

TSK5303

# SAFETY DATA SHEET

## 1 Product and company identification

**Name of chemical (Product name)** : TSK5303

**Manufacturer/Importer/Distributor Information** : Momentive Performance Materials Japan LLC  
Akasaka Park Building  
5-2-20 Akasaka, Minato-ku  
Tokyo Japan

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**Telefax** : +81-3-5544-3101

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

**Responsible Department** : Product Stewardship & Compliance Group

## 2 Hazard(s) identification

### GHS classification:

#### Environmental Hazards:

Acute hazards to the aquatic environment	Category 1
Chronic hazards to the aquatic environment	Category 1

### GHS label elements:

#### Pictograms:



**Signal Word:** Warning

**Hazard Statement:** Very toxic to aquatic life with long lasting effects.

#### Precautionary Statements:

**Prevention:** Avoid release to the environment.

**Response:** Collect spillage.

**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 compound

**Mixtures**

Chemical Identity	CAS number	Concentration*
Zinc oxide	1314-13-2	70 - 80%

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

**4 First-aid measures**

**General:** Get medical attention if symptoms occur.

**Inhalation:** Move into fresh air and keep at rest. Get medical attention if symptoms occur.

**Skin Contact:** After contact with skin, wash immediately with plenty of 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:** If swallowed, do NOT induce vomiting. Give a glass of water. Do not give victim anything to drink if he is unconscious. Get medical attention if any discomfort continues.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** No data available.

**Hazards:** No data available.

**Notes to the physician:** Treatment is symptomatic and supportive.

**5 Fire-fighting measures**

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

**Unsuitable extinguishing media:** No data available.

**Unusual Fire & Explosion Hazards:** In case of fire, carbon monoxide and carbon dioxide may be formed. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

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**Special fire fighting procedures:** 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.

**Protective Measures:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**6 Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Keep unprotected persons away. 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. Provide eyewash station and safety shower.

**Safe handling advice:** Wear appropriate personal protective equipment. Use only in well-ventilated areas. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

**Contact avoidance measures:** Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

**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	Type	Exposure Limit Values	Regulation Sources
Zinc oxide - Respirable dust.	TWA	1 mg/m3	Japan. OELs - JSOH (Recommendation of

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

**Personal protective equipment (ppe)**

- Respiratory Protection:** Use only in well-ventilated areas. Wear suitable respiratory protection.
- Hand Protection:** Chemical resistant gloves
- Eye Protection:** Safety glasses with side shields
- Skin and Body Protection:** Chemical resistant clothing Wear rubber boots.

**9 Physical and chemical properties**

<b>Physical state:</b>	solid
<b>Form:</b>	Paste
<b>Color:</b>	White
<b>Odor:</b>	Odorless
<b>Odor threshold</b>	No data available.
<b>Melting point/freezing point</b>	No data available.
<b>Initial boiling point and boiling range</b>	No data available.
<b>Flammability</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Flash Point</b>	320 °C
<b>Evaporation rate</b>	No data available.
<b>Auto-ignition temperature</b>	450 °C
<b>Decomposition temperature</b>	No data available.
<b>SADT</b>	No data available.
<b>pH</b>	No data available.
<b>Viscosity, dynamic:</b>	No data available.
<b>Viscosity, kinematic:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Insoluble
<b>Solubility (other):</b>	Insoluble
<b>Partition coefficient (n-octanol/water)Log Pow</b>	No data available.
<b>Vapor pressure</b>	No data available.
<b>Density</b>	2.46 g/cm3 (25 °C)
<b>Relative density</b>	No data available.
<b>Vapor density</b>	No data available.

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**10 Stability and reactivity**

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	No data available.
<b>Conditions to avoid:</b>	No data available.
<b>Incompatible Materials:</b>	The catalysis of strong acids or bases cause polymerization or decomposition.
<b>Hazardous Decomposition Products:</b>	Carbon Monoxide. Carbon dioxide Metal oxides. Silicon dioxide. 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**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

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

**Components:**

Zinc oxide LD 50 (Rat): > 5,000 mg/kg

**Dermal**

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

**Components:**

Zinc oxide No data available.

**Inhalation**

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

**Repeated dose toxicity**

**Product:** No data available.

**Skin Corrosion/Irritation**

**Product:** No data available.

**Components:**

Zinc oxide (Rabbit): No skin irritation

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

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**Components:**

Zinc oxide

(Rabbit): slightly irritating (not classified according to the German Dangerous Substances legislation)  
No data available.

**Respiratory sensitization**

**Product:**

No data available.

**Components:**

Zinc oxide

No data available.

**Skin sensitization**

**Product:**

No data available.

**Components:**

Zinc oxide

No data available.

**Carcinogenicity**

**Product:**

No data available.

**Components:**

Zinc oxide

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:**

Zinc oxide

No data available.

**In vivo**

**Product:**

No data available.

**Components:**

Zinc oxide

No data available.

**Reproductive toxicity**

**Product:**

No data available.

**Components:**

Zinc oxide

No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:**

No data available.

**Components:**

Zinc oxide

No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

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**Product:** No data available.

**Components:**  
 Zinc oxide No data available.

**Aspiration Hazard Product:** No data available.

**Components:**  
 Zinc oxide No data available.

**Other effects:** No data available.

**12 Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment**

**Fish**  
**Product:** No data available.

**Aquatic Invertebrates**  
**Product:** No data available.

**Toxicity to Aquatic Plants**  
**Product:** No data available.

**Components:**  
 Zinc oxide No data available.

**Toxicity to microorganisms**  
**Product:** No data available.

**Components**  
 Zinc oxide EC0 (Pseudomonas aeruginosa): 500 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.

**Components:**  
 Zinc oxide No data available.

**Persistence and Degradability**

**Biodegradation**  
**Product:** No data available.

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**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:** Not Regulated

**Further Information:** 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:** 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**

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



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Marine Pollutant: Yes  
**National Regulations**  
**Domestic Standard:** In compliance with domestic law.

**15 Regulatory information**

**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):** Not Regulated

**Class 1 Substance(s):** Not Regulated

**Class 2 Substance(s):** Not Regulated

**Industrial Safety and Health Act:**

**Article 57-2 Regulated Substance(s):** ZINC OXIDE;

**Article 57 Regulated Substance(s) subject to labeling:** ZINC OXIDE

**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):**

**Main law:** Not Regulated

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**Cabinet order:** Not Regulated

**Fire Service Law:** Designated Combustible Material (Synthetic Resins)

**High Pressure Gas Safety Law:** Not Regulated

**Act on Prevention of Marine Pollution and Maritime Disaster:** Not Regulated

**Inventory Status:**

Australia AICS:	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	On or 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.
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:	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.
REACH:	If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants.	Remarks: None.

**16 Other Information**

**Revision Information:** ARGLO\_INVSTSARGHS\_JP  
**Issue Date:** 07/14/2021  
**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 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.

**Literature Reference:** No data available.