Synthetic Silica Glass

**MATERIALS Revision Date** 

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### 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

#### **Product information**

**NOVAXIL**<sup>TM</sup> Trade Name

Material Synthetic Silica Glass

Company **Cristal Materials Corporation** 

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#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

# Information on ingredients / Hazardous components

· Silicon dioxide, SiO<sub>2</sub>, 100%, chemically prepared

CAS-No. 112945-52-5

7631-86-9

EC-No. 231-545-4

See chapter 16 for text of risk phrases

# 3. HAZARDS IDENTIFICATION

### Additional safety information for humans and the environment

On the basis of our data the product is not a hazardous substance as defined by the Chemicals Act or Hazardous Substance Ordinance in the currently valid versions.

#### 4. FIRST AID MEASURES

#### Inhalation

In case product dust is released:

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Possible discomfort: cough, sneezing

Move victims into fresh air.

#### Skin contact

Wash off with plenty of water and soap.

### Eye contact

Possible discomfort is due to foreign substance effect.

Rinse thoroughly with plenty of water keeping eyelid open.

In case of persistent discomfort: Consult an ophthalmologist.

# Ingestion

Clean mouth with water and drink afterwards plenty of water.

After absorbing large amounts of substance / In case of discomfort: Supply with medical care.

## Notes to physician

No hazards which require special first aid measures.

### 5. FIRE-FIGHTING MEASURES

# Suitable extinguishing media

All extinguishing substances suitable.

# Specific hazards during fire fighting

None.

### **Further information**

Water used to extinguish fire should not enter drainage systems, soil or stretches of water.

Ensure there are sufficient retaining facilities for water used to extinguish fire.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

#### 6. ACCIDENTAL RELEASE MEASURES

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# **Personal precautions**

Wear personal protective equipment.

## Methods for cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

#### 7. HANDLING AND STORAGE

## Handling

## Safe handling advice

If necessary: Local ventilation.

# Advice on protection against fire and explosion

Take precautionary measures against static discharges.

## Storage

### Requirements for storage areas and containers

No special precautions required.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# Components with workplace control parameters

Personal protective equipment

## **Respiratory protection**

No special protective equipment required.

If dust occurs: Dust mask with P2 particle filter

## **Hand protection**

Wear protective gloves made of the following materials: material, rubber, leather.

The material thickness and rupture time data do not apply to non-solute solids / dusts.

# Eye protection

No special protective equipment required.

If dust occurs: basket-shaped glasses

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#### Skin and body protection

No special protective equipment required.

## Hygiene measures

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work.

To ensure ideal skin protection: use super fatted soaps and skin cream for skin care.

Wash contaminated clothing before re-use.

#### **Protective measures**

Handle in accordance with good industrial hygiene and safety practices.

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

If the limits at the workplace are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

# **Appearance**

Form transparent glass like material

Color colorless
Odor odorless

### Safety data

not applicable pН ca. 1700 °C Melting point/range Boiling point/range not applicable Flash point not applicable Flammability not applicable Ignition temperature not applicable Autoinflammability not applicable Lower explosion limit not applicable Upper explosion limit not applicable Minimum ignition energy > 10 Joule Vapour pressure not applicable

Density ca. 2,2 g/cm3 (20 °C)

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Water solubility

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Tapped density not applicable

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Partition coefficient (n-octanol/water) not applicable
Viscosity, dynamic not applicable

#### 10. STABILITY AND REACTIVITY

Hazardous decomposition products

None

Thermal decomposition

> 2000 °C

insoluble

### 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity LD50 Rat: > 10000 mg/kg

Method: literature

Acute inhalation toxicity LC0 Rat: 0,139 mg/l / 4 h

Method: literature

(maximum concentration attainable in experiments)

No deaths occurred.

Acute dermal toxicity LD50 Rabbit: > 5000 mg/kg

Method: literature

Skin irritation Rabbit / literature

not irritating

Eye irritation Rabbit / literature

not irritating

Repeated dose toxicity Oral

no negative effects

inhalative

No irreversible changes and no indication of silicosis.

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Mutagenicity assessment In vitro and in vivo experiments, no evidence of mutagenic

effects, literature.

Carcinogenicity no negative effects

Toxicity to reproduction no negative effects

Human experience Silicosis or other product specific illnesses of the respiratory

tract were not observed in association with the product.

### 12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Behavior in environmental compartments

**Ecotoxicity effects** 

Toxicity to fish LC50 (Brachydanio rerio): > 10000 mg/l / 96 h

Method: OECD 203

Toxicity to daphnia EC50 Daphnia magna: > 10000 mg/l / 24 h

Method: OECD 202

# 13. DISPOSAL CONSIDERATIONS

# **Product**

Can be disposed of with domestic refuse in accordance with the necessary technical regulations following consultation with waste disposal expert(s) and the responsible authorities.

# **Uncleaned packaging**

Offer rinsed packaging material to local recycling facilities.

Other countries: observe the national regulations.

# **Waste Key Number**

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No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer.

The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

#### 14. TRANSPORT INFORMATION

# Transport/further information

Not classified as dangerous in the meaning of transport regulations.

#### 15. REGULATORY INFORMATION

#### Labelling according to EC Directives

Other data On the basis of our data the product is not a hazardous substance as

defined by the Chemicals Act or Hazardous Substance Ordinance in

the currently valid versions.

**National legislation** 

#### 16. OTHER INFORMATION

# Risk phrase (R phrase) texts

#### **Further information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.