

Safety Data Sheet



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

1.1 Product identifier

Product Name • **BC-630 Silicone Grease**

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

Relevant identified use(s) • Optical Coupling Grease

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

Manufacturer • 1-800-424-9300 - ChemTrec

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

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

2.1 Classification of the substance or mixture

CLP • Not classified
DSD/DPD • Not 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 • Eye Mild Irritation 2B

2.2 Label elements

OSHA HCS 2012

WARNING

Hazard statements • Causes eye irritation

Precautionary statements

Prevention • Wash thoroughly after handling.

Response • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

OSHA HCS 2012 • Under United States Regulations (29 CFR 1900.1200 - Hazard Communication Standard) this product is considered Hazardous.

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Substituted Polysiloxane	CAS:73559-47-4	90% TO 95%	NDA	EU DSD/DPD: Data lacking EU CLP: Data lacking OSHA HCS 2012: Data lacking	NDA
Silica, amorphous fumed	CAS:112945-52-5	4% TO 6%	Ingestion/Oral-Rat LD50 • 3160 mg/kg	EU DSD/DPD: Data lacking EU CLP: Data lacking OSHA HCS 2012: Data lacking	NDA

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

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

Skin

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

- Eye**
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
- Ingestion**
- Get medical attention.

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**
- LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.

- Unsuitable Extinguishing Media**
- No data available.

5.2 Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Product will burn under fire conditions.

- Hazardous Combustion Products**
- Formaldehyde, oxides of carbon, silica (crystalline).

5.3 Advice for firefighters

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

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- Do not walk through spilled material. Spilled material may cause surfaces to become slippery.
- 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**
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Clean up residual material with solvent such as paint thinner or mineral spirits, provided that there is good ventilation and no sources of ignition.

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**
- Avoid breathing mist or vapor. Avoid contact with skin, eyes or clothing. Wear appropriate Personal Protective Equipment (PPE). 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 • Keep container tightly closed. Store below 90°F.

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 • Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory • No respiratory protection is required under normal conditions of use.

Eye/Face • Wear safety glasses or goggles.

Skin/Body • Wear appropriate gloves. Normal work clothing (long sleeved shirts and long pants) is recommended.

Environmental Exposure Controls • Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. 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	Liquid	Appearance/Description	Translucent waxy solid with a slight odor.
Color	Translucent	Odor	Slight odor.
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	6 to 7
Specific Gravity/Relative Density	= 1.04 @ 25 °C(77 °F) Water=1	Water Solubility	Negligible < 0.1 %
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	> 148 °C(> 298.4 °F)	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

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Combustible material, heat, open flame, sparks.

10.5 Incompatible materials

- Strong acids, strong bases, strong oxidizing agents.

10.6 Hazardous decomposition products

- Dimethylcyclosiloxanes, Methylphenylcyclosiloxanes.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Eye Mild Irritation 2B
Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-SE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met

STOT-RE

EU/CLP • Classification criteria not met

OSHA HCS 2012 • Classification criteria not met

Route(s) of entry/exposure • Inhalation, Skin, Eye, Ingestion

Potential Health Effects

Inhalation

- Acute (Immediate)** • Not anticipated to be an inhalation hazard under normal use conditions.
- Chronic (Delayed)** • No data available.

Skin

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available.

Eye

- Acute (Immediate)** • Causes eye irritation.
- Chronic (Delayed)** • No data available.

Ingestion

- Acute (Immediate)** • Very low toxicity if swallowed.
- Chronic (Delayed)** • No data available.

Carcinogenic Effects

- Under certain conditions, this product may generate formaldehyde as a by product of oxidative thermal decomposition. Formaldehyde is listed as a known human carcinogen by IARC.

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
IMO/IMDG	NDA	Not regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not regulated	NDA	NDA	NDA

14.6 Special precautions for user • None known.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code • Not relevant.

Section 15 - Regulatory Information

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

SARA Hazard Classifications • Acute

State Right To Know				
Component	CAS	MA	NJ	PA
Silica, amorphous fumed	112945-52-5	No	No	No
Substituted Polysiloxane	73559-47-4	No	No	No

Inventory				
Component	CAS	EU EINECS	EU ELNICS	TSCA
Silica, amorphous fumed	112945-52-5	No	No	No
Substituted Polysiloxane	73559-47-4	No	No	No

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

EU - Hazardous Substances Restricted or Prohibited in Electrical Equipment (2002/95/EC) (RoHS)

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

EU - Inventory of Cosmetic Ingredients Directive (INCI) (76/768/EEC) - Other Ingredients

• Silica, amorphous fumed	112945-52-5	Abrasive; Absorbent; Anticaking; Bulking; Opacifying; Viscosity controlling
• Substituted Polysiloxane	73559-47-4	Not Listed

EU - Inventory of Cosmetic Ingredients Directive (INCI) (76/768/EEC) - Perfume and Aromatic Materials

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

United States**Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

Environment**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - CWA (Clean Water Act) - Hazardous Substances

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - CWA (Clean Water Act) - Priority Pollutants

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - CWA (Clean Water Act) - Reportable Quantities of Designated Hazardous Substances

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - CWA (Clean Water Act) - Toxic Pollutants

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

United States - Pennsylvania**Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

United States - Rhode Island

Labor**U.S. - Rhode Island - Hazardous Substance List**

• Silica, amorphous fumed	112945-52-5	Not Listed
• Substituted Polysiloxane	73559-47-4	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information**Revision Date**

- 25/May/2017

Preparation Date

- 12/August/2013

Disclaimer/Statement of Liability

- 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