Safety Data Sheet



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • BC-634A Optical Pads

Synonyms • Optical Pads

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

Relevant identified use(s) • Optical Interface

1.3 Details of the supplier of the safety data sheet

Manufacturer • Saint-Gobain Crystals

17900 Great Lakes Parkway

Hiram, OH 44234 United States

www.crystals.saint-gobain.com scintillation@saint-gobain.com

Telephone (General) • 440-834-5600

1.4 Emergency telephone number

Manufacturer1-800-424-9300 - ChemTrecManufacturer703-525-3887 - Outside U.S.

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLPNot classifiedNot classified

2.2 Label Elements

CLP

Hazard statements • No label element(s) required

DSD/DPD

Risk phrases • No label element(s) required

2.3 Other Hazards

CLP

• According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered

hazardous.

DSD/DPD

 According to European Directive 1999/45/EC this preparation is not considered dangerous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

· Not classified

2.2 Label elements

OSHA HCS 2012

Hazard statements • No label element(s) required

2.3 Other hazards

OSHA HCS 2012

This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200

Hazard Communication Standard.

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS

· Not classified

2.2 Label elements

WHMIS

· No label element(s) required.

2.3 Other hazards

WHMIS

• In Canada, the product mentioned above is not considered hazardous under the

Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

Material does not meet the criteria of a substance.

3.2 Mixtures

	Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Proprietary	Proprietary	55.12912%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Proprietary	Proprietary	26.15316% TO 43.5886%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA
Proprietary	Proprietary	1.654052% TO 1.936109%	NDA	EU DSD/DPD: Not Classified EU CLP: Not Classified OSHA HCS 2012: Not Classified	NDA

Skin

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

 Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. If signs/symptoms continue, get medical attention.

Wash skin with soap and water. If irritation develops and persists, get medical

attention.

Flush eyes with water for at least 15 minutes while holding eyelids open. If eye Eye

irritation persists: Get medical advice/attention.

· Obtain medical attention immediately if ingested. Ingestion

4.2 Most important symptoms and effects, both acute and delayed

• Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

 All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • Water fog, carbon dioxide, foam, dry chemical.

Unsuitable Extinguishing

Media

· No data available

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion

Hazards

No data available

Hazardous Combustion

Products

No data available

5.3 Advice for firefighters

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

 Ventilate the area before entry. Do not walk through spilled material. Wear appropriate **Personal Precautions** personal protective equipment, avoid direct contact.

Emergency Procedures · Keep unauthorized personnel away.

6.2 Environmental precautions

· Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

Carefully shovel or sweep up spilled material and place in suitable container.

6.4 Reference to other sections

Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

• Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Store in a cool, dry, well ventilated area.

7.3 Specific end use(s)

Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines

No applicable exposure limits available for product or components.

8.2 Exposure controls

Engineering Measures/Controls

Adequate ventilation systems as needed to control concentrations of airborne
contaminants below applicable threshold limit values. Ensure that dust handling
systems (such as exhaust ducts, dust collectors, vessels and processing equipment)
are designed in a manner to prevent the escape of dust into the work area (i.e., there
is not leakage from the equipment).

Personal Protective Equipment

Respiratory

For limited exposure use an N95 dust mask. For prolonged exposure use an airpurifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA
respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a
NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are
exceeded or symptoms are experienced.

Eye/Face

Wear safety goggles.

Skin/Body

Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

Environmental Exposure Controls

Follow best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Material Description				
Physical Form	Solid	Appearance/Description	Solid optical pad.	
Color	Data lacking	Odor	Data lacking	
Odor Threshold	Data lacking			
General Properties				
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking	
Decomposition Temperature	Data lacking	рН	Data lacking	
Specific Gravity/Relative Density	Data lacking	Water Solubility	Data lacking	
Viscosity	Data lacking	Explosive Properties	Data lacking	
Oxidizing Properties:	Data lacking			
Volatility		-	-	
Vapor Pressure	Data lacking	Vapor Density	Data lacking	
Evaporation Rate	Data lacking			

Flammability				
Flash Point	Data lacking	UEL	Data lacking	
LEL	Data lacking	Autoignition	Data lacking	
Flammability (solid, gas)	Data lacking			
Environmental				
Octanol/Water Partition coefficient Data lacking				

9.2 Other Information

• No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

· No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

· Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

· Hazardous polymerization not indicated.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

· No data available

10.6 Hazardous decomposition products

· No data available

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Classification
EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-SE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-RE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

Potential Health Effects

Inhalation

Acute (Immediate) • Processes such as cutting, grinding, crushing, or impact may result in generation of

excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the

lungs but reactions are typically reversible.

Chronic (Delayed)

No data available

Skin

Acute (Immediate) • Exposure to dust may cause mechanical irritation.

Chronic (Delayed)No data available.

Eye

Acute (Immediate) • Exposure to dust may cause mechanical irritation. Excessive concentrations of

nuisance dust in the workplace may reduce visibility and may cause unpleasant

deposits in eyes.

Chronic (Delayed)

No data available.

Ingestion

Acute (Immediate) • Excessive concentrations of nuisance dust in the workplace may cause mechanical

irritation to mucous membranes.

Chronic (Delayed)
 No data available.

Section 12 - Ecological Information

12.1 Toxicity

Material data lacking.

12.2 Persistence and degradability

Material data lacking.

12.3 Bioaccumulative potential

Material data lacking.

12.4 Mobility in Soil

Material data lacking.

12.5 Results of PBT and vPvB assessment

No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

· No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

• Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

• Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user

· None specified.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

· Data lacking.

Section 15 - Regulatory Information

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

SARA Hazard Classifications • None

State Right To Know				
Component	CAS	PA		
Proprietary	Proprietary	No		
Proprietary	Proprietary Proprietary No			

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Proprietary	Proprietary	Yes	No	Yes	No	No
Proprietary	Proprietary	Yes	No	Yes	No	No
	Inventory (Con't.)					
Compo	Component CAS Korea KECL TSCA					SCA
Proprietary		Proprietary	Yes		es Yes	
Proprietary		Proprietary		Yes		Yes

Canada

Labor Canada - WHMIS 1988 - Classifications of Substances		
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Canada - WHMIS 1988 - Ingredient Disclosure List • Proprietary	Proprietary	Not Listed

• Proprietary	Proprietary	Not Listed
Environment		
Environment Canada - CEPA - Priority Substances List		
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Trophictary	Trophetary	Not Elstod
China		
Environment		
China - Ozone Depleting Substances - First Schedule • Proprietary	Proprietary	Not Listed
	-	Not Listed
• Proprietary	Proprietary	Not Listed
China - Ozone Depleting Substances - Second Schedule		
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
	,	
China - Ozone Depleting Substances - Third Schedule		
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Other		
China - Annex I & II - Controlled Chemicals Lists		
Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
China - Dangerous Goods List		
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Germany		
Labor		
Germany - Immission Control - Qualifying Quantities for Major Accident Prevention		
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Germany - Immission Control - Qualifying Quantities for Safety Reporting		
Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Germany - TRGS 505 - Specific Lead Regulations		
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Germany - TRGS 511 - Specific Ammonium Nitrate Regulations		
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Environment		
Germany - TA Luft - Types and Classes		
Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Germany - TA Luft - Emission Limits for Carcinogenic Substances		
- The Late Limited of Outernoyelle outstances		

Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Germany - TA Luft - Emission Limits for Fibers		
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Dusts		
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Gases		
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Germany - TA Luft - Emission Limits for Organic Substances		
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
Germany - Water Classification (VwVwS) - Annex 1		
• Proprietary	Proprietary	Not Listed
• Proprietary	Proprietary	Not Listed
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		
• Proprietary	Proprietary	ID Number 543, hazard class - low hazard to waters (footnote 13)
• Proprietary	Proprietary	Not Listed
Germany - Water Classification (VwVwS) - Annex 3		
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed

Labor	
U.S OSHA - Process Safety Management - Highly Hazardous Chemicals	
Proprietary	Proprietary Not Listed
Proprietary	Proprietary Not Listed
U.S OSHA - Specifically Regulated Chemicals	
Proprietary	Proprietary Not Listed
Proprietary	Proprietary Not Listed
Environment	
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants	
Proprietary	Proprietary Not Listed
Proprietary	Proprietary Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantit	ties
Proprietary	Proprietary Not Listed
Proprietary	Proprietary Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities	
Proprietary	Proprietary Not Listed
Proprietary	Proprietary Not Listed

Proprietary	Not Listed
Proprietary	Not Listed
Proprietary	Not Listed
Proprietary	Not Listed
Proprietary	Not Listed
Proprietary	Not Listed
Proprietary	Not Listed
Proprietary	Not Listed
	Proprietary Proprietary Proprietary Proprietary Proprietary Proprietary

United States - California

Environment		
U.S California - Proposition 65 - Carcinogens List		
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
U.S California - Proposition 65 - Developmental Toxicity		
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)		
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Female		
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed

United States - Pennsylvania

Labor U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard Lis	et	
Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed
U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Subst	ances	
• Proprietary	Proprietary	Not Listed
Proprietary	Proprietary	Not Listed

15.2 Chemical Safety Assessment

· No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Revision Date

Preparation Date

Disclaimer/Statement of Liability

- 23/March/2017
- · 23/March/2017
- Reasonable care has been taken in the preparation of this information, but the supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Safety Data Sheet before handling product.

Key to abbreviations NDA = No Data Available