
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:

036-5326380 (Shin-Etsu Silicones Europe B.V., THE NETHERLANDS)

TELEPHONE NUMBER FOR INFORMATION:

03-3246-5121 (Tokyo, JAPAN)

036-5326380 (Shin-Etsu Silicones Europe B.V., THE NETHERLANDS)

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PRODUCT NAME :

KE-4896-T

PRODUCT CLASSIFICATION:

One Component Silicone Rubber Compound

SECTION 2. COMPOSITION

SINGLE OR MIXTURE:

Mixture

CHEMICAL IDENTIFICATION:

Organopolysiloxane mixture

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

Alkoxysilane / (Confidential) [Combustible Liquid] : ca.10 %

(See Section 8 of this MSDS for Exposure Guideline)

SECTION 3. HAZARDS IDENTIFICATION

HAZARDS CLASSIFICATION:

None (based on IMO)

Combustible Liquids (based on DOT)

FIRE AND EXPLOSION:

Combustible

POTENTIAL HEALTH EFFECT:

INHALATION ; Vapor may cause irritate nose and throat.

Product generates methanol which may cause
blindness and damage to nervous system.

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.

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):

60 degrees C (Closed cup)
(See Section 14 of this MSDS for UN No.)

FLAMMABLE LIMITS:

[Methanol ; decomposed product] LOWER: 6.0% UPPER: 36%

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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

ACGIH TLV-TWA : 200ppm ; STEL 250ppm(SKIN),

OSHA PEL : 8H TWA 200ppm [Methanol ; decomposed product]

ACGIH TLV-TWA : Not established,

OSHA PEL : Not established [Alkoxysilane]

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:

1.02 (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:

Alcohol odor

SECTION 10. STABILITY AND REACTIVITY

STABILITY:

Stable

CONDITION TO AVOID:

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

INCOMPATIBILITY(material to avoid):

Water or moisture

HAZARDOUS DECOMPOSITION OR BY-PRODUCT:

Water, moisture, or humid air can cause methanol.

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

SECTION 11. TOXICOLOGICAL INFORMATION

SKIN IRRITATION:

No information is available.

EYE IRRITATION:

No information is available.

ACUTE TOXICITY(LD50):

LD50(Oral/Rat) : 5.628g/kg [Methanol ; decomposed product]

ACUTE TOXICITY(LC50):

LC50(Inhalation/Rat) : 64000ppm/4Hr

[Methanol ; decomposed product]

SUBACUTE TOXICITY:

NOEL : 40mg/kg(weight)/day 28days(rat) [Alkoxysilane]

CHRONIC TOXICITY:

May cause conjunctivitis, dizziness, sleeplessness, and
gastrointestinal and optical disturbances [Methanol ;
decomposed product].

CARCINOGENICITY:

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

MUTAGENICITY:

Negative(Salmonella typhimuriums and Escherichia coli.),
Positive (Chromosome analysis) [Alkoxysilane]

OTHER INFORMATION:

None

SECTION 12. ECOLOGICAL INFORMATION

BIODEGRADATION:

Degradable (after 28days at 100ppm) [Alkoxysilane]

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

<IMO INFORMATION>

ID No.:

None

(This product may take fire by little evolved flammable
vapor when the container is opened and the ignition
sources are brought close to this product. But it does not
continue burning and contribute to fire.)

CLASSIFICATION AND CLASS:

None

PACKAGING GROUP:

None

PROPER SHIPPING NAME:

None

TECHNICAL SHIPPING NAME:

None

MARINE POLLUTANT:

None

* * * * *

<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

Not applicable

SECTION 15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT(TSCA) STATUS:

Not listed on the TSCA Inventory.

**This product should be used in compliance with Low Volume

Exemption under TSCA.

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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
similar chemical substance or product.

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