

YG 6111

SAFETY DATA SHEET

1 Product and company identification

Name of chemical (Product name): YG 6111

Manufacturer : Momentive Performance Materials Japan LLC
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 5-2-20 Akasaka, Minato-ku
 Tokyo Japan

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2 Hazard(s) identification

GHS classification:

Health Hazards	Toxic to reproduction	Category 2
	Toxic to reproduction	Category 2
	Specific Target Organ Toxicity - Single Exposure	Category 1
	Specific Target Organ Toxicity - Repeated Exposure	Category 1
Environmental Hazards	Acute hazards to the aquatic environment	Category 1
	Chronic hazards to the aquatic environment	Category 1

GHS label elements

Symbol(s):



Signal Word: Danger

Hazard Statement(s): Suspected of damaging fertility or the unborn child.
 Causes damage to organs.
 Causes damage to organs through prolonged or repeated exposure.
 Very toxic to aquatic life with long lasting effects.

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Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment. Do not breathe vapors. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Response: Collect spillage. Get medical advice/attention if you feel unwell. IF exposed: Call a POISON CENTER/doctor.

Storage: Store locked up.

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.

Main symptoms and emergency overview

Main symptoms: No data available.

Emergency Overview: No data available.

3 Composition/information on ingredients

Chemical nature: Silicone compound

Mixtures

Chemical Identity	CAS number	Concentration*
Zinc oxide	1314-13-2	50 - 60%
Aluminum oxide	1344-28-1	10 - 20%

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

4 First-aid measures

Inhalation: Move to fresh air. Get medical attention if symptoms persist.

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: If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice. Never give liquid to an unconscious person.

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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.

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 ventilation. Provide eyewash station and safety shower.
Safe handling advice: Wear suitable protective clothing, gloves and eye/face protection. 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.

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8 Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits:

Chemical name	Type	Exposure Limit Values	Regulation Sources
Zinc oxide - Respirable dust.	TWA	1 mg/m3	Japan. OELs - JSOH. (Japan Society of Occupational Health: Advisory Opinion on Permissible [Exposure] Limits) (05 2014)
Zinc oxide - Total dust.	TWA	4 mg/m3	Japan. OELs - JSOH. (Japan Society of Occupational Health: Advisory Opinion on Permissible [Exposure] Limits) (05 2014)
Aluminum oxide - Respirable dust.	TWA	0.5 mg/m3	Japan. OELs - JSOH. (Japan Society of Occupational Health: Advisory Opinion on Permissible [Exposure] Limits) (05 2014)
Aluminum oxide - Total dust.	TWA	2 mg/m3	Japan. OELs - JSOH. (Japan Society of Occupational Health: Advisory Opinion on Permissible [Exposure] Limits) (05 2014)

Personal protective equipment (ppe)

- Respiratory Protection:** No protection is ordinarily required under normal conditions of use and with adequate ventilation.
- 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:** No data available.
- Form:** Paste
- Color:** White
- Odor:** Faint
- Odor threshold:** No data available.
- pH:** No data available.
- Melting point/freezing point:** No data available.
- Initial boiling point and boiling range:** not applicable
- Flash Point:** 330 °C
- Evaporation rate:** No data available.
- Flammability (solid, gas):** No data available.

Upper/lower limit on flammability or explosive limits

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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:	2.46 g/cm ³ (20 °C)
Vapor density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.

10 Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	None known.
Incompatible Materials:	The catalysis of strong acids or bases cause polymerization or decomposition.
Hazardous Decomposition Products:	Carbon Monoxide. Carbon dioxide. Silicon dioxide. Metal oxides. This product may contain component(s) which could 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

General information:	This product is not tested.
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Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: No data available.
Specified substance(s):
Zinc oxide LD 50 (Rat, No data available.): > 5,000 mg/kg (No data available.)

Dermal

Product: No data available.

Inhalation

Product: No data available.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):
Zinc oxide No data available. (Rabbit): No skin irritation

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:

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

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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: None.

12 Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment

Fish
Product: No data available.

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

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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

Zinc oxide No data available.

Aluminum oxide 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

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UN Number	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(zinc oxide)
Class	9
Packing Group	III
Label(s)	9
Subsidiary risk label	
Marine Pollutant	Yes
EmS No.	F-A; S-F

IATA

UN Number:	UN 3077
Proper Shipping Name:	Environmentally hazardous substance, solid, n.o.s.(zinc oxide)
Transport Hazard Class(es):	
Class:	9
Label(s):	9MI
Packing Group:	III
Environmental Hazards:	Environmentally hazardous
Marine Pollutant:	Yes

National Regulations

Domestic Standard: In compliance with domestic law.

15 Regulatory information

Law concerning Pollutant Release and Transfer Register

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

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): Zinc oxide, Aluminum oxide,
Article 57 Regulated Substance(s) subject to labeling: Zinc oxide, Aluminum 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

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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 (Synthetic Resins)

No fire

Japan CSCL: Priority Assessment Chemical Substances: not applicable

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

Inventory Status

Australia AICS:	y (positive listing)	Remarks: None.
Canada DSL Inventory List:	y (positive listing)	Remarks: None.
EU EINECS List:	y (positive listing)	Remarks: None.
Japan (ENCS) List:	y (positive listing)	Remarks: None.
China Inventory of Existing Chemical Substances:	y (positive listing)	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	y (positive listing)	Remarks: None.
Canada NDSL Inventory:	n (Negative listing)	Remarks: None.
Philippines PICCS:	y (positive listing)	Remarks: None.
US TSCA Inventory:	y (positive listing)	Remarks: None.
New Zealand Inventory of Chemicals:	y (positive listing)	Remarks: None.
Taiwan. Taiwan inventory (CSNN):	y (positive listing)	Remarks: None.

16 Other Information

Revision Information:

Issue Date: 11/09/2017

SDS No.:

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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 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.