

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-3475TUV 17K\EXPZX

PRODUCT CLASSIFICATION:

One Component Silicone Rubber Compound

SECTION 2. COMPOSITION

SINGLE OR MIXTURE:

Mixture

CHEMICAL IDENTIFICATION:

Organopolysiloxane mixture

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

Alkenoxysilane/(Confidential) [Flammable Liquid] : ca.5 %

(See Section 8 of this MSDS for Exposure Guideline)

SECTION 3. HAZARDS IDENTIFICATION

HAZARDS CLASSIFICATION:

Flammable Liquids (based on IMO)

FIRE AND EXPLOSION:

Flammable (But this product does not continue burning and contribute to fire.)

POTENTIAL HEALTH EFFECT:

INHALATION ; Narcotic by evolved vapor.

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.

SECTION 4. FIRST AID MEASURES

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.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT(method used):
17 degrees C (Closed cup)
FLAMMABLE LIMITS:
[Acetone ; decomposed product] LOWER: 2.1% UPPER: 13%
EXTINGUISHING MEDIA:
Foam, dry chemical, carbon dioxide or fine water spray
SPECIAL FIRE FIGHTING PROCEDURE:
None
UNUSUAL FIRE AND EXPLOSION HAZARD:
None

SECTION 6. ACCIDENTAL RELEASE MEASURES

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.

SECTION 7. HANDLING AND STORAGE

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.
This container will be hazardous when emptied.
Residues will be explosive or flammable.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

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 or 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 door open 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:

Not applicable

VAPOR PRESSURE:

Negligible (25 degrees C)

VAPOR DENSITY(air=1):

>1

SPECIFIC GRAVITY:

1.00 (25 degrees C)

MELTING POINT:

Not applicable

EVAPORATION RATE:

<1 (Butyl Acetate=1)

SOLUBILITY IN WATER:

Not soluble

APPEARANCE(color):

Milk-white, translucent

APPEARANCE(form):

Paste

ODOR:Acetone odor

SECTION 10. STABILITY AND REACTIVITY

STABILITY:

Unstable

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:

Acetone (Flammable Liquid)

HAZARDOUS POLYMERIZATION:

Will not occur

CONDITION TO AVOID:None

SECTION 11. TOXICOLOGICAL INFORMATION

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

SECTION 12. ECOLOGICAL INFORMATION

BIODEGRADATION:

Not applicable

BIOACCUMULATION:

No information is available.

AQUATIC TOXICITY:

No information is available.

OTHER INFORMATION:

None

SECTION 13. DISPOSAL CONSIDERATIONS

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.

SECTION 14. TRANSPORT INFORMATION

UN No.:

UN 1993

IMO CLASSIFICATION AND CLASS:

Flammable Liquids / Class 3.2

PACKAGING GROUP:

II

PROPER SHIPPING NAME:

Flammable Liquids, N.O.S.

TECHNICAL SHIPPING NAME:

Contains Organosilane

MARINE POLLUTANT:

None

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.

EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES

(EINECS) STATUS:

Listed on the EINECS.

LABELING ACCORDING TO EC-REGULATIONS REQUIRED:

SYMBOL : F

R-PHRASE : (R-11) Highly flammable

S-PHRASE : (S-7) Keep container tightly closed.

(S-25) Avoid contact with eyes.

(S-51) Use only in well-ventilated areas.

CONTAINS : Organosilane ca.5 %

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 **

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) : <1 %

SECTION 16. OTHER INFORMATION

For Industrial Use Only

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.
