

Product RENOVIVE GLASSWASH DETERGENT SANITISER  
 Revision date 25 May 2021  
 Revision 3



## Safety Data Sheet (SDS)

according to Regulation (EC) No. 1907/2006

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

<b>Product name</b>	<b>RENOVIVE GLASSWASH DETERGENT SANITISER</b>
<b>Product no.</b>	<b>GRARENO</b>
<b>Other means of identification</b>	No information available.

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

<b>Identified uses</b>	Cleaning agent. For professional use only.
<b>Uses advised against</b>	Any other purpose.

#### 1.3 Details of the supplier of the safety data sheet

<b>Supplier</b>	Kitchenmaster NI Ltd 11 Comber Road Belfast BT8 8AN United Kingdom Tel: 028 90814777 sales@kitchenmaster-ni.com
<b>Contact person</b>	

#### 1.4 Emergency telephone number

<b>Emergency telephone</b>	Emergency Telephone Number: 028 9081 4777 08:30 – 17:00 Monday to Thursday 08:30 – 16:30 Friday
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### Section 2: Hazards identification

#### 2.1 Classification of the substance or mixture

<b>Classification (EC 1272/2008)</b>	
Physical and chemical hazards	Me. Corr 1 - H290
Human health	Skin Corr. 1B - H314
Environment	Aquatic Chronic 3 - H412

#### 2.2 Label elements

<b>Contains</b>	Disodium metasilicate pentahydrate
<b>Detergent labeling</b>	<5% chlorine-based bleaching agents <5% Phosphates

**Label in accordance with (EC) no. 1272/2008**



<b>Signal word</b>	Danger
<b>Hazard statements</b>	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long lasting effects.
<b>Precautionary statements</b>	<b>Prevention</b>

P260 Do not breathe dust/fume/ gas/mist/vapours/spray.

P280 Wear protective gloves/ protective clothing/eye protection/face protection.

#### Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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 or doctor/physician.

## 2.3 Other hazards

None known.

## Section 3: Composition/information on ingredients

### 3.1 Substance

Not applicable.

### 3.2 Mixtures

Name	Product identifier	Regulation (EC) No 1272/2008	%
Disodium metasilicate pentahydrate	CAS-No.: 10213-79-3 EC No.: 229-912-9 REACH Reg No.: 01-2119449811-37-XXXX	Me. Corr 1 - H290, Me. Corr 1 - H290, Skin Corr. 1B - H314, STOT SE 3 - H335	5-10%
troclosene sodium, dihydrate	CAS-No.: 51580-86-0 EC No.: 220-767-7	Acute Tox 4 - H302, Eye Irrit.2A - H319, STOT SE 3 - H335, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	1-5%

The full text for all hazard statements are displayed in section 16.

#### Composition comments

The data shown are in accordance with the latest EC Directives.

troclosene sodium, dihydrate : Specific Concentration Limits = EUH031: C >= 10 %; STOT SE 3; H335: C >= 10 %.

## Section 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.

#### Inhalation

Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

#### Ingestion

If this product is ingested, remove victim immediately from source of exposure. Rinse mouth thoroughly. Do not induce vomiting. Provide fresh air, warmth and rest. Get medical attention. Never give anything by mouth to an unconscious person.

#### Skin contact

Remove victim immediately from source of exposure. Remove contaminated clothing, shoes and jewelry and wash before reuse. Wash the skin immediately with water. Obtain medical attention if irritation persists or if blistering occurs.

#### Eye contact

Do not rub eye. If this product contacts the eyes, gently flush eyes with water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if present and easy to do so. Avoid contaminating unaffected eye. Seek medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

#### General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

#### Inhalation

Inhalation of mist or vapor may cause respiratory tract irritation. High dust levels may irritate the respiratory system.

#### Ingestion

May cause stomach pain or vomiting.

#### Skin contact

Skin contact may produce skin irritation and chemical burns. Dust or powder may cause mechanical irritation.

#### Eye contact

Causes serious eye damage. Extreme irritation of eyes and mucous membranes, including burning and tearing. Dust can cause mechanical irritation.

**4.3 Indication of any immediate medical attention and special treatment needed**

Notes to the physician	Treat symptomatically.
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**Section 5: Firefighting measures****5.1 Extinguishing media**

Extinguishing media	Extinguish with foam, carbon dioxide or water fog. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Do not use ABC extinguishers containing nitrogen, due to risk of violent chemical reaction. Do not use water jet.

**5.2 Special hazards arising from the substance or mixture**

Hazardous combustion products	During fire, toxic gases (CO, CO <sub>2</sub> ) are formed. Decomposition products may include: Chlorine.
Unusual fire & explosion hazards	Dust clouds may be explosive. A risk of explosion and / or of toxic gas formation exists with the following substances: Ammonia, urea, ammonium compounds, bases, and acids. Aqueous solutions will react with aluminium, zinc, tin, copper and their alloys evolving hydrogen gas which can form an explosive mixture with air.
Specific hazards	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

**5.3 Advice for firefighters**

Special fire fighting procedures	If possible, fight fire from protected position. Avoid breathing fire vapours. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water if safe to do so. Do not release runoff from fire to drains or watercourses.
Protective equipment for firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

**Section 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel	Wear protective clothing as described in Section 8 of this safety data sheet. Eliminate all sources of ignition. In case of inadequate ventilation, use respiratory protection. Do not touch or walk through spilled material. If necessary evacuate surrounding areas. Avoid raising powdered materials into airborne dust. Avoid inhalation of dust or vapours and contact with skin and eyes. Ensure adequate ventilation.
For emergency responders	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

**6.2 Environmental precautions**

Environmental precautions	Do not discharge onto the ground or into water courses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.
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**6.3 Methods and material for containment and cleaning up**

Spill clean up methods	Stop leak if possible without risk. Eliminate all sources of ignition. Ventilate and evacuate the area. DO NOT touch spilled material! Take care not to raise dust. When dealing with a spillage, wear necessary protective equipment. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Wash thoroughly after dealing with a spillage.
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**6.4 Reference to other sections**

Reference to other sections	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.
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## Section 7: Handling and storage

### 7.1 Precautions for safe handling

#### Handling

Read and follow manufacturer's recommendations. Use proper personal protection when handling (refer to Section 8). Do not handle broken packages without protective equipment. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Wash thoroughly after handling. Avoid generation of dust clouds. Take precautionary measures against static discharges when there is a risk of dust explosion. Dust can combine with air to form an explosive mixture.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage precautions

Keep upright, locked up and out of reach of children. Keep the product in its original container. Store in cool dry areas away from direct sunlight or sources of ignition. Keep away from acids. Store separately from incompatible substances - see section ten.

#### Storage class

Corrosive storage.

### 7.3 Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

#### Usage description

Use only according to directions. Replace and tighten cap after use.

## Section 8: Exposure controls/Personal protection

### 8.1 Control parameters

#### Ingredient comments

Ireland, Occupational Exposure Limits 2021.  
WEL - Workplace Exposure Limits - EH40/2005 Workplace exposure limits.  
No exposure limits noted for ingredient(s).

### 8.2 Exposure Controls

#### Protective equipment



#### Engineering measures Respiratory equipment

Provide adequate ventilation, including appropriate local extraction.  
If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/145/143/149. The specific respirator selected must be based on contamination levels found in the work place. Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143 should be used, and suitable respirator cartridges as a backup to engineering controls. Use respiratory equipment with particle filter - Type P3. Consult manufacturer for specific advice.

#### Hand protection

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. (EU Directive 89/686/EEC). Gloves must be inspected prior to use. Suggested material: Butyl-rubber. Breakthrough time: >480 minutes. Minimum layer thickness: 0.33 mm. Consult manufacturer for advice.  
Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

#### Eye protection

Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

#### Other protection

Body protection must be chosen in consultation with a specialist, depending on activity and possible exposure, e.g. apron, protective boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust). The equipment must be cleaned thoroughly after each use. The selected clothing must satisfy the European norm standard EN 943.

#### Hygiene measures

Observe normal hygiene standards. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke. Wash hands after use.

**Process conditions**

Ensure that eye flushing systems and safety showers are located close by in the work place.

**Section 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>Appearance</b>	Powder.
<b>Colour</b>	White
<b>Odour</b>	Slight chlorine odour
<b>Odour threshold - lower</b>	No information available as testing has not been completed.
<b>Odour threshold - upper</b>	No information available as testing has not been completed.
<b>pH-Value, Conc. Solution</b>	Not applicable as the product is a diluted solution.
<b>pH-Value, Diluted solution</b>	11 -12 (2% solution)
<b>Melting point</b>	No information available as testing has not been completed.
<b>Initial boiling point and boiling range</b>	No information available as testing has not been completed.
<b>Flash point</b>	Non-Flammable
<b>Evaporation rate</b>	No information available as testing has not been completed.
<b>Flammability state</b>	Not applicable as the product is not flammable.
<b>Flammability limit - lower(%)</b>	Not applicable as the product is not flammable.
<b>Flammability limit - upper(%)</b>	Not applicable as the product is not flammable.
<b>Vapour pressure</b>	No information available as testing has not been completed.
<b>Vapour density (air=1)</b>	No information available as testing has not been completed.
<b>Relative density</b>	No information available as testing has not been completed.
<b>Bulk density</b>	No information available as testing has not been completed.
<b>Solubility</b>	Soluble in water.
<b>Decomposition temperature</b>	No information available as testing has not been completed.
<b>Partition coefficient; n- Octanol/Water</b>	Not applicable as the product is a mixture.
<b>Auto ignition temperature (°C)</b>	Not applicable as the product is not flammable.
<b>Viscosity</b>	Not applicable as the product is a solid.
<b>Explosive properties</b>	Danger of dust explosion.
<b>Oxidising properties</b>	The product does not meet the criteria to be classified as oxidising.

**9.2 Other information**

<b>Molecular weight</b>	Not applicable as the product is a mixture.
<b>Volatile organic compound</b>	No information available as testing has not been completed.
<b>Other information</b>	None noted.

**Section 10: Stability and reactivity****10.1 Reactivity**

<b>Reactivity</b>	Reactions may occur with strong oxidizing agents and acids. May be corrosive to metals.
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Aqueous solutions will react with aluminium, zinc, tin, copper and their alloys evolving hydrogen gas which can form an explosive mixture with air. Avoid generation of dust. Dusts at sufficient concentrations can form explosive mixtures with air.

## 10.2 Chemical stability

**Stability** Stable under normal temperature conditions and recommended use.

## 10.3 Possibility of hazardous reactions

**Hazardous reactions** For information on hazardous reaction see section 10.1.  
**Hazardous polymerisation** Unknown  
**Polymerisation description** Unknown.

## 10.4 Conditions to Avoid

**Conditions to avoid** Heat, sparks, open flames, temperature extremes and direct sunlight. Avoid storing in large quantities or for long periods of time.

## 10.5 Incompatible materials

**Materials to avoid** Do not mix with other chemicals unless listed on directions. Keep away from ammonia, urea, ammonium compounds, bases, acids, and oxidisers. Aqueous solutions will react with aluminium, zinc, tin, copper and their alloys evolving hydrogen gas which can form an explosive mixture with air. Exothermic reaction if in contact with acids.

## 10.6 Hazardous decomposition products

**Hazardous decomposition products** Decomposition products may include: Chlorine, Nitrogen Trichloride, Nitrogen Oxide, Hydrogen Chloride, and Carbon Monoxide.

# Section 11: Toxicological information

## 11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

<b>Toxicological information</b>	No toxicological information for the overall finished product.
<b>Acute toxicity (Oral LD50)</b>	No information available as testing has not been completed.
<b>Acute toxicity (Dermal LD50)</b>	No information available as testing has not been completed.
<b>Acute toxicity (Inhalation LD50)</b>	No information available as testing has not been completed.
<b>Serious eye damage/irritation</b>	Causes severe eye damage.
<b>Skin corrosion/irritation</b>	The product is classified as a skin corrosion/irritation hazard.
<b>Respiratory sensitisation</b>	The product is not classified as a respiratory hazard.
<b>Skin sensitisation</b>	The product is not classified as a skin sensitisation hazard.
<b>Germ cell mutagenicity</b>	The product is not classified as a mutagen.
<b>Carcinogenicity</b>	The product is not classified as a carcinogen hazard.
<b>Specific target organ toxicity - Single exposure:</b>	
<b>STOT - Single exposure</b>	The product is not classified as a single exposure specific target organ toxin.
<b>Specific target organ toxicity - Repeated exposure:</b>	
<b>STOT - Repeated exposure</b>	The product is not classified as a repeat exposure specific target organ toxin.
<b>Inhalation</b>	Inhalation of mist or vapor may cause respiratory tract irritation. High dust levels may irritate the respiratory system.
<b>Ingestion</b>	May cause stomach pain or vomiting.
<b>Skin contact</b>	Skin contact may produce skin irritation and chemical burns. Dust or powder may cause mechanical irritation.
<b>Eye contact</b>	Causes serious eye damage. Extreme irritation of eyes and mucous membranes, including burning and tearing. Dust can cause mechanical irritation.
<b>Waste management</b>	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
<b>Routes of entry</b>	Eyes, skin, ingestion or inhalation.

<b>Target organs</b>	Eyes, skin, digestive system, respiratory system.
<b>Aspiration hazards:</b>	The product is not classified as an aspiration hazard.
<b>Reproductive toxicity:</b>	The product is not classified as a reproductive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
Disodium metasilicate pentahydrate	1152.00mg/kg Rat	>5000.00mg/kg Rat	>2.06g/m3 Rat 4 Hours
troclosene sodium, dihydrate	500.00mg/kg Rat	>5000.00mg/kg Rabbit	

**11.2 Information on other hazards**

<b>Information on other hazards</b>	None known.
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**Section 12: Ecological information****12.1 Toxicity**

<b>Acute toxicity - Fish</b>	No information available as testing has not been completed.
<b>Acute toxicity - Aquatic invertebrates</b>	No information available as testing has not been completed.
<b>Acute toxicity - Aquatic plants</b>	No information available as testing has not been completed.
<b>Acute toxicity - Microorganisms</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Fish</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Aquatic invertebrates</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Aquatic plants</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Microorganisms</b>	No information available as testing has not been completed.
<b>Ecotoxicity</b>	Harmful to aquatic life with long lasting effects.
<b>Eco toxicological information</b>	The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

**12.2 Persistence and degradability**

<b>Degradability</b>	The degradability of the product has not been stated.
<b>Biological oxygen demand</b>	No information available as testing has not been completed.
<b>Chemical oxygen demand</b>	No information available as testing has not been completed.

**12.3 Bioaccumulative potential**

<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
<b>Bioaccumulation factor</b>	No information available as testing has not been completed.
<b>Partition coefficient; n-Octanol/Water</b>	Not applicable as the product is a mixture.

**12.4 Mobility in soil**

<b>Mobility</b>	Soluble in water.
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**12.5 Results of PBT and vPvB assessment**

<b>Results of PBT and vPvB assessment</b>	None of the raw materials listed are classified as PBT / vPvB substances.
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**12.6 Endocrine disrupting properties**

<b>Endocrine disrupting properties</b>	The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%.
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**12.7 Other adverse effects**

<b>Other adverse effects</b>	None known.
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Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
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Disodium metasilicate pentahydrate	LC50 96 Hours 210.00mg/l Brachydanio rerio (Zebra Fish)	EC50 48 Hours 1700.00mg/l Daphnia magna	EC50 72 Hours 207.00mg/l Scenedesmus Subspicatus
troclosene sodium, dihydrate	LC50 96 Hours 0.25mg/l Onchorhynchus mykiss (Rainbow Trout)	EC50 48 Hours 0.28mg/l Daphnia magna	

### Section 13: Disposal considerations

#### Waste management

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

#### 13.1 Waste treatment methods

##### Disposal methods

Dispose of waste and residues in accordance with local authority requirements. For waste disposal, use a licensed industrial waste disposal agent.

### Section 14: Transport information

#### 14.1 UN number or ID number

UN no. (ADR)	UN3253
UN no. (IMDG)	UN3253
UN no. (IATA)	UN3253

#### 14.2 UN proper shipping name

ADR proper shipping name	DISODIUM TRIOXOSILICATE
IMDG proper shipping name	DISODIUM TRIOXOSILICATE
IATA proper shipping name	DISODIUM TRIOXOSILICATE

#### 14.3 Transport hazard class(es)

ADR class	8
IMDG class	8
IATA class	8

##### Transport labels



#### 14.4 Packing group

ADR/RID/ADN packing group	III
IMDG packing group	III
IATA packing group	III

#### 14.5 Environmental hazards

ADR	No
IMDG	No
IATA	No

#### 14.6 Special precautions for user

EMS	F-A, S-B
Emergency action code	A803
Hazard no. (ADR)	80
Tunnel restriction code	(E)

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

### Section 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture



**EU legislation**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019.

**Approved code of practice**

Workplace Exposure Limits Guidance Note EH40/2005.

2021 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)

**15.2 Chemical safety assessment****Chemical safety assessment**

No chemical safety assessment has been carried out.

**Section 16: Other information****General information****Revision comments**

This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.

This is a third issue. [1]Information updated. [2]Information updated. [3]Information updated. [5]Information updated. [6]Information updated. [7]Information updated. [8]Information updated. [9]Information updated. [10]Information updated. [11]Information updated. [14]Information updated. [15]Information updated. [12]Information updated.

**Revision date**

25 May 2021

**Supersedes date**

07 August 2018

**Revision**

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**Safety data sheet status**

Approved.

**Hazard statements in full****H290**

May be corrosive to metals.

**H314**

Causes severe skin burns and eye damage.

**H335**

May cause respiratory irritation.

**H302**

Harmful if swallowed.

**H319**

Causes serious eye irritation.

**H400**

Very toxic to aquatic life.

**H410**

Very toxic to aquatic life with long lasting effects.

**H412**

Harmful to aquatic life with long lasting effects.

**Disclaimer**

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.