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## Foodmax Silicon #23 - Foodgrade Silicon Aerosol 262501401

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### **SECTION 1: IDENTIFICATION**

1.1 Product identifier: Foodmax Silicon #23 - Foodgrade Silicon Aerosol

262501401

Other means of identification:

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

Relevant uses: Lubricant

Uses advised against: All uses not specified in this section or in section 7.3

### 1.3 Details of manufacturer or importer:

Matrix Specialty Lubricants

Typograaf 16

6921 VB Duiven - The Netherlands

Phone: +31316740850 lab@matrix-lubricants.com https://www.matrix-lubricants.com Australian contact: Hales Australia 45 Woodlands Drive

Braeside VIC 3195 Australia Tel: 03 8587 1600

info@hales.com.au

1.4 Emergency phone number: Poisons Information Centre 13 11 26

## **SECTION 2: HAZARD(S) IDENTIFICATION**

### 2.1 Classification of the hazardous chemical:

### WHS:

Classification of this product has been carried out in accordance with Model Work Health and Safety Regulations(Hazardous Chemicals) Amendment 2022

Aerosol 1: Pressurised container: May burst if heated., H229

Aerosol 1: Aerosols, Category 1, H222

### Label elements, including precautionary statements: 2.2

### WHS:

### Danger



### Hazard statements:

H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

## Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211: Do not spray on an open flame or other ignition source.

P251: Do not pierce or burn, even after use.

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

P501: Dispose of contents and / or their container according to the separated collection system used in your municipality.

### Supplementary information:

AUH066: Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards which do not result in classification:





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### SECTION 2: HAZARD(S) IDENTIFICATION (continued)

Non-applicable

### SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS, IN ACCORDANCE WITH SCHEDULE 8

### 3.1 Substances:

Non-applicable

### 3.2 Mixtures:

Chemical description: Mixture of substances

### Components:

In accordance with Schedule 8 (WHS Regulations), the product contains:

	Identification	Chemical name	Concentration
CAS:	74-98-6	Propane	30 - <60 %
CAS:	106-97-8	Butane	10 - <30 %
CAS:	75-28-5	Isobutane	10 - <30 %
CAS:	109-66-0	pentane	10 - <30 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

### **SECTION 4: FIRST AID MEASURES**

### 4.1 Description of necessary first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

### By inhalation:

This product is not classified as hazardous through inhalation,however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

### By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

### By eye contact:

This product does not contain substances classified as hazardous for eye contact. Rinse eyes thoroughly for at least 15 minutes with lukewarm water, ensuring that the person affected does not rub or close their eyes.

### By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

### 4.2 Symptoms caused by exposure:

Acute and delayed effects are indicated in sections 2 and 11.

### 4.3 Medical attention and special treatment:

Non-applicable

### **SECTION 5: FIREFIGHTING MEASURES**

### 5.1 Suitable extinguishing equipment:

Suitable extinguishing media:

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### SECTION 5: FIREFIGHTING MEASURES (continued)

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>).

### Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

### 5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

### 5.3 Special protective equipment and precautions for fire fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

### 6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

### 6.4 Reference to other sections:

See sections 8 and 13.

### **SECTION 7: HANDLING AND STORAGE**

### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

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### SECTION 7: HANDLING AND STORAGE (continued)

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1 **Exposure control measures:**

Substances whose occupational exposure limits have to be monitored in the workplace:

Workplace Exposure Standards for Airborne Contaminants 01/10/2022:

Identification	Occupational exposure limits		
Butane	TWA	800 ppm	1900 mg/m³
CAS: 106-97-8	STEL		
pentane	TWA	600 ppm	1770 mg/m³
CAS: 109-66-0	STEL	750 ppm	2210 mg/m³

### 8.2 **Engineering controls:**

A.- Individual protection measures, for example personal protective equipment (PPE)

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand	NON-disposable chemical protective gloves	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.
protection		

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

### D.- Eye and face protection

Pictogram	PPE	Remarks
Mandatory face protection	Face shield	Clean daily and disinfect periodically according to the manufacturer's instructions.  Use if there is a risk of splashing.

E.- Bodily protection



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### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION (continued)

Pictogram	PPE	Remarks
Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	Replace hoots at any sign of deterioration

### F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
+	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	<b>→</b>	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

When frequently used or in poorly ventilated areas we suggest face mask with filter A2/P3. With Intensive long-term exposure in poorly ventilated areas an independent respirator may be necessary.

### Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES** 9.1 Information on basic physical and chemical properties: For complete information see the product datasheet. Appearance: Physical state at 20 °C: Aerosol Oily Appearance: White Color: Odor: Characteristic Odour threshold: Non-applicable \* Volatility: Boiling point at atmospheric pressure: Non-applicable \* 350000 Pa Vapour pressure at 20 °C: Vapour pressure at 50 °C: Non-applicable \* Evaporation rate at 20 °C: Non-applicable \* Product description: Density at 20 °C: 600 kg/m<sup>3</sup> Relative density at 20 °C: Non-applicable \* Dynamic viscosity at 20 °C: Non-applicable \* Kinematic viscosity at 20 °C: Non-applicable \* Kinematic viscosity at 40 °C: Non-applicable \* Concentration: Non-applicable \* pH: Non-applicable \* Vapour density at 20 °C: Non-applicable \* \*Not relevant due to the nature of the product, not providing information property of its hazards.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Partition coefficient n-octanol/water 20 °C: Non-applicable \* Non-applicable \* Solubility in water at 20 °C: Solubility properties: Non-applicable \* Decomposition temperature: Non-applicable \* Melting point/freezing point: Non-applicable \* Recipient pressure: Non-applicable \*

Flammability:

Flash Point: Non-applicable Flammability (solid, gas): Non-applicable \* Autoignition temperature: 285 °C (Propellant) Lower flammability limit: 1.4 % Volume Upper flammability limit: 10.9 % Volume

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Non-applicable \* Explosive properties: Oxidising properties: Non-applicable \* Corrosive to metals: Non-applicable \* Heat of combustion: 39.64 kJ/g Aerosols-total percentage (by mass) of flammable Non-applicable \*

components:

Other safety characteristics:

Surface tension at 20 °C: Non-applicable \* Refraction index: Non-applicable \* \*Not relevant due to the nature of the product, not providing information property of its hazards.

## **SECTION 10: STABILITY AND REACTIVITY**

### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

## 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

### 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

### Hazardous decomposition products:

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### SECTION 10: STABILITY AND REACTIVITY (continued)

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for skin contact. For more information see section 3.
  - Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
    - IARC: Non-applicable
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:





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### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

### Other information:

Non-applicable

### Specific toxicology information on the substances:

Identification	Acu	Genus	
Butane	LD50 oral	Non-applicable	
CAS: 106-97-8	LD50 dermal	Non-applicable	
	LC50 inhalation	658 mg/L (4 h)	Rat

## **SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

### 12.1 Ecotoxicity:

### Acute toxicity:

Identification		Concentration	Species	Genus
pentane	LC50	Non-applicable		
CAS: 109-66-0	EC50	9.74 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		

### 12.2 Persistence and degradability:

### Substance-specific information:

Identification	Degradability		Biodegradab	oility
pentane	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 109-66-0	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	96 %

### 12.3 Bioaccumulative potential:

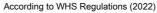
### Substance-specific information:

Identification	Bioaccumulation potential		
Propane	BCF	13	
CAS: 74-98-6	Pow Log	2.86	
	Potential	Low	
Butane	BCF	33	
CAS: 106-97-8	Pow Log	2.89	
	Potential	Moderate	
Isobutane	BCF	27	
CAS: 75-28-5	Pow Log	2.76	
	Potential	Low	
pentane	BCF	171	
CAS: 109-66-0	Pow Log	3.39	
	Potential	High	

### 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Propane	Koc	460	Henry	71636.78 Pa·m³/mol
CAS: 74-98-6	Conclusion	Moderate	Dry soil	Yes
	Surface tension	7.02E-3 N/m (25 °C)	Moist soil	Yes
Butane	Koc	900	Henry	96258.75 Pa·m³/mol
CAS: 106-97-8	Conclusion	Low	Dry soil	Yes
	Surface tension	1.187E-2 N/m (25 °C)	Moist soil	Yes

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### SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility	
Isobutane	Koc	35	Henry	120576.75 Pa·m³/mol
CAS: 75-28-5	Conclusion	Very High	Dry soil	Yes
	Surface tension	9.84E-3 N/m (25 °C)	Moist soil	Yes
pentane	Koc	80	Henry	126656.25 Pa·m³/mol
CAS: 109-66-0	Conclusion	Very High	Dry soil	Yes
	Surface tension	1.547E-2 N/m (25 °C)	Moist soil	Yes

### 12.5 Results of PBT and vPvB assessment:

Non-applicable

### 12.6 Other adverse effects:

Not described

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### 13.1 Disposal methods:

### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See epigraph 6.2.

### Regulations related to waste management:

Legislation related to waste management:

Basel Convention (Hazardous Waste)

Hazardous Waste (Regulation of Exports and Imports) Act 1989 and Amendments

### **SECTION 14: TRANSPORT INFORMATION**

### Transport of dangerous goods by land:

With regard to ADG Code:



14.1 UN number: UN195014.2 Proper shipping name or AEROSOLS

Technical Name:

14.3 Transport hazard class: 2

Labels: 2.1 **14.4 Packing Group:** N/A

14.5 Environmental hazards for No Transport Purposes:

14.6 Special precautions for user

the IBC Code:

Physico-Chemical properties: see section 9

14.7 Transport in bulk according to Non-applicable Annex II of MARPOL 73/78 and

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

5)

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### SECTION 14: TRANSPORT INFORMATION (continued)



14.1 UN number: UN195014.2 Proper shipping name or AEROSOLS

Technical Name:

 14.3
 Transport hazard class:
 2

 Labels:
 2.1

 14.4
 Packing Group:
 N/A

14.5 Marine pollutant: No

14.6 Special precautions for user

Special regulations: 63, 959, 190, 277, 327, 344

EmS Codes: F-D, S-U
Physico-Chemical properties: see section 9

Limited quantities: 1 L

Segregation group: Non-applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code:

### Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:



14.1 UN number: UN195014.2 Proper shipping name or AEROSOLS

Technical Name:

14.3 Transport hazard class: 2

Labels: 2.1 **14.4 Packing Group:** N/A

14.5 Environmental hazards for Transport Purposes:

14.6 Special precautions for user

Physico-Chemical properties: see section 9 **14.7 Transport in bulk according to** Non-applicable

Annex II of MARPOL 73/78 and

the IBC Code:

### **SECTION 15: REGULATORY INFORMATION**

### 15.1 Safety, health and environmental regulations:

### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Nο

### Industrial Chemicals Act 2019:

Industrial Chemicals (Notification and Assessment) Act 1989

## **SECTION 16: OTHER INFORMATION**

### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with WHS regulations and Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals.

Texts of the legislative phrases mentioned in section 2:

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### SECTION 16: OTHER INFORMATION (continued)

H229: Pressurised container: May burst if heated.

H222: Extremely flammable aerosol.

### Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

### Principal bibliographical sources:

http://www.safeworkaustralia.gov.au/

### Abbreviations and acronyms:

ADG: Australian Code for the Transport of Dangerous Goods by Road and Rail

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current Australian legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET

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