
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:

02-775-9691 (Shin-Etsu Silicone Korea Co., Ltd.)

TELEPHONE NUMBER FOR INFORMATION:

03-3246-5121 (Tokyo, JAPAN)

02-775-9691 (Shin-Etsu Silicone Korea Co., Ltd.)

DATA PREPARED : 05/06/1994

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BASE NO 2

PRODUCT NAME :

KF-8004

PRODUCT CLASSIFICATION:

Silicone Fluid

SECTION 2. COMPOSITION

SINGLE OR MIXTURE:

Single

CHEMICAL IDENTIFICATION:

Modified organopolysiloxane

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

No hazardous materials present

SECTION 3. HAZARDS IDENTIFICATION

HAZARDS CLASSIFICATION:

None (based on IMO)

None (based on DOT)

FIRE AND EXPLOSION:

Not considered flammable nor combustible, but will burn if involved in a fire.

POTENTIAL HEALTH EFFECT:

INHALATION ; Mist irritating to the respiratory tract. Highly toxic by aerosol inhalation, may cause death.

SKIN contact ; May cause slight skin irritation.

EYES contact ; Causes eyes irritation.

INGESTION ; No information is available.

SECTION 4. FIRST AID MEASURES

INHALATION ; Remove to fresh air and promptly call a physician.

SKIN contact ; Remove product from skin with dry cloth or towel, and wash exposed area with detergent.

EYES contact ; Immediately flush with water for at least 15 minutes.

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):

204 degrees C (Open cup)

>94 degrees C (Closed cup)

FLAMMABLE LIMITS:

LOWER: Not measured UPPER: Not measured

EXTINGUISHING MEDIA:

Foam, dry chemical or carbon dioxide

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:

Contain the spill or leak.

Scrape up with cardboard or rag 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 and flame.

Do not lay the container on its side.

Avoid contact with eyes and skin.

Do not breathe mist.

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 : Not established,

OSHA PEL : Not established

RESPIRATORY PROTECTION(specify type):

See SECTION 11 of this MSDS for OTHER INFORMATION

VENTILATION:

LOCAL EXHAUST: See SECTION 11 of this MSDS for OTHER
INFORMATIONMECHANICAL(general): See SECTION 11 of this MSDS for OTHER
INFORMATION

SPECIAL: Unknown

OTHER: Unknown

PROTECTIVE GLOVES:

Plastic film or rubber gloves

EYE PROTECTION:

Safety glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Eyewash equipment

WORK/HYGIENIC PRACTICES:

Do not breathe mist.

Wash hands after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT:

Not applicable

VAPOR PRESSURE:

Negligible (25 degrees C)

VAPOR DENSITY(air=1):

Not applicable

SPECIFIC GRAVITY:

0.98 (25 degrees C)

MELTING POINT:

Not applicable

EVAPORATION RATE:

Negligible (Butyl Acetate=1)

SOLUBILITY IN WATER:

Not soluble

APPEARANCE(color):

Colorless, transparent

APPEARANCE(form):

Fluid

ODOR:

Slight odor

SECTION 10. STABILITY AND REACTIVITY

STABILITY:

Stable

CONDITION TO AVOID:

None

INCOMPATIBILITY(material to avoid):

None

HAZARDOUS DECOMPOSITION OR BY-PRODUCT:

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

SECTION 11. TOXICOLOGICAL INFORMATION

SKIN IRRITATION:

No information is available.

EYE IRRITATION:

No information is available.

ACUTE TOXICITY(LD50):

No information is available.

ACUTE TOXICITY(LC50):

In studies of rats exposed by inhalation to aerosols of specific aminofunctional silicones show highly toxicity (LC50:<0.5mg/l/4Hr). But for other routes(oral,ingestion and dermal), these responses have not been observed.

CHRONIC TOXICITY:

No information is available.

CARCINOGENICITY:

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

OTHER INFORMATION:

This product can generate formaldehyde at approximately 150 degrees C(300°F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles or protective clothing when this product is heated at approximately 150 degrees



C(300°F) and above in the presence of air.

SECTION 12. ECOLOGICAL INFORMATION

BIODEGRADATION:

No information is available.

BIOACCUMULATION:

No information is available.

AQUATIC TOXICITY:

No information is available.

OTHER INFORMATION:

None

SECTION 13. DISPOSAL CONSIDERATIONS

Can be 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.:

None

IMO CLASSIFICATION AND CLASS:

None

PACKAGING GROUP:

None

PROPER SHIPPING NAME:

None

TECHNICAL SHIPPING NAME:

None

MARINE POLLUTANT:

None

DOT REPORTABLE QUANTITY (RQ) :

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 : Not required
R-PHRASE : Not required
S-PHRASE : Not required
CONTAINS : None

WGK CLASSIFICATION (Water Resources Act in Germany):

WGK=1

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

** None **

SECTION 16. OTHER INFORMATION

For Industrial Use Only

Do not use this product for consumers' spray. Highly toxic by aerosol inhalation, may cause death. Use only with adequate ventilation, wear appropriate protective equipment, including approved respirator.

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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