

TOSSEAL83

SAFETY DATA SHEET

1 Product and company identification

Name of chemical (Product name): TOSSEAL83

Manufacturer/Importer/Distributor Information : Momentive Performance Materials Japan LLC
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Responsible Department : Product Stewardship & Compliance Group

2 Hazard(s) identification

GHS classification:

Health Hazards	Skin sensitizer	Category 1
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GHS label elements

Symbol(s):



Signal Word: Warning

Hazard Statement(s): May cause an allergic skin reaction.

Precautionary Statements

Prevention: Wear protective gloves. Do not breathe dust. Contaminated work clothing should not be allowed out of the workplace.

Response: IF ON SKIN: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Storage: Not applicable

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.

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Other hazards which do not result in GHS classification: None.

Main symptoms and emergency overview

Main symptoms: No data available.

Emergency Overview: No data available.

3 Composition/information on ingredients

Chemical nature: Silicone sealant

Mixtures

Chemical Identity	CAS number	Concentration*
Methyloxime silane	Trade secret	1.0 - 10%
TITANIUM DIOXIDE	13463-67-7	1 - 10%

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

Trade secret information: ** A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4 First-aid measures

Inhalation: If inhaled, move victim to fresh air and seek medical attention.

Eye contact: Flush thoroughly with water for at least 15 minutes. Get medical assistance.

Skin Contact: Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

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

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

5 Fire-fighting measures

Extinguishing media: Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing media: No data available.

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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Keep unprotected persons away. Remove sources of ignition. Use personal protective equipment. Keep upwind.
Environmental Precautions:	Avoid discharge into drains, water courses or onto the ground.
Methods or materials 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.
Prevention of secondary hazards:	Remove sources of ignition.

7 Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	Provide adequate general and local exhaust ventilation. Eyewash bottle with clean water.
Safe handling advice:	"Wear eye, hand and respiratory protection when in handling." Protect from moisture. Seal opened containers and use up as soon as possible. This product release Methyl Ethyl Ketoxime during curing. Use only in well-ventilated areas.
Contact avoidance measures:	No data available.
Hygiene measures:	No data available.

Storage

Safe storage conditions:	Store in a dark, cool place indoors, with container tightly closed.
Safe packaging materials:	No data available.

8 Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits:

Chemical name	Type	Exposure Limit Values	Regulation Sources
TITANIUM DIOXIDE - Respirable dust.	TWA	1 mg/m3	Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2014)
TITANIUM DIOXIDE - Total dust.	TWA	4 mg/m3	Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2014)

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Chemical name	Type	Exposure Limit Values	Regulation Sources
TITANIUM DIOXIDE	TWA	0.3 mg/m3	Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2014)

Personal protective equipment (ppe)

Respiratory Protection:	Gas mask for organic gas if MEKO exposure limits are exceeded (3 ppm 8-hr TWA, recommended workplace exposure guideline.
Eye Protection:	Safety glasses with side shields
Hand Protection:	No data available.
Skin and Body Protection:	Chemical resistant clothing Wear rubber boots.

9 Physical and chemical properties

Appearance

Physical state:	solid
Form:	Paste
Color:	Off-white
Odor:	Ketones
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
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.
Vapor pressure:	No data available.
Density:	1.03 g/cm3 (23 °C)
Vapor density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Auto-ignition temperature:	No data available.

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Decomposition temperature: No data available.
SADT: No data available.
Viscosity, dynamic: 350,000 mPa·s
Viscosity, kinematic: No data available.

Other information

Minimum ignition temperature: 450 °C

10 Stability and reactivity

Reactivity: No data available.

Chemical Stability: Stable

Possibility of hazardous reactions: No data available.

Conditions to avoid: No data available.

Incompatible Materials: The catalysis of strong acids or bases cause polymerization or decomposition.

Hazardous Decomposition Products: Reacts with water/moisture liberating Methylketoxime (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.

11 Toxicological information

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: No data available.
Specified substance(s):
 TITANIUM DIOXIDE LD 50 (Rat: > 10,000 mg/kg)

Dermal

Product: No data available.
Specified substance(s):
 TITANIUM DIOXIDE LD 50 (Rabbit: > 10,000 mg/kg)

Inhalation

Product: No data available.
Specified substance(s):
 TITANIUM DIOXIDE LC50 (Rat, 4 h): > 6.8 mg/l

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Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

Japan Society for Occupational Health: Carcinogen:

TITANIUM DIOXIDE No data available.

Japan. ISHL Designated Carcinogen:

No carcinogenic components identified

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

TITANIUM DIOXIDE 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

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:

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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):

TITANIUM DIOXIDE LC0 (Leuciscus idus, 48 h): > 1,000 mg/l

Aquatic Invertebrates

Product: No data available.

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

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

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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

Methyloxime silane No data available.

TITANIUM DIOXIDE No data available.

Hazardous to the ozone layer: No data available.

Other adverse effects: No data available.

13 Disposal considerations

General information: none

Disposal methods: This product falls under Industrial Waste based on Wastes Disposal and Public Cleansing Law. Dispose of in accordance with this law and local regulations.

Contaminated Packaging: No data available.

14 Transport information

International regulations

IMDG - International Maritime Dangerous Goods Code

Not regulated.

IATA

Not regulated.

National Regulations

Domestic Standard: In compliance with domestic law.

15 Regulatory information

Law concerning Pollutant Release and Transfer Register

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PRTR and Promotion of Chemical Management Law, new regulated substances (Cabinet Order No. 356, 2008):

Specified Class 1 substance(s): Not applicable
Specified Class 1 substance(s): Not applicable
Class 1 Substance(s): Not applicable
Class 2 Substance(s): Not applicable

Industrial Safety and Health Act:

Article 57-2 Regulated Substance(s): Titanium (IV) oxide,
Article 57 Regulated Substance(s) subject to labeling: Titanium (IV) oxide,

ISHL Organic Solvents

ISHL Designated or Specified Chemical Substances

Poisonous and Deleterious Substances Control Act:

Specified poisonous substance(s):
Main law: Not applicable
Cabinet order: Not applicable

Poisonous Substance(s):
Main law: Not applicable
Cabinet order: Not applicable

Deleterious Substance(s):
Main law: Not applicable
Cabinet order: Not applicable

High Pressure Gas Safety Law
Not applicable

Fire Service Law:
Designated Combustible material (Combustible Solid) No fire

Japan CSCL: Priority Assessment Chemical Substances: Not applicable

Act on Prevention of Marine Pollution and Maritime Disaster: Not applicable

Inventory Status

Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.
Australia AICS:	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	Not in compliance with the inventory.	Remarks: None.
EINECS, ELINCS or NLP:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.

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Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	q (quantity restricted)	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.

16 Other Information

OTHER INFORMATION: "Wear eye, hand and respiratory protection when in handling."

Revision Information: ARGLO_INVSTS
Issue Date: 11/03/2018
SDS No.:
Disclaimer:

Notice to reader

This material is developed and manufactured for industrial applications only. For medical or other special applications, use after performing safety testing on the product and confirming safety. Never use for human applications such as implant, impregnation, or where a residue may possibly remain in the body.

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 safehandling, 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.

Literature Reference: No data available.