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TOSSEAL811-G2

SAFETY DATA SHEET

Product and company identification

Name of chemical (Product

name)

TOSSEAL811-G2

Manufacturer/Importer/Distr

ibutor Information

Momentive Performance Materials Japan LLC

Akasaka Park Building

5-2-20 Akasaka, Minato-ku

Tokyo Japan

Contact person commercial.services@momentive.com

Telephone +81-3-5544-3100 Telefax +81-3-5544-3101

Emergency telephone

+81-3-5544-3111

number

+81-276-31-4118 (night / weekend)

Responsible Department Product Stewardship & Compliance Group

2 Hazard(s) identification

GHS classification:

Health Hazards:

Skin sensitizer Category 1

GHS label elements:

Pictograms:



Signal Word: Warning

Hazard Statement: May cause an allergic skin reaction.

Precautionary Statements:

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work

clothing should not be allowed out of the workplace. Wear protective gloves.

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

medical advice/attention. Specific treatment (see on this label). Take off

contaminated clothing and wash it before reuse.

Storage: Not applicable

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

facility in accordance with applicable laws and regulations, and product

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characteristics at time of disposal.

Other hazards which do not result in classification:

none

3 Composition/information on ingredients

Chemical nature: Silicone sealant

Mixtures

Chemical Identity	CAS number	Concentration*
Phenyl functional oximesilane	Trade secret	1.0 - 10%
TITANIUM DIOXIDE	13463-67-7	0.1 - 1.0%
ANTIMONY NICKEL	8007-18-9	0.42%
TITANIUMOXIDE YELLOW		
Aminoethyl aminopropyl trimethoxy	1760-24-3	0.1 - 1.0%
silane		

^{*} 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.

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

promptly if symptoms occur after washing.

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

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

Most important symptoms/effects, acute and delayed

Symptoms: None known.

Hazards: No data available.

5 Fire-fighting measures

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

Unsuitable extinguishing

media:

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

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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: Do not allow runoff to sewer, waterway or 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." Keep away

from sources of ignition - No smoking. 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. Avoid

inhalation of vapors and spray mists.

Contact avoidance measures: Wear suitable gloves and eye/face protection.

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

When using do not eat, drink or smoke.

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	Туре	Exposure Limit Values	Regulation Sources
Calcium Carbonate -	TWA	1 mg/m3	Japan. OELs - JSOH
Respirable dust.			(Recommendation of
			Occupational Exposure Limits),
			as amended (05 2014)
	TWA	2 mg/m3	Japan. OELs - JSOH
	,		(Recommendation of
			Occupational Exposure Limits),
			as amended (05 2014)
Calcium Carbonate - Total	TWA	4 mg/m3	Japan. OELs - JSOH
dust.		_	(Recommendation of
			Occupational Exposure Limits),
			as amended (05 2014)
	TWA	8 mg/m3	Japan. OELs - JSOH

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Chemical name	Type Exposure Limit Values		Regulation Sources	
			(Recommendation of Occupational Exposure Limits), as amended (05 2014)	
Calcium Carbonate - Respirable dust.	TWA	2 mg/m3	Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (09 2015)	
Calcium Carbonate - Total dust.	TWA	8 mg/m3	Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (09 2015)	
Calcium Carbonate - Dust.	TLV	0.025 mg/m3	Japan. OELs - ISHL. (Workplace Environment Assessment Standards), as amended (04 2020)	
Calcium Carbonate - Respirable dust.	TWA	1 mg/m3	Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2020)	
Calcium Carbonate - Total dust.	TWA	4 mg/m3	Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (05 2020)	

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.

Hand Protection: Chemical resistant gloves

Eye Protection: Safety glasses with side shields

Skin and Body Protection: Chemical resistant clothing Safety shoes

9 Physical and chemical properties

Physical state:solidForm:PasteColor:GrayOdor:Ketones

Odor thresholdNo data available.Melting point/freezing pointNo data available.Initial boiling point and boiling rangeNot applicableFlammabilityNo data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

No data available.

No data available.

No data available.

No data available.

Flash Point >70 °C

Evaporation rateNo data available.

Auto-ignition temperature 450 °C

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Decomposition temperature

No data available.

No data available.

No data available.

No data available.

Viscosity dynamic: 200 000 mPa;s (23

Viscosity, dynamic:200,000 mPa·s (23 °C)Viscosity, kinematic:> 7 mm2/s (40 °C)

Solubility(ies)

Solubility in water: Insoluble Solubility (other): Insoluble

Partition coefficient (n-octanol/water)Log

Pow

No data available.

Vapor pressureNo data available.Density1.25 g/cm3 (23 °C)Relative densityNo data available.Vapor densityNo data available.

10 Stability and reactivity

Reactivity: No dangerous reaction if used as recommended.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

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

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

decomposition.

Hazardous Decomposition

Products:

Reacts with water/moisture liberating Methylethylketoxime (MEKO) = 2-Butanone-oxime. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed

due to evidetive degree detice

due to oxidative degradation.

11 Toxicological information

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Components:

Phenyl functional oximesilane

No data available.

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TITANIUM DIOXIDE LD 50 (Rat): > 10,000 mg/kg

ANTIMONY NICKEL TITANIUMOXIDE YELLOW No data available.

Aminoethyl aminopropyl trimethoxy silane

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

Dermal

Product: Not classified for acute toxicity based on available data.

Components:

Phenyl functional oximesilane

No data available.

TITANIUM DIOXIDE LD 50 (Rabbit): > 10,000 mg/kg

ANTIMONY NICKEL TITANIUMOXIDE YELLOW No data available.

Aminoethyl aminopropyl trimethoxy

aminopropyr tiimetrioxy

silane

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

Inhalation

Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Components:

Aminoethyl aminopropyl trimethoxy silane

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

Skin Corrosion/Irritation

Product: No data available.

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Components:

Phenyl functional oximesilane

No data available.

TITANIUM DIOXIDE No data available.

ANTIMONY NICKEL TITANIUMOXIDE **YELLOW**

No data available.

Aminoethyl

aminopropyl trimethoxy

OECD Test Guideline 404 (Rabbit): No skin irritation

silane

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Phenyl functional oximesilane

No data available.

TITANIUM DIOXIDE No eye irritation

ANTIMONY NICKEL TITANIUMOXIDE

YELLOW

No data available.

Aminoethyl aminopropyl trimethoxy

silane

OECD Test Guideline 405 (Rabbit): Strongly irritating.

Respiratory sensitization

Product: No data available.

Components:

Phenyl functional oximesilane

No data available.

TITANIUM DIOXIDE No data available.

ANTIMONY NICKEL TITANIUMOXIDE

YELLOW

No data available.

Aminoethyl

aminopropyl trimethoxy

silane

No data available.

Skin sensitization

Product: No data available.

Components:

Phenyl functional oximesilane

No data available.

TITANIUM DIOXIDE No data available.

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ANTIMONY NICKEL TITANIUMOXIDE YELLOW

No data available.

Aminoethyl

aminopropyl trimethoxy

silane

No data available.

Carcinogenicity

Product: No data available.

Components:

Phenyl functional oximesilane

No data available.

TITANIUM DIOXIDE No data available.

ANTIMONY NICKEL TITANIUMOXIDE YELLOW No data available.

Aminoethyl aminopropyl

trimethoxy silane

No data available.

Japan Society for Occupational Health: Carcinogen:

No carcinogenic components identified

Japan. ISHL Designated Carcinogen:

No carcinogenic components identified

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:

Phenyl functional oximesilane

No data available.

TITANIUM DIOXIDE No data available.

ANTIMONY NICKEL TITANIUMOXIDE

No data available.

YELLOW

trimethoxy silane

Aminoethyl aminopropyl

No data available.

In vivo

Product: No data available.

Components:

Phenyl functional No data available.

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oximesilane

TITANIUM DIOXIDE No data available.

ANTIMONY NICKEL TITANIUMOXIDE YELLOW

No data available.

Aminoethyl aminopropyl trimethoxy silane

No data available.

Reproductive toxicity

Product: No data available.

Components:

Phenyl functional oximesilane

No data available.

TITANIUM DIOXIDE No data available.

ANTIMONY NICKEL TITANIUMOXIDE YELLOW

No data available.

Aminoethyl aminopropyl trimethoxy silane

No data available.

Specific Target Organ Toxicity - Single Exposure
Product:

No data available.

Components:

Phenyl functional oximesilane

No data available.

TITANIUM DIOXIDE No data available.

ANTIMONY NICKEL TITANIUMOXIDE YELLOW No data available.

Aminoethyl aminopropyl trimethoxy silane

No data available.

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

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Components:

Phenyl functional oximesilane

No data available.

TITANIUM DIOXIDE

No data available.

No data available.

ANTIMONY NICKEL TITANIUMOXIDE **YELLOW**

Aminoethyl aminopropyl

trimethoxy silane

No data available.

Aspiration Hazard Product:

No data available.

Components:

Phenyl functional oximesilane

No data available.

TITANIUM DIOXIDE

No data available.

ANTIMONY NICKEL TITANIUMOXIDE

YELLOW

No data available.

Aminoethyl aminopropyl

trimethoxy silane

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**

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Ecotoxicity:

Acute hazards to the aquatic environment

Fish

Product: No data available.

Components:

TITANIUM DIOXIDE LC0 (Leuciscus idus, 48 h): > 1,000 mg/l Aminoethyl aminopropyl LC50 (Lepomis macrochirus): > 100 mg/l trimethoxy silane

Aquatic Invertebrates

Product: No data available.

Components:

EC50 (Daphnia magna, 48 h): 87.4 mg/l Aminoethyl aminopropyl trimethoxy silane

Toxicity to Aquatic Plants

Product: No data available.

Components:

No data available. Phenyl functional oximesilane

TITANIUM DIOXIDE No data available. ANTIMONY NICKEL No data available.

TITANIUMOXIDE **YELLOW**

Aminoethyl aminopropyl No data available. trimethoxy silane

Toxicity to microorganisms

Product: No data available.

Components

Phenyl functional No data available. oximesilane

EC0 (Pseudomonas putida, 24 h): > 10,000 mg/l TITANIUM DIOXIDE ANTIMONY NICKEL No data available.

TITANIUMOXIDE

YELLOW

Aminoethyl aminopropyl

trimethoxy silane

No data available.

Chronic hazards to the aquatic environment

Fish

No data available. **Product:**

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

No data available. Phenyl functional

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oximesilane

TITANIUM DIOXIDE ANTIMONY NICKEL TITANIUMOXIDE No data available. No data available.

YELLOW

Aminoethyl aminopropyl

trimethoxy silane

No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

TITANIUM DIOXIDE 0 %

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 in soil: No data available.

Hazardous to the ozone layer: No data available.

Further Information: 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: Dispose of as unused product.

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.

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15	Regulat	ory in	format	ion
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Japan CSCL:

Priority Assessment Chemical Substances: Not Regulated

Monitoring Chemical Substances: Not Regulated

Law concerning Pollutant Release and Transfer Register:

Specified Class 1 substance(s): NICKEL COMPOUNDS;

Class 1 Substance(s):

Class 2 Substance(s):

Not Regulated

Not Regulated

Industrial Safety and Health Act:

Article 57-2 Regulated Substance(s): TITANIUM DIOXIDE; ANTIMONY AND

ANTIMONY COMPOUNDS

(EXCLUDING DIANTIMONY TRIOXIDE);

NICKEL COMPOUNDS;

Article 57 Regulated Substance(s)

ANTIMONY AND ANTIMONY COMPOUNDS

subject to labeling: (EXCLUDING DIANTIMONY TRIOXIDE)

NICKEL COMPOUNDS

Organic Solvent Regulation Not Regulated

Specified Substances Regulation: Class 1 designated chemical substances:

Not Regulated

Class 2 designated chemical substances:

Not Regulated

Class 3 designated chemical substances:

Not Regulated

Poisonous and Deleterious Substances Control Act:

Specified poisonous substance(s):

Main law: Not Regulated

Cabinet order: Not Regulated

Poisonous Substance(s):

Main law: Not Regulated

Cabinet order: Not Regulated

Deleterious Substance(s):

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Main law: Not Regulated

Cabinet order: Not Regulated

Fire Service Law: Designated Combustible material (Combustible Solid)

Keep away from fire

High Pressure Gas Safety Law: Not Regulated

Act on Prevention of Marine Pollution and Maritime

Not Regulated

Disaster:

Inventory Status:

Australia AICS: 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 DSL Inventory List:y (positive listing)Remarks: None.Canada NDSL Inventory:n (negative listing)Remarks: None.Philippines PICCS:n (negative listing)Remarks: None.US TSCA Inventory:y (positive listing)Remarks: None.Taiwan. Taiwan inventoryy (positive listing)Remarks: None.

(CSNN):

16 Other Information

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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

The information provided in this Safety Data Sheet is correct to the best ofour 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.

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