# SAFETY DATA SHEET



Revision date: 15-Mar-2022

#### Revision Number 1

1. IDENTIFICATION OF TH	E MATERIAL AND SUPPLIER				
Product identifier					
Product Name	GEO40 SOL-0615Na				
Product Code(s)	00000054167				
Other means of identification					
Recommended use of the chemical	and restrictions on use				
Recommended use	Source of amorphous silica, binder, coagulant, friction development, coatings additive.				
Uses advised against	No information available.				
Details of the supplier of the safety	data sheet				
<u>Supplier</u> Ixom Operations Pty Ltd (Incorporated NZBN: 9429041465226 Address: 166 Mt Maunganui South New Zealand	t in Australia) Totara Street				
Telephone Number: +64 9 368 2700 Facimile: +64 9 368 2710					
For further information, please con	tact				
Contact Point	Product Safety Department				
Emergency telephone number					
Emergency Telephone	0 800 734 607 (ALL HOURS)				
Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.					
2. HAZARDS IDENTIFICAT	ION				
Not classified as a Dangerous Good u	inder NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.				
Based on available information, not classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.					
GHS Classification					

Label elements

Hazard statements

Other hazards which do not result in classification

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Mixture</u>

fire-fighters

Chemical name	CAS No.	Weight-%
Silica	7631-86-9	10-<30
Non hazardous component(s)	-	to 100

# 4. FIRST AID MEASURES

#### Description of first aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.			
Emergency telephone number	Poisons Information Center, New Zealand: 0800 764 766 Poisons Information Center, Australia: 13 11 26			
Inhalation	Remove to fresh air. Call a physician if symptoms occur.			
Eye contact	In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.			
Skin contact	Wash skin with soap and water. Call a physician if symptoms occur.			
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.			
Most important symptoms and effe	cts, both acute and delayed			
Symptoms	No information available.			
Indication of any immediate medical attention and special treatment needed				
Note to physicians	Treat symptomatically.			
5. FIRE FIGHTING MEASURES				
Suitable Extinguishing Media				
Suitable Extinguishing Media	Use extinguishing agent suitable for type of surrounding fire.			
Unsuitable extinguishing media	No information available.			
Specific hazards arising from the chemical				
Specific hazards arising from the chemical	Non-combustible.			
Special protective actions for fire-fighters				
Special protective equipment for	Firefighters should wear self-contained breathing apparatus and full firefighting turnout			

gear. Use personal protection equipment.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin and eyes. Avoid breathing vapors or mists. Use personal protective equipment as required. Wash thoroughly after handling.			
For emergency responders	Use personal protection recommended in Section 8.			
Environmental precautions				
Environmental precautions	See Section 12 for additional Ecological Information.			
Methods and material for containment and cleaning up				
Methods for containment	Prevent further leakage or spillage if safe to do so.			
Methods for cleaning up	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.			
Precautions to prevent secondary hazards				
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.			

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling	Avoid contact with skin and eyes. Avoid breathing vapors or mists. Wash thoroughly after handling. Stir well before use.	
Conditions for safe storage, includ	ing any incompatibilities	
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperatures between 2 °C and 43 °C. Keep from freezing. Keep container closed when not in use.	
Packaging materials	Do not store in aluminium containers. Do not store in copper or copper alloy containers.	
Incompatible materials	Cationic materials. Reactive metals. Aluminium. Copper.	

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure LimitsNo value assigned for this specific material by the New Zealand Workplace Health & Safety<br/>Authority. However, Workplace Exposure Standard(s) for constituent(s):

Silica-Amorphous (Silica gel): WES-TWA 10 mg/m<sup>3</sup>

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

#### Appropriate engineering controls

**Engineering controls** Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

#### Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Eye/face protection	Glasses.		
Hand protection	Impervious gloves.		
Skin and body protection	Protective shoes or boots. Wear suitable protective clothing. Overalls.		
Respiratory protection	If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.		
Environmental exposure controls	No information available.		

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state	
Appearance	
Color	
Odor	
Odor threshold	

Colourless Light Characteristic No information available.

Slightly Opaque, Translucent

Liquid

Property pH Melting point / freezing point Boiling point / boiling range Flash point <u>Values</u> 9.0-10.2 ca. 0°C ca. 100°C Not applicable Remarks • Method None known None known None known None known

#### 00000054167 - GEO40 SOL-0615Na

Evaporation rate Flammability (solid, gas) Flammability Limit in Air	No data available No data available	None known None known None known
Upper flammability or explosive limits	Not applicable	
Lower flammability or explosive limits	Not applicable	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	1.085-1.099	None known
Water solubility	Miscible in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	Not applicable	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Other information

# **10. STABILITY AND REACTIVITY**

Reactivity	
Reactivity	No information available.
Chemical stability	
Stability	Stable under normal conditions.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Possibility of hazardous reactions	
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	
Conditions to avoid	Extremes of temperature and direct sunlight. Frost.
Incompatible materials	
Incompatible materials	Cationic materials. Reactive metals. Aluminium. Copper.
Hazardous decomposition products	<u>L</u>

Hazardous decomposition products None known.

### **11. TOXICOLOGICAL INFORMATION**

Acute toxicity

Information on likely routes of exposure

Product Information

No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the

	chemical is mishandled and overexposure occurs are:	
Inhalation	May cause irritation.	
Eye contact	May cause irritation.	
Skin contact	May cause irritation.	
Ingestion	May cause gastrointestinal discomfort if consumed in large amounts.	
Symptoms	No information available.	

### Acute toxicity

### Numerical measures of toxicity

Refer to component information below.

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Silica	Silica = 7900 mg/kg (Rat)		> 2.2 mg/L (Rat)1 h

See section 16 for terms and abbreviations

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No informatio	on available.	
Serious eye damage/eye irritation	No information available.		
Respiratory or skin sensitization	No information available.		
Germ cell mutagenicity	No information available.		
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen. Refer to 'Chronic effects' section below.		
Chemical name		New Zealand	IARC
Silica - 7631-86-9			Group 3

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
Chronic effects:	For amorphous silica: This material has been classified by the International Agency for Research on Cancer (IARC) as a Group 3 agent. Group3 - The agent is not classifiable as to its carcinogenicity to humans.

12. ECOLOGICAL INFORMATION		
<u>Ecotoxicity</u>		
Ecotoxicity	Keep out of waterways.	

Terrestrial ecotoxicity Th	ere is no data for this product.
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Chemical name	Algae/aquatic plants	Fish	Crustacea		
Silica	EC50: =440mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =5000mg/L (96h, Brachydanio rerio)	EC50: =7600mg/L (48h, Ceriodaphnia dubia)		
	r seudokirchinenena subcapitata)	Brachydanio renoj			
Persistence and degradability					
Persistence and degradability	No information available.				
Bioaccumulative potential					
Bioaccumulation	No information available.				
<u>Mobility</u>					
Mobility in soil	No information available.				
Other adverse effects					
Other adverse effects	No information available.				
13. DISPOSAL CONSID					
Waste treatment methods					
Waste from residues/unused products	Dispose of in accordance	Dispose of in accordance with federal, state and local regulations.			
Contaminated packaging	Empty containers should t disposal.	Empty containers should be taken to an approved waste handling site for recycling or disposal			
14. TRANSPORT INFORMATION					
ROAD AND RAIL TRANSPORT	Land; NON-DANGEROUS	rous Good under NZS 5433 Trans S GOODS.	sport of Dangerous Goods on		
	,				
IATA		us Goods by the criteria of the Int			
	Association (IATA) Dange NON-DANGEROUS GOC	rous Goods Regulations for trans	port by air;		
IMDG_		us Goods by the criteria of the Int ) for transport by sea; NON-DAN			
		,			

# 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

### New Zealand

National regulationsSee section 8 for national exposure control parameters

STEL (Short Term Exposure Limit)

Skin designation

International Inventories NZIOC All the constituents of this material are listed on the New Zealand Inventory of Chemicals. **TSCA** Contact supplier for inventory compliance status. DSL/NDSL Contact supplier for inventory compliance status. **EINECS/ELINCS** Contact supplier for inventory compliance status. ENCS Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. IECSC KECL Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. PICCS AIIC Contact supplier for inventory compliance status. Legend:

NZIOC - New Zealand Inventory of Chemicals

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### **16. OTHER INFORMATION**

Supplier Safety Data Sheet 11/2021 GEO40 is a trademark.

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and Prepared By SDS Services).

**Issuing Date:** 15-Mar-2022

Reason(s) For Issue:

**Revision Note:** 

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

First Issue Primary SDS

#### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION				
TWA	TWA (time-weighted average)	STEL		
Ceiling	Maximum limit value	*		
С	Carcinogen			

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian Industrial Chemicals Introduction Scheme (AICIS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization

#### **Disclaimer**

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since lxom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Ixom representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

End of Safety Data Sheet