

SAFETY DATA SHEET
MAGNESIUM OXIDE OPTICAL CRYSTAL
According to Regulation (EC) No.1907/2006 (REACH)



1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

CHEMICAL NAME: Magnesium Oxide
SYNONYMS, TRADE NAMES:
DESCRIPTION: Inorganic Crystalline pieces
USAGE: Optical Material
APPEARANCE: Clear transparent solid. No odour
SUPPLIER: CRYSTRAN LTD, 1 Broom Road Business Park, Poole, Dorset UK BH12 4PA
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2. HAZARDS IDENTIFICATION

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



3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT NAME	CAS number	%	EC number (EINECS)	EU index	UN number
Magnesium Oxide	1309-48-4	100%	215-171-9	Not listed	Not Listed

4. FIRST AID MEASURES

EYES: Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention.
SKIN: Treat any cuts in the normal way.
INHALATION: Remove from exposure.
INGESTION: Wash out mouth thoroughly with water. In severe cases obtain medical attention immediately!

5. FIRE FIGHTING MEASURES

FLASH POINT: Not Ignitable. Not Applicable
UNUSUAL FIRE HAZARDS: None

6. ACCIDENTAL RELEASE MEASURES

CONTAMINATION CLEANUP: Wear suitable protective clothing & equipment as listed under Exposure / Personal protection. Take up and containerize for proper disposal. Avoid making dust. Containerize any cleaning materials used for proper disposal.

7. HANDLING AND STORAGE

USAGE PRECAUTIONS: Avoid skin contact. Protect against physical damage and avoid generating dust.
STORAGE PRECAUTIONS: Keep away from foodstuffs. Keep away from acids and strong bases.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

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. Avoid breathing dust when generated.

OCCUPATIONAL EXPOSURE LIMITS (OEL) – Magnesium Oxide (as Mg)
Total inhalable dust: Long term 10 mg/m³
Fume & respirable dust: Long term 4 mg/m³; Short term: 10 mg/m³

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE :	Clear glassy geometric shapes, no odour.
pH IN AQUEOUS SOLUTION:	Not determined
BOILING POINT (760mm Hg)	Not known
MELTING POINT:	2800°C
FLASH POINT:	Not Applicable
FLAMMABILITY:	Not Applicable
EXPLOSIVE PROPERTIES:	Not Applicable
SPECIFIC GRAVITY:	3.58
VAPOUR PRESSURE:	Not Applicable
SOLUBILITY IN WATER:	Practically insoluble; 0.000627mg/100ml H ₂ O at 20°C

10. STABILITY AND REACTIVITY

STABILITY:	Stable under normal conditions of storage and use.
HAZARDOUS DECOMPOSITION:	Stable
MATERIALS TO AVOID:	Halogen-halogen compounds, non-metallic halides.

11. TOXICOLOGICAL INFORMATION

TOXIC DOSE - LD50	Not known.
CARCINOGENICITY	No evidence of carcinogenic properties
MUTAGENICITY/TERATOGENICITY	No evidence of mutagenic or teratogenic effects
TOXICOLOGICAL FINDINGS	No indication of any hazardous potential. Particular care must be exercised when machining and creating dust or particles.

12. ECOLOGICAL INFORMATION

No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Can be safely disposed of as ordinary refuse.
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14. TRANSPORT INFORMATION

Not Subject to Transport Regulations

15. REGULATORY INFORMATION

Hazard Symbols:	None
Risk Phrases:	None
Safety Phrases:	S22 - Do not breathe dust.

16. OTHER INFORMATION

REVISION DATE: April 2015 Supercedes issue of February 2007 (Changes in Section: 2, 3, (2 & 3 reversed)

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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