

SAFETY DATA SHEET

BOROSILICATE N-BK7 OPTICAL GLASS

According to Regulation (EC) No.1907/2006 (REACH)



Revision 2016 : Issued 12th October 2016

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1. PRODUCT IDENTIFIERS:

Product Name: Borosilicate Glass
Synonyms, Trade Names: N-BK7, Optical Crown Glass

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified Uses: Optical Material for manufacture of Optical Components.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company: **CRYSTRAN LTD**, 1 Broom Road Business Park, Poole, Dorset UK BH12 4PA
☎ +44 1202 307650

1.4. EMERGENCY TELEPHONE NUMBER

Emergency Phone: ☎ +44 1202 307650 (Monday to Friday 08:30 to 17:00 GMT)
Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department. The attending health professional will be able to contact the National Poisons Information Service.

2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

No Hazardous Product as specified in Directive 67/548/EEC

2.2. LABEL ELEMENTS

None

2.3. OTHER HAZARDS

None



3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

Component Name	CAS number	%	EC number (EINECS)	EU index	UN number
Silicon Dioxide	7631-86-9	60-70%	231-545-4	-	-
Boron Oxide	1303-86-2	10-20%	215-125-8	-	-
Potassium Oxide	12136-45-7	5-15%	235-227-6	-	-
Sodium Oxide	1313-59-3	1-15%	215-208-9	-	-
Barium Oxide	1304-28-5	1-10%	215-127-9	-	-
Antimony Trioxide	1309-64-4	<1%	215-175-0	051-003-00-9	1549
Calcium Oxide	1305-78-8	<1%	215-138-9	-	-
Titanium Oxide	13463-67-7	<1%	236-675-5	-	-
Zinc Oxide	1314-13-2	<1%	215-222-5	-	-

4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

GENERAL: Consult a doctor for specific advice.
EYES: Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention.
SKIN: Wash thoroughly with soap and water.
INHALATION: Remove to fresh air.
INGESTION: Wash out mouth thoroughly with water.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Refer to Section 2.2 and to section 11.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No Data.

5. FIRE FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Not Ignitable. Not Applicable

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

None known

5.3. ADVICE FOR FIREFIGHTERS

None

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wash site of spillage with water. Beware of sharp pieces and cuts. Avoid making dust.

6.2. ENVIRONMENTAL PRECAUTIONS

No problems envisaged.

6.3. METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Take up and containerize for proper disposal. Beware of sharps. Containerize any cleaning materials used for proper disposal.

6.4. REFERENCE TO OTHER SECTIONS

Dispose as in Section 13.

CRYSTRAN LTD

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TEL: +44 1202 307650

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7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING:

No special precautions

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store at room temperature

7.3. SPECIFIC END USES

Optical Material for Manufacture of Optical Components.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS (OEL) = Not Assigned

EXPOSURE CONTROLS

Use of a laboratory coat is suggested. Safety goggles or safety glasses with side shields are required if there is any possibility of chipping or dust creation.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Clear glassy geometric shapes, no odour.

BOILING POINT (760mm Hg) Not Applicable

MELTING POINT: 557°C (Transformation Temperature)

SPECIFIC GRAVITY: 2.51 g/mL

SOLUBILITY IN WATER: Practically insoluble.

FLASH POINT: Not Applicable

FLAMMABILITY: Not Applicable

EXPLOSIVE PROPERTIES: Not Applicable

VAPOUR PRESSURE: Negligible at 25°C

pH IN AQUEOUS SOLUTION: Not determined

9.2. OTHER SAFETY INFORMATION

None

10. STABILITY AND REACTIVITY

10.1. REACTIVITY

Stable

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

None known

10.5. INCOMPATIBLE MATERIALS

Hydrogen Fluoride

10.2. CHEMICAL STABILITY

Stable under normal conditions of storage and use

10.4. CONDITIONS TO AVOID

Avoid Hydrogen Fluoride acid

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

None known

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Care must be exercised when machining and creating dust or particles. Inhalation of dust may irritate respiratory system.

TOXIC DOSE - LD50 > Not Assigned CARCINOGENICITY: No evidence of carcinogenic properties.

MUTAGENICITY/TERATOGENICITY: No evidence of reproductive effects.

12. ECOLOGICAL INFORMATION

12.1. TOXICITY

No Data

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

Not required or conducted

12.2. PERSISTENCE AND DEGRADABILITY

No Data

12.6. OTHER ADVERSE AFFECTS

No Data

12.3. BIOACCUMULATIVE POTENTIAL

No Data

12.4. MOBILITY IN SOIL

No Data

13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Chemical residues are generally classified as special waste, and are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company.

14. TRANSPORT INFORMATION

14.1. UN NUMBER: None

14.2. UN PROPER SHIPPING NAME:

Not subject to transportation regulations.

14.3. TRANSPORT HAZARD CLASS: None

14.4. PACKING GROUP: None

14.5. ENVIRONMENTAL HAZARDS: None

14.6. SPECIAL PRECAUTIONS FOR USER: None

14.7. TRANSPORT IN BULK MARPOL / IBC: No Data

15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

None

16. OTHER INFORMATION

REVISION DATE: 12th October 2016 ©2016 Crystran Ltd.

The above information is believed to be correct but does not purport to be all inclusive and must be used only as a guide.

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