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TOSSEAL83-C-333ML*F

SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

GHS Product identifier: TOSSEAL83-C*F

Recommended use of the chemical and restrictions on use

Recommended use: Silicone Elastomer Recommended restrictions: Not known.

Supplier's details

Manufacturer/Importer/Distr :

Momentive Performance Materials (Shanghai) Trading Co., Ltd.

ibutor Information No. 227 Libing Road Zhangjiang Hi-tech Park, Pudong

201203 Shanghai

China

Contact person : commercial.services@momentive.com

Telephone : +86-21-3860-4500 **Telefax** : +86-21-5079-3707

Emergency telephone

+00-21-3019-3101

number

Product Stewardship & Compliance

+86-532-8388-9090(NRCC)/400 120 6011 (Carechem24)

2. Hazard(s) identification

Responsible Department

Emergency Overview

Appearance

Color: Colorless
Form: Paste
Physical state: solid
Odor: Faint

Hazard Statement(s): Causes serious eye irritation.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated

exposure.

GHS classification of substance or mixture, and national or regional information

Health Hazards

Serious Eye Damage/Eye

Category 2A

Irritation

Skin sensitizer Category 1
Specific Target Organ Category 2¹

Toxicity - Repeated

Exposure

Target Organs

1. Cardiovascular system

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GHS label elements

Hazard symbol(s):



Signal Word: Warning

Hazard Statement(s): Causes serious eye irritation.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated

exposure.

Precautionary statement(s):

Prevention: Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands

thoroughly after handling. Contaminated work clothing should not be

allowed out of the workplace. Wear protective gloves/eye

protection/face protection.

Response: IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs:

Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical advice/attention.

Disposal: Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

Other hazards which do not result

in GHS classification:

None.

Supplemental label information None.

3. Composition/information on ingredients

Chemical nature: Mixture of polydimethylsiloxanes, fillers and cross-linkers.

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Methyl oxime silane	Trade secret	>=1 - <10%
butanone oxime vinylsilane	2224-33-1	>=0.1 - <1%
Aminofunctional Silane	Trade secret	>=0.1 - <1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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Trade secret information: ** A specific chemical identity and/or percentage of composition has been

withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

Inhalation: Get medical attention.

Skin Contact: Wash the skin immediately with soap and water. Get medical

attention promptly if symptoms occur after washing.

Eye contact: Rinse immediately with plenty of water and seek medical

advice.

Ingestion: Do not induce vomiting. Get medical attention immediately.

Personal Protection for First-

aid Responders:

No data available.

Most important symptoms/effects, acute and delayed

Symptoms: None known.

Hazards: No data available.

Notes to physician

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Remove sources of combustibles. Extinguish the fire using fire-fighting

media listed above. Cool surrounding tanks, buildings and so on by

spraying with water to prevent the fire extension.

The fire fighting should be done from the windward side, with suitable

respiratory protective device, if necessary.

Means of fire extinguishing

Suitable extinguishing

media:

Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from

the chemical:

No data available.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:

Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.

Special protective equipment for fire-fighters:

Wear self-contained breathing apparatus and protective clothing.

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Keep unauthorized personnel away.

Keep upwind.

For non-emergency personnel: Do not allow runoff to sewer, waterway or ground.

For emergency responders: Do not allow runoff to sewer, waterway or ground.

Environmental Precautions: Do not allow runoff to sewer, waterway or ground.

Methods and material for containment and cleaning up:

Put in an empty container for recovery after preventing spill by sand or sandbags, if the amount of spill is large. Put in an empty container for recovery after wiping or soaking up in an inert material, if the amount of spill

is small.

Notification Procedures: Remove sources of ignition.

7. Handling and storage

Precautions for safe handling: Wear appropriate personal protective equipment. Keep away from sources

of ignition - No smoking. Avoid inhalation of vapors and spray mists. Use

only with adequate ventilation.

Conditions for safe storage,

including any incompatibilities:

Store in the low moisture, dark, cool place Keep container closed.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Biological Limit Values

None of the components have assigned exposure limits.

Appropriate Engineering

Controls:

Use only in well-ventilated areas.

Individual protection measures, such as personal protective equipment

General information: Wear suitable gloves and eye/face protection.

Eye/face protection: Safety glasses with side shields

Skin Protection

Hand Protection: Rubber or plastics gloves

Other: Chemical resistant clothing Safety shoes

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Respiratory Protection: Gas mask for organic gas if MEKO exposure limits are exceeded (3 ppm 8-

hr TWA, recommended workplace exposure guideline.

Hygiene measures: Avoid contact with eyes, skin, and clothing. Wash hands after handling.

When using do not eat, drink or smoke.

9. Physical and chemical properties

Appearance

Physical state: solid
Form: Paste
Color: Colorless
Odor: Faint

Odor threshold:

pH:

No data available.

No data available.

No data available.

Not applied

Initial boiling point and boiling range:

Not applied

Flash Point: 81 °C

Evaporation rate: No data available. Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available. Flammability limit - lower (%): No data available. **Explosive limit - upper (%):** No data available. Explosive limit - lower (%): No data available. No data available. Vapor pressure: Vapor density: No data available. Density: 1.04 g/cm3 (23 °C) Relative density: No data available.

Solubility(ies)

Solubility in water: Insoluble

Solubility (other): No data available.

Partition coefficient (n-octanol/water) Log

No data available.

Pow:

Auto-ignition temperature: 450 °C

Decomposition temperature: No decomposition if stored and applied as directed.

SADT: No data available.

Viscosity, dynamic: No data available.

Viscosity, kinematic: No data available.

Specific gravity: No data available.

10. Stability and reactivity

Reactivity: No dangerous reaction if used as recommended.

Chemical Stability: Material is stable under normal conditions.

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Possibility of hazardous

reactions:

Hazardous polymerisation does not occur.

Conditions to avoid: Keep away from heat, sparks and open flame.

Incompatible Materials: Moisture.

Hazardous Decomposition

Products:

Reacts with water/moisture liberating Methylethylketoxime (MEKO) = 2-Butanone-oxime. This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150'C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. A MSDS for formaldehyde is available from

Momentive.

Other information: No data available.

11. Toxicological information

General information: Experience has shown, that the above mentioned product can be used

without any danger to health, as long as the usual conditions of industrial

hygiene are observed.

Information on likely routes of exposure

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity

Oral

Product: No data available.

Specified substance(s):

Aminofunctional Silane LD 50 (Rat): 2,995 mg/kg

Dermal

Product: No data available.

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Specified substance(s):

Aminofunctional

Silane

LD 50LD 50 (Rabbit): > 2,000 mg/kg

Inhalation

Product: No data available.

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Aminofunctional Silane NOAEL (Rat, Oral, 28 d): >= 500 mg/kg

Skin irritation and corrosion

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

butanone oxime

vinylsilane

Risk of serious damage to eyes. Risk of serious damage to eyes.

Aminofunctional Silane OECD Test Guideline 405 (Rabbit): Strongly irritating.

Respiratory or Skin Sensitization

Product: Causes sensitization on guinea-pigs. No human information is available.

Carcinogenicity

Product: No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

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Product: No data available.

Other effects: Toxicity of methyl ethyl ketoxime (MEKO) liberated when the material is

in touch with water or moisture in the air, or the material is curing. SKIN CONTACT: May cause mild skin irritation. EYE CONTACT: Causes severe eye irritation may damage tissue. ACUTE ORAL TOXICITY: LD50 = 4ml/kg (rat). ACUTE INHALATION: 4-hr LC50 = > 4.8mg/l (rat). INHALATION TOXICITY: Narcotic(central nervous system)effects in high concentrations. Effects were reversible when exposure was ended. Prolonged overexposure causes adverse effects on the blood. SKIN SENSITIVITY: Positive (guinea pig). No allergic reaction to humans.CARCINOGENICITY: A lifetime (about two years) inhalation study in male and female mice and rats revealed that liver tumors were observed in male mice and rats at a high exposure level of 375 ppm. OTHER LONG-TERM EXPOSURE TESTS: Atrophy of nasal epithelium cells was observed in both mice and rats at all concentrations. The effect appeared reversible at lower concentrations. PERMISSIBLE CONCENTRATION: TWA 3 ppm (supplier's recommended value), Keep well ventilated (STEL 10 ppm or less). The WEEL recommended

value of AIHA is TWA 10 ppm.

12. Ecological information

Ecotoxicity

Acute hazards to the aquatic environment

Fish

Product: No data available.

Specified substance(s):

Aminofunctional Silane LC50 (Lepomis macrochirus): > 100 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Aminofunctional Silane EC50 (Daphnia magna, 48 h): 87.4 mg/l

Chronic hazards to the aquatic environment

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

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Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Methyl oxime silane
butanone oxime vinylsilane
Aminofunctional Silane
No data available.
No data available.

Other adverse effects: No data available.

13. Disposal considerations

General information: Do not discharge into drains, water courses or onto the ground. See

Section 8 for information on appropriate personal protective equipment.

Disposal methods

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal. The generation of waste should be avoided or minimized wherever possible. The hazard and precautionary statements displayed on the label also apply to any residues left in the

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container.

Contaminated Packaging: Dispose of as unused product.

14. Transport information

National Regulations

China

Not regulated.

IATA

Not regulated.

IMDG

Not regulated.

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Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

Special precautions for user: This product is not regarded as dangerous goods according to the

national and international regulations on the transport of dangerous goods. Keep away from foodstuffs and animal feed.

keep away from odour sensitive materials

15. Regulatory information

National Regulations

The following regulations, rules or standards set forth the requirement for the classification, labeling, use, handling, storage and transportation of chemicals.

Regulations on Safety Administration of Hazardous Chemicals, Decree No.591 of the State Council

Catalogue of Hazardous Chemicals (2015 Version)

Regulation of Safety Use Chemicals at Workplace

Regulations on Labor Protection in Workplaces Where Toxic Products Are Used

GB/T 16483: #Safety data sheet for chemical products - Content and order of sections#

GB/T 17519: Guidance on the compilation of safety data sheets for chemical products

GB 15258:#General rules for preparation of precautionary label for industrial chemicals#

GB 30000.2 ~ GB 30000.29: Rules for classification and labelling of chemicals

GB 13690:#General rule for classification and hazard communication of chemicals#

GB 12268:#List of dangerous goods#

GB 6944:#Classification and code of dangerous goods#

GB 190 #Labels for packages of dangerous goods#

GBZ 2.1#Occupational Exposure Limits for Hazardous Agents in the Workplace, Part 1, Chemical Hazardous Agents #

International regulations Montreal Protocol

Not applicable

Stockholm convention

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Not applicable

Rotterdam Convention

Not applicable

Kyoto Protocol

Not applicable

Inventory Status:

Australia AICS: y (positive listing) Remarks: None.
Canada DSL Inventory List: n (Negative listing) Remarks: None.
EU EINECS List: y (positive listing) Remarks: None.
Japan (ENCS) List: y (positive listing) Remarks: None.
China Inventory of Existing y (positive listing) Remarks: None.

Chemical Substances:

Korea Existing Chemicals Inv. y (positive listing) Remarks: None.

(KECI):

Canada NDSL Inventory: n (Negative listing) Remarks: None.
Philippines PICCS: y (positive listing) Remarks: None.
US TSCA Inventory: q (quantity restricted) Remarks: None.
New Zealand Inventory of y (positive listing) Remarks: None.

Chemicals:

Taiwan. Taiwan inventory y (positive listing) Remarks: None.

(CSNN):

16.Other Information

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Revision Date: No data available.

Version #: 2.0

Further Information: "Wear eye, hand and respiratory protection when in handling."

References: No data available.

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Disclaimer:

Notice to reader

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives.

Further Information

"Wear eye, hand and respiratory protection when in handling." The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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