

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Monoset® RX (Liquid)

Version 1.0

SDS Number: 100000030803

Revision Date: 2020/02/19

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Monoset® RX (Liquid)  
Product code : 100000030803  
Type of product : Aqueous solution  
Chemical nature :

#### Recommended use of the chemical and restrictions on use

Product use : Additive for cementous products

#### Manufacturer or supplier's details

Company : Ronacrete (Guangzhou) Construction Products Ltd.  
No 60, Lixinsha Dong Lu,  
Wanqingsha, Nansha, 511462 Guangzhou,  
Guangdong P.R.China

Telephone : www.ronacrete.com.cn  
: (86) 20 8494 1000  
Emergency telephone number : -  
Telefax : (86) 020 8494 2000  
E-mail address : -  
Emergency telephone number : -

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

<b>Appearance</b>	: Aqueous solution
<b>Colour</b>	: milky
<b>Odour</b>	: not significant

May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

#### GHS Classification

Skin sensitisation : Category 1

Short-term (acute) aquatic hazard : Category 3

Long-term (chronic) aquatic hazard : Category 3

#### GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Physical and chemical hazards

Not classified based on available information.

### Health hazards

May cause an allergic skin reaction.

### Environmental hazards

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

Chemical name	CAS-No.	Concentration (%)
bronopol (INN)	52-51-7	>= 0.0025 - < 0.025
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (C/M)	55965-84-9	>= 0.0025 - < 0.025

## 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.  
If inhaled : Move to fresh air.  
In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Most important symptoms and effects, both acute and delayed : No known significant effects or hazards.  
See Section 11 for more detailed information on health effects and symptoms.

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Notes to physician : May cause an allergic skin reaction.  
: Treat symptomatically.

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### 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Hazardous combustion products : No hazardous combustion products are known

Specific extinguishing methods : Standard procedure for chemical fires.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : For personal protection see section 8.

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

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### 7. HANDLING AND STORAGE

#### Handling

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.  
No special handling advice required.  
Follow standard hygiene measures when handling chemical products

Avoidance of contact : No data available

#### Storage

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Store in accordance with local regulations.

Materials to avoid : No special restrictions on storage with other products.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.  
Not applicable

#### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

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	ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Hygiene measures	: When using do not eat or drink. When using do not smoke.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Aqueous solution
Colour	: milky
Odour	: not significant
Odour Threshold	: No data available
pH	: 7 - 8, (23 °C (73 °F))
Melting point/range / Freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: 23 hPa (17 mmHg)
Relative vapour density	: No data available
Density	: ca. 1.01 g/cm <sup>3</sup> (23 °C (73 °F) ())
Bulk density	: Not applicable
Solubility(ies)	
Solubility in other solvents	: Not applicable
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available

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Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: 50 - 200 mPa.s (23 °C)
Viscosity, kinematic	: > 20.4 mm <sup>2</sup> /s (40 °C)
Explosive properties	: No data available
Molecular weight	: No data available

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### 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: No hazards to be specially mentioned.
Conditions to avoid	: No data available
Incompatible materials	: No data available
No decomposition if stored and applied as directed.	

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### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

No data available

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### **bronopol (INN):**

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

##### **mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (C(M):**

M-Factor (Acute aquatic toxicity) : 100

M-Factor (Chronic aquatic toxicity) : 100

#### **Persistence and degradability**

No data available

#### **Bioaccumulative potential**

No data available

#### **Mobility in soil**

No data available

#### **Other adverse effects**

##### Product:

Additional ecological information : There is no data available for this product.

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### 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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### 14. TRANSPORT INFORMATION

#### **International Regulations**

##### **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

#### **National Regulations**

#### **Special precautions for user**

Not applicable

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### 15. REGULATORY INFORMATION

#### **National regulatory information**

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### The components of this product are reported in the following inventories:

IECSC : Not in compliance with the inventory

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## 16. OTHER INFORMATION

Date format : yyyy/mm/dd

### Disclaimer

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

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## Monoset® RX (Powder)

Version 1.0

SDS Number: 100000030802

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Monoset® RX (Powder)  
Product code : 100000030802  
Type of product : powder  
Chemical nature :

#### Recommended use of the chemical and restrictions on use

Product use : Repairing mortar

#### Manufacturer or supplier's details

Company : Ronacrete (Guangzhou) Construction Products Ltd.  
No 60, Lixinsha Dong Lu,  
Wanqingsha, Nansha, 511462 Guangzhou,  
Guangdong P.R.China

Telephone : www.ronacrete.com.cn  
: (86) 20 8494 1000  
Emergency telephone number : -  
Telefax : (86) 020 8494 2000  
E-mail address : -  
Emergency telephone number : -

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance : powder  
Colour : grey  
Odour : odourless

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation.

#### GHS Classification

Skin corrosion/irritation : Category 2  
Serious eye damage/eye irritation : Category 1  
Skin sensitisation : Category 1  
Specific target organ toxicity - single exposure : Category 3 (respiratory tract irritation)

#### GHS label elements

Hazard pictograms :



Signal word : Danger



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- Hazard statements** : H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.
- Precautionary statements** : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Physical and chemical hazards

Not classified based on available information.

### Health hazards

Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation.

### Environmental hazards

Not classified based on available information.

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

Chemical name	CAS-No.	Concentration (%)
Quartz (SiO <sub>2</sub> )	14808-60-7	>= 50 - < 70
Cement, portland, chemicals	65997-15-1	>= 20 - < 30
calcium sulfate	7778-18-9	>= 1 - < 10

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### 4. FIRST AID MEASURES

General advice	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	: Move to fresh air. Consult a physician after significant exposure.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	: Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.
Most important symptoms and effects, both acute and delayed	: irritant effects sensitising effects Cough Respiratory disorder Allergic reactions Excessive lachrymation Dermatitis See Section 11 for more detailed information on health effects and symptoms. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation.
Notes to physician	: Treat symptomatically.

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### 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous combustion products	: No hazardous combustion products are known
Specific extinguishing methods	: Standard procedure for chemical fires.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

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### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Avoid breathing dust. Deny access to unprotected persons.
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- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.  
Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

#### Handling

Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling : Do not breathe vapours/dust.  
Avoid exceeding the given occupational exposure limits (see section 8).  
Do not get in eyes, on skin, or on clothing.  
For personal protection see section 8.  
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Smoking, eating and drinking should be prohibited in the application area.  
Follow standard hygiene measures when handling chemical products

Avoidance of contact : No data available

#### Storage

Conditions for safe storage : Store in original container.  
Keep in a well-ventilated place.  
Observe label precautions.  
Store in accordance with local regulations.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Quartz (SiO <sub>2</sub> )	14808-60-7	PC-TWA (Total dust)	0.5 mg/m <sup>3</sup>	GBZ 2.1-2007
		Further information: G1 - Carcinogenic to humans, crystalline		
		PC-TWA (Respirable dust)	0.2 mg/m <sup>3</sup>	GBZ 2.1-2007
		Further information: G1 - Carcinogenic to humans, crystalline		
		PC-TWA (Total dust)	0.7 mg/m <sup>3</sup>	GBZ 2.1-2007
		Further information: G1 - Carcinogenic to humans, crystalline		
		PC-TWA (Total dust)	1 mg/m <sup>3</sup>	GBZ 2.1-2007
		Further information: G1 - Carcinogenic to humans, crystalline		

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		PC-TWA (Respirable dust)	0.7 mg/m <sup>3</sup>	GBZ 2.1- 2007
	Further information: G1 - Carcinogenic to humans, crystalline			
		TWA (Res- pirable par- ticulate mat- ter)	0.025 mg/m <sup>3</sup>	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	0.025 mg/m <sup>3</sup> (Silica)	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	0.025 mg/m <sup>3</sup>	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	0.025 mg/m <sup>3</sup> (Silica)	ACGIH
Cement, portland, chemicals	65997-15-1	TWA (Res- pirable par- ticulate mat- ter)	1 mg/m <sup>3</sup>	ACGIH
calcium sulfate	7778-18-9	TWA (Inhal- able particu- late matter)	10 mg/m <sup>3</sup> (Calcium)	ACGIH

Not applicable

### Personal protective equipment

- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
- Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	: powder
Colour	: grey
Odour	: odourless
Odour Threshold	: No data available
pH	: No data available
Melting point/range / Freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: ca. 2,190 kg/m <sup>3</sup> (23 °C (73 °F) ( ))
Bulk density	: ca. 1,810 kg/m <sup>3</sup>
Solubility(ies)	
Water solubility	: Not applicable
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: No data available
Molecular weight	: No data available

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### 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: Stable under recommended storage conditions.
Conditions to avoid	: No data available
Incompatible materials	: No data available
No decomposition if stored and applied as directed.	

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### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Components:

##### calcium sulfate:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

May cause respiratory irritation.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

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### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

No data available

#### Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### Other adverse effects

#### Product:

Additional ecological information : There is no data available for this product.

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### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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### 14. TRANSPORT INFORMATION

#### International Regulations

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

#### Special precautions for user

Not applicable

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### 15. REGULATORY INFORMATION

#### National regulatory information

Law on the Prevention and Control of Occupational Diseases

#### The components of this product are reported in the following inventories:

IECSC : On the inventory, or in compliance with the inventory

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### 16. OTHER INFORMATION

Date format : yyyy/mm/dd

#### Disclaimer

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.