

Printing date 29.11.2023

Version Number 3

Revision: 29.11.2023

Trade name E.Mix PG NSG40

1 IDENTIFICATION OF HAZARDOUS CHEMICAL AND OF THE SUPPLIER

Product identifier

Trade name E.Mix PG NSG40

Safety data sheet no.: XXP016718

Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance/the mixture Grouting mortar

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Saint-Gobain Singapore Pte Ltd

2 Venture Drive, #13-18, Vision Exchange, Singapore 608526

Tel: +65 6330 8288

Fax: +65 6330 8289

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture



corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

Label elements

GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms



GHS05



GHS07

Signal word Danger

Hazard-determining components of labelling:

Cement Portland, grey

Hazard statements

H315

Causes skin irritation.

H318

Causes serious eye damage.

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H317

May cause allergic skin reaction.

H335

May cause respiratory irritation.

Precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P103

Read label before use.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER/doctor.

P321

Specific treatment (see on this label).

P362+P364

Take off contaminated clothing and wash it before reuse.

P501

Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

Other hazards

The product contains silica sand with less than 1% of fine fraction and therefore is not classified as hazardous; however, pay attention when handling and follow the indications relating to personal protective equipment.

Results of PBT and vPvB assessment

PBT: Does not contain PBT substances.

vPvB: Does not contain vPvB substances.

3 COMPOSITION AND INFORMATION OF THE INGREDIENTS OF THE HAZARDOUS CHEMICAL

Chemical characteristics: Mixtures

Description: Mixture of substances listed below with non hazardous additions.

Dangerous components:		
CAS: 65997-15-1 EINECS: 266-043-4	Cement Portland, grey ☠ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	10 – 20%
CAS: 69012-64-2 EINECS: 273-761-1	Amorphous silica (fume)	
		2 – 5%

SVHC Void

Additional information

The product contains silica sand, composed of quartz (crystalline silica) with a fine fraction below 1%.

The respirable fraction has an occupational exposure limit value (cf. section 8).

For the wording of the listed hazard phrases refer to section 16.

4 FIRST AID MEASURES

Description of first aid measures

General information

Immediately remove any clothing soiled by the product.

Remove the victim immediately from the danger area. If the patient is unwell consult a doctor and present this data sheet.

After inhalation

In case of unconsciousness, place patient stably in side position for transportation.

Supply fresh air and to be sure call for a doctor.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

After eye contact

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Rinse opened eye for several minutes under running water. Then consult doctor. Rinse liquid should be tempered (20-30°C).

After swallowing

Rinse out mouth with water. Do not induce vomiting. Seek medical attention and present this data sheet.

Information for doctor

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with added, activated carbon.

5 FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents: The product is not combustible.

Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid formation of dust.

Ensure adequate ventilation.

Environmental precautions: No special measures required.

Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 HANDLING AND STORAGE

Handling

Precautions for safe handling

Thorough dedusting.

Keep receptacles tightly sealed.

Provide suction extractors if dust is formed.

Information about fire and explosion protection: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

Protect from humidity and water.

Specific end use(s) No further relevant information available.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

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Control parameters

Ingredients with limit values that require monitoring at the workplace:

PNECs		
CAS: 65996-69-2	Slags, ferrous metal, blast furnace	
Predicted No Effect Concentration	1,000 mg/kgxdwt	(earth rating factor)
Predicted No Effect Concentration	500 mg/l	(sea water rating factor)
Predicted No Effect Concentration	500 mg/l	(fresh water rating factor)

CAS: 65997-15-1	Cement portland, grey	
PEL (Malaysia)	Long-term value: 10 mg/m ³	
PEL (USA)	Long-term value: 50 mppcf or 15* 5** mg/m ³ *total dust **respirable fraction	
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction	
TLV (USA)	Long-term value: 1* mg/m ³ E; *as respirable fraction	

CAS: 69012-64-2	Amorphous silica (fume)	
PEL (Malaysia)	Long-term value: 2* mg/m ³ wasap; *Pecahan ternafaskan	
TLV (USA)	TLV withdrawn	

Additional Occupational Exposure Limit Values for possible hazards during processing:

Total inhalable dust: 10 mg/m³

Respirable dust (< 5 µm): 4 mg/m³

Quartz respirable dust (< 5 µm) : 0,15 mg/m³

Additional information:

The applicable TRGS 900 (MAK list) was used as the basis for the preparation and/or revision of this safety data sheet.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Use a moisturising skin cream after processing the product.

Respiratory protection:

Short term filter device: Filter P2

In case of brief exposure or low pollution use respiratory filter device.

In case of intensive or longer exposure use self-contained respiratory protective device.

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Protection of hands: Protective gloves.

Material of gloves: Nitrile impregnated cotton gloves complying with the standard EN 374-1.

Eye protection: Tightly sealed goggles

Body protection: Protective work clothing.

9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Appearance:

Form: Powder

Colour: Grey

Odour: Uncharacteristic

Odour threshold: Not determined.

pH-value: Alkaline

Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Not applicable.

Flash point: Not applicable.

Flammability (solid, gas): Product is not flammable.

Ignition temperature: Not determined.

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not self-igniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Oxidising properties: Not determined.

Vapour pressure: Not applicable.

Density at 23 °C: 1.7 g/cm³ (DIN 51757)

Bulk density: Not determined.

Relative density: Not determined.

Vapour density: Not applicable.

Evaporation rate: Not applicable.

Solubility in / Miscibility with

Water: Hardens when in contact with water.

Segregation coefficient (n-octanol/water) log

Pow: Not determined.

Viscosity:

dynamic: Not applicable.

kinematic: Not applicable.

Solvent content:

EU-VOC 0.00 %

Solids content: 100.0 %

Other information: None.

10 STABILITY AND REACTIVITY

Reactivity: No further relevant information available.

Chemical stability: Stable at recommended storage conditions

Thermal decomposition/ Conditions to be avoided:

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No decomposition if used according to specifications.

Possibility of hazardous reactions

Reacts with acids

Reacts with light alloys in the presence of moisture to form hydrogen

Conditions to avoid

No further relevant information available.

Incompatible materials:

No further relevant information available.

Hazardous decomposition products:

No dangerous decomposition products known.

11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:

Components	Type	Value	Species
CAS: 65997-15-1 cement portland, grey			
Dermal	LD50	>2,000 mg/kg	(Rabbit)
CAS: 65996-69-2 Slags, ferrous metal, blast furnace			
Oral	LC50	>2,000 mg/kg	(Rat)
Dermal	LC50	>4,000 mg/kg	(Rat)
Inhalative	LC50/4	>5 mg/l	(Rat)

Primary irritant effect:

Skin corrosion/irritation Irritant to skin and mucous membranes.

Serious eye damage/irritation Strong irritant with the danger of severe eye injury.

Respiratory or skin sensitisation Sensitisation possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Irritant

12 ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: No further relevant information available.

Type of test	Effective concentration	Method	Assessment
CAS: 65996-69-2 Slags, ferrous metal, blast furnace			
LC50/96	>100 mg/l	(Leuciscus idus (Orfe))	
LC0/96h	>100 mg/l	(Leuciscus idus (Orfe))	
EC50/72h	>90,000 mg/l	(Algae)	
NOEC (72h)	50-100 mg/l	(Algae)	
NOEC (21d)	1,563 mg/l	(Daphnia magna)	
EC 0/48h	>100 mg/l	(Daphnia magna)	

Persistence and degradability No further relevant information available.

Behaviour in environmental systems:

Bio accumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Ecotoxicological effects:

Remark:

The product contains substances which cause severe clouding in water.

The product contains substances which cause a local pH change and thus have a detrimental effect on fish and bacteria.

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Additional ecological information:

General notes: Do not allow product to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Does not contain PBT substances.

vPvB: Does not contain vPvB substances.

Other adverse effects No further relevant information available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation

Product hardens after adding water after 5 to 6 hours and can then be disposed of as building rubbish. Possible waste code 17 09 04.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Recommended cleaning agent: Thoroughly shake out sacks.

14 TRANSPORT INFORMATION

UN-Number ADR, ADN, IMDG, IATA	Void
UN proper shipping name ADR, ADN, IMDG, IATA	Void
Transport hazard class(es) ADR, ADN, IMDG, IATA Class	Void
Packing group ADR, IMDG, IATA	Void
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
Transport/Additional Information:	Not dangerous according to the above specifications.
UN "Model Regulation":	Void

15 REGULATORY INFORMATION

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

GHS label elements

cf. section 2

The product is classified and labelled according to the Globally Harmonised System (GHS).

Hazard pictograms



GHS05 GHS07

Signal word Danger

Hazard-determining components of labelling:

Cement Portland, grey

Hazard statements

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H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause allergic skin reaction.
H335	May cause respiratory irritation.
Precautionary statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: R&D Department

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Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern (REACH regulation)

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.

According to Annex II of the REACH regulation, the modified sections in this version of the Safety Data Sheet in comparison with the previous one are marked with asterisks.