 172.101):

3, Flammable Liquid

PACKING GROUP(49CFR 172.101):

II

PROPER SHIPPING NAME(49CFR 172.101):

Adhesives, containing a flammable liquid

TECHNICAL SHIPPING NAME:

Contains Organosilane

DOT REPORTABLE QUANTITY(49CFR 172.101, APP.) :

HAZARD SUBSTANCE(S) NAME / (CAS No.), CONTENTS AND RQ

Not applicable

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

\*\* None \*\*

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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

\*\* None \*\*

SECTION 16. OTHER INFORMATION

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



MSDS NO: EU-06-05300436

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**PRODUCT NAME: KE-3472-T**

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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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