

Issue date 23-Nov-2016

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Version 1

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

- (a) **Product name**  
**Product identifier** Paste for petrolatum anti-corrosion  
 NO59M
- (b) **Other means of identification**  
**Product Code** P020-00030798-0000-GHS
- (c) **Recommended Use** Paste for petrolatum anti-corrosion
- (d) **Supplier Address** Nitto Denko Corporation Toyohashi Plant  
 18, Hirayama, Nakahara-cho, Toyohashi, Aichi, 441-3194, Japan  
 TEL.+81-532-41-7242, FAX. +81-532-41-7284
- Emergency telephone number** +81-532-41-1121(TOYOHASHI PLANT)

## 2. Hazards Identification

(a) **GHS - Classification**  
**Carcinogenicity** Category 1B

(b) **Label elements**  
**Symbols/Pictograms**



**Signal Word**

**Danger**

**hazard statements**

May cause cancer

**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Do not eat, drink or smoke when using this product  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash hands thoroughly after handling

**Precautionary Statements - Response**  
**Eye contact**

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

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician if you feel unwell

**Ingestion**

Do NOT induce vomiting  
 Call a physician

**Storage**

Keep locked up

**Disposal**

Dispose of contents/container to an approved waste disposal plant

(c) **Other Hazards**

No information available

## 3. Composition/information on Ingredients

**Single Substance or Mixture** Mixture

Chemical name	CAS No	Concentration or concentration ranges
Kieselguhr, calcined	91053-39-3	15-21
Silica, cristobalite	14464-46-1	8-12

Silicon dioxide	14808-60-7	<1
Cellulose	-	<0.3
Paraffin wax	-	18-26
Talc	14807-96-6	17-21
Others	-	<5
Mineral oil	-	22-28

\* The exact percentage (concentration) of composition has been withheld as a trade secret

#### 4. First aid measures

##### (a) General information

###### Skin contact

Wash with plenty of water and soap

###### Eye contact

Rinse cautiously with water for several minutes

Remove contact lenses, if present and easy to do. Continue rinsing

Call a physician if irritation persists

###### If inhaled

Remove to fresh air

Seek medical attention

###### Ingestion

Do not induce vomiting without medical advice

Get medical attention

##### (b) Most important symptoms/effects, acute and delayed:

No information available

##### (c) Self-protection of the first aider

No information available

###### Note to physicians

No information available

#### 5. Fire-fighting measures

##### (a) Fire extinguishing agent

CO2 (except for Cyanides), dry chemical, dry sand, alcohol-resistant foam

###### Prohibited media

Do not use straight streams

##### (b) Special exposure hazards in a fire

Fire may produce dense black smoke

Contact with acids may release hydrogen sulfide

##### (c) Special protective equipment and precautions for firefighters

Due to poisonous gas (chlorine gas and so on) may be occurred, if needed, use Gas mask and Goggles

#### 6. Accidental release measures

##### (a) Personal Precautions

Will not occur. Not specified

###### Protective equipment and emergency procedures

No information available

##### (b) Environmental precautions

No information available

##### (c) Methods and material for containment and cleaning up

Will not occur. Not specified

#### 7. Handling and Storage

##### (a) Precautions for safe handling

No information available

##### (b) Storage conditions

Store at room temperature and normal humidity away from direct sunlight

#### 8. Exposure Controls/Personal Protection

##### (a) Control parameters

<u>Chemical name</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>Ontario TWA</u>	<u>European Union</u>
Silica, cristobalite	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	(vacated) TWA: 0.05 mg/m <sup>3</sup> respirable dust : (1/2)(30)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA total dust : (1/2)(250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable	TWA: 0.05 mg/m <sup>3</sup>	-

		fraction : (1/2)(10)/(%SiO2 + 2) mg/m <sup>3</sup> TWA respirable fraction		
Silicon dioxide	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	(vacated) TWA: 0.1 mg/m <sup>3</sup> respirable dust : (30)/(%SiO2 + 2) mg/m <sup>3</sup> TWA total dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction : (10)/(%SiO2 + 2) mg/m <sup>3</sup> TWA respirable fraction	TWA: 0.10 mg/m <sup>3</sup>	-
Cellulose	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 5 mg/m <sup>3</sup> (vacated) STEL: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-
Talc	TWA: 2 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable fraction	(vacated) TWA: 2 mg/m <sup>3</sup> respirable dust <1% Crystalline silica, containing no Asbestos TWA: 20 mppcf if 1% Quartz or more, use Quartz limit	TWA: 2 mg/m <sup>3</sup>	-

Chemical name	China	Japan	Korea	Australia	Taiwan
Silica, cristobalite	-	TWA: 2 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup> TWA: 0.03 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	
Silicon dioxide	TWA: 0.7 mg/m <sup>3</sup> total dust TWA: 0.3 mg/m <sup>3</sup> respirable dust TWA: 1 mg/m <sup>3</sup> total dust TWA: 0.7 mg/m <sup>3</sup> respirable dust TWA: 0.5 mg/m <sup>3</sup> total dust TWA: 0.2 mg/m <sup>3</sup> respirable dust STEL: 2 mg/m <sup>3</sup> total dust STEL: 1.4 mg/m <sup>3</sup> total dust STEL: 1 mg/m <sup>3</sup> total dust STEL: 1.4 mg/m <sup>3</sup> respirable dust STEL: 0.6 mg/m <sup>3</sup> respirable dust STEL: 0.4 mg/m <sup>3</sup> respirable dust	TWA: 0.03 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	
Cellulose	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup> total STEL: 20 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup> total		TWA: 10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	
Talc	TWA: 3 mg/m <sup>3</sup> total dust TWA: 1 mg/m <sup>3</sup> respirable dust STEL: 6 mg/m <sup>3</sup> total dust STEL: 2 mg/m <sup>3</sup> respirable dust	TWA: 0.5 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>	TWA: 6 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>	2.5 mg/m <sup>3</sup>	TWA 2 mg/m <sup>3</sup>

(b) Appropriate engineering controls None under normal use conditions

**(c) Personal protective equipment [PPE]**

<u>Respiratory Protection</u>	Wear respiratory protection
<u>Hand protection</u>	Wear protective gloves
<u>Eye protection</u>	Wear safety glasses with side shields (or goggles)
<u>Skin protection</u>	protective clothing
<u>General hygiene considerations</u>	Do not eat, drink or smoke when using this product Wash hands thoroughly before smoking or eating, and rinse mouth after using this product

**9. Physical and Chemical Properties**

<u>(a) Physical state</u>	Clay-like blocks
<u>(b) Color</u>	light yellow brown
<u>(c) Odor</u>	Oil smell
<u>(d) pH</u>	No data available
<u>(e) Melting point / Freezing point</u>	No data available
<u>(f) Boiling point / boiling range</u>	No data available
<u>(g) Flash Point</u>	317 °C
<u>(h) Evaporation rate</u>	
<u>(i) Flammability (solid, gas)</u>	flammable solid
<u>(j) Upper/lower flammability or explosive limits</u>	
<u>Upper</u>	No data available
<u>Lower</u>	No data available
<u>(k) vapor pressure</u>	No data available
<u>(l) Vapor density</u>	No data available
<u>(m) Specific gravity</u>	1.15-1.35
<u>(n) Solubility</u>	Insoluble in water
<u>(o) Partition Coefficient (n-octanol/water)</u>	No data available
<u>(p) Autoignition temperature</u>	No data available
<u>(q) decomposition temperature</u>	No data available
<u>(r) Kinematic viscosity</u>	No data available

**10. Stability and Reactivity**

<u>(a) Reactivity</u>	Stable under recommended storage conditions
<u>(b) Chemical stability</u>	Stable below 30°C, Shelf life : according to our specification
<u>(c) Possibility of hazardous reactions</u>	No information available
<u>(d) Conditions to avoid</u>	High temperature and humidity
<u>(e) Incompatible materials</u>	Strong acids
<u>(f) Hazardous decomposition products:</u>	Incomplete combustion may produce carbon monoxide

**11. Toxicological Information****(a) Information on likely routes of exposure**

<u>Skin contact</u>	No information available
<u>Eye contact</u>	No information available
<u>Inhalation</u>	No information available
<u>Ingestion</u>	No information available

**(b) Most important symptoms/effects, acute and delayed:** No information available

**(c) Delayed and immediate effects and also chronic effects from short- and long-term exposure**

<u>Acute Toxicity</u>	No information available
<u>Skin corrosion/irritation</u>	No information available
<u>Serious eye damage/eye irritation</u>	No information available
<u>Germ cell mutagenicity</u>	No information available
<u>Carcinogenicity</u>	The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical name	International Agency for Research on Cancer (IARC)
Silica, cristobalite	Group 1
Silicon dioxide	Group 1
Cellulose	Group 1
Talc	Group 3

**International Agency for** Group 1 - Carcinogenic to Humans

<b>Research on Cancer (IARC)</b>	Group 3 - Not Classifiable as to its Carcinogenic
<b>Reproductive Toxicity</b>	No information available
<b>Specification target internal organs/systemic toxicity (single exposure)</b>	No information available
<b>Specification target internal organs/systemic toxicity (repeat exposure)</b>	No information available
<b>Aspiration hazard</b>	No information available

**(d) Numerical measures of toxicity (such as acute toxicity estimates)**

<u>Chemical name</u>	<u>Oral LD50 ;</u>	<u>Dermal LD50</u>	<u>Inhalation LC50 - 4 hour - vapor - mg/L</u>
Silicon dioxide	= 500 mg/kg ( Rat )	-	-
Cellulose	> 5 g/kg ( Rat )	> 2 g/kg ( Rabbit )	> 5800 mg/m <sup>3</sup> ( Rat ) 4 h

## 12. Ecological Information

**(a) Ecotoxicity**

<u>Chemical name</u>	<u>Algae/aquatic plants</u>	<u>Fish</u>	<u>Crustacea</u>
Talc		100: 96 h <i>Brachydanio rerio</i> g/L LC50 semi-static	

<b>(b) Mobility in soil</b>	No information available
<b>(c) Persistence and degradability</b>	No information available
<b>(d) Bioaccumulation</b>	No information available
<b>(e) Other adverse effects</b>	
<b>Ozone depletion potential (ODP):</b>	No information available
<b>Endocrine Disruptor Information</b>	No data available as mixture

## 13. Disposal Considerations

<b>Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations Contact an authorized industrial waste treatment company for off-site disposal
<b>Contaminated packaging</b>	Remove all packaging for recovery or waste disposal

## 14. Transport Information

**National regulations**

<b>UN number</b>	Not Applicable
<b>Proper Shipping Name</b>	Not Applicable
<b>Environmental hazards (Applicable/not applicable)</b>	Not Applicable

<b>Special precautions in connection with transport or conveyance</b>	Make sure to load them properly to prevent them from shock, falling or breaking
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<b>Remarks</b>	None in particular
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## 15. Regulatory information

### Japan

#### Industrial Safety and Health Act

Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9, and Law Art.56-1)

<u>Chemical name</u>	<u>Dangerous Substances</u>	<u>organic solvents</u>	<u>Harmful Substances Whose Names Are to be Indicated on the Label</u>	<u>Class 2</u>	<u>Class 1</u>	<u>Poisonous and Deleterious Substances Control Law</u>
Silica, cristobalite	>0.1% >0.1 %					
Silicon dioxide	>0.1% >0.1 %					

### Korea

No information available

### China

No information available

## 16. Other information

#### Issue date

23-Nov-2016

#### Date prepared

23-Nov-2016

#### Version

1

#### Source Information

Raw material SDS

LOLI(Chem ADVISOR) GHS classification data

#### Disclaimer

Contents are based on documents, information and data which are available at this time, but nothing is guaranteed as regards content, physical and chemical properties, hazards

The regulatory information presented here should not necessarily be considered as all-inclusive. Other local and international regulations may also apply

Also precautions are subject to ordinary handling, so please take safety measures as usage in special cases

**End of Safety Data Sheet**