

SAFETY DATA SHEET

PRODUCT NAME: LOW EXPANSION CLEAR FRIT

1 – IDENTIFICATION OF MATERIAL AND SUPPLIER

SUPPLIER: _____

ADDRESS: _____

TELEPHONE: _____

FACSIMILIE: _____

EMERGENCY: _____

WEB SITE: _____

E-MAIL: _____

SYNONOMYS: CHRYSANTHOS LOW EXPANSION CLEAR FRIT FR002N

USES: CERAMIC GLAZES

ISSUED DATE: Thursday, 3 May 2018

2 – HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC

Avoid dust formation. Do not breathe vapors/dust. May cause respiratory tract, eye and skin irritation. Contains crystalline silica which causes silicosis and lung cancer.

GHS LABEL ELEMENTS:

HAZARD STATEMENTS:

H319 – Causes serious eye irritation.

H332 – Harmful if inhaled.

H315 – Causes skin irritation.

PRECAUTIONARY
STATEMENTS:

P264 – Wash hands thoroughly after handling.

P270 - When using do not eat, drink or smoke.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 – Use only outdoors or well ventilated area.

P262 – Do not get in eyes, on skin, or on clothing.

SIGNAL WORD: Warning

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UN NUMBER: None allocated
PACKING GROUP: None allocated
HAZCHEM CODE: None allocated

DG CODE: None allocated
SUBSIDURARY RISK: None allocated

3 – COMPOSITION / INFORMATION ON INGREDIENTS

ENTITY	CAS NO	CLASSIFICATION	%
FRITS, CHEMICALS	65997-18-4	N/A	99.5 - 100%
SILICA	14808-60-7	N/A	0 - 0.5%

TSCA Description: "Frit is a mixture of inorganic chemical substances produced by rapidly quenching a molten, complex combination of materials, confining the chemical substances thus manufactured as non-migratory components of glassy solid flakes or granules."

4 – FIRST AID MEASURES

EYE:

Flush eyes with large quantities of water for at least 15 minutes. If irritation persists after washing, contact a doctor.

INHALED:

Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a doctor.

SKIN:

Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a doctor.

SWALLOWED:

Drink plenty of water. Do not induce vomiting. Consult a doctor if necessary.

ADVICE TO DOCTOR:

Treat symptomatically.

5 – FIRE FIGHTING MEASURES

FLAMMABILITY:

Non Flammable.

FIRE & EXPLOSION:

No fire or explosion hazard exists.

EXTINGUISHING:

Use an extinguishing agent suitable for the surrounding fire.

HAZCHEM CODE:

None allocated.

6 – ACCIDENTAL RELEASE MEASURES

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SPILLAGE: Use personal protection equipment. Contain spillage. Uncontaminated material may be recovered and re-used. Contaminated material to be collected and placed in suitable containers for disposal.

7 – STORAGE AND HANDLING

STORAGE: Keep containers tightly closed in a dry, cool and well-ventilated place

HANDLING: Avoid dust formation. Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink, or smoke in areas of use or storage. Do not take internally. Wash thoroughly after handling.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

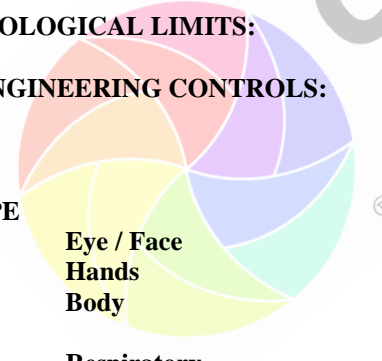
EXPOSURE STANDARDS:

INGREDIENT	TWA		STEL		ACGIH TLV	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
SILICA	-	0.1	-	-	-	0.1
FRITS, CHEMICALS - Ba	-	-	-	-	-	0.5

BIOLOGICAL LIMITS: No biological limits allocated.

ENGINEERING CONTROLS: Use in well ventilated area. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapor levels below the recommended exposure standard.

PPE



Eye / Face
Hands
Body
Respiratory

Wear appropriate eye protection / safety glasses.
Impervious gloves..
Wear appropriate clean, protective clothing such as, but not limited to, overalls, smocks, and aprons.
Use a NIOSH approved respirator in case of insufficient ventilation.

WORK/HYGENIC PRACTICES: When products are in use, do not eat, drink, or smoke. Wash hands immediately after use.

9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White powder
ODOUR:	None
BOILING POINT:	N/A
MELTING POINT:	NOT AVAILABLE
VAPOUR PRESSURE:	NOT AVAILABLE
SPECIFIC GRAVITY:	N/A
FLASH POINT:	NOT RELEVANT
FLAMMABILITY LIMITS:	NON FLAMMABLE
SOLUBILITY IN WATER:	Insoluble
VISCOSITY:	No data

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pH:	N/A
% VOLATILES	N/A
EVAPORATION RATE	NOT AVAILABLE
UPPER EXPLOSION LIMIT	NOT RELEVANT
LOWER EXPLOSION LIMIT	NOT RELEVANT

10 – STABILITY AND REACTIVITY

REACTIVITY:	None known.
CHEMICAL STABILITY:	Stable.
CONDITIONS TO AVOID:	Fumes from firing in kiln; Mist created from spray application. Avoid contact with incompatible substances.
INCOMPATIBLE MATERIAL:	None known.
HAZARDOUS DECOMPOSITION:	No decomposition if stored normally. Thermal decomposition can lead to release of irritating gases and vapors. Metal compounds.
HAZARDOUS REACTIONS:	None known.

11 – TOXICOLOGICAL INFORMATION

**HEALTH HAZARD SUMMARY:
ACUTE & CHRONIC**



EYE:	Contact with eyes may cause irritation.
INHALATION:	Dust or fumes from firing irritating to respiratory tract. Fumes may cause lung inflammation.
SKIN:	Prolonged skin contact may cause skin irritation.
INGESTION:	May irritate digestive tract.
TOXICITY DATA:	<p>QUARTZ (SILICA CRYSTALLINE) (14808-60-7)</p> <p>LCLo (inhalation) 300 µg/m³/10 years (human)</p> <p>TCLo (inhalation) 16,000,000 particles/ft³/8 hrs/17.9 years (human fibrosis)</p> <p>FRITS, CHEMICALS (65997-18-4)</p> <p>LD50 oral (rat) > 2,000 mg/kg</p> <p>LC50 oral (rat) > 2,000 mg/kg</p>

12 – ECOLOGICAL INFORMATION

ENVIRONMENT:	No data.
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13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: For small amounts dispose of to an approved landfill site. Contact the manufacturer for additional information if larger amounts are involved.

LEGISLATION: Dispose of in accordance with relevant local legislation.

14 – TRANSPORTATION

NOT CLASSIFIED AS DANGEROUS GOODS BY THE CRITERIA OF THE ADG CODE.

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG/IMO)	AIR TRANSPORT (IATA/ICAO)
UN NUMBER	None Allocated	None Allocated	None Allocated
PROPER SHIPPING NAME	Frit	Frit	Frit
DG CLASS / DIVISION	None Allocated	None Allocated	None Allocated
SUBSIDIARY RISKS	None Allocated	None Allocated	None Allocated
PACKING GROUP	None Allocated	None Allocated	None Allocated
HAZCHEM CODE	None Allocated	None Allocated	None Allocated

15 – REGULATORY INFORMATION

INVENTORY LISTINGS:



AUSTRALIA:

All components are listed on AICS or are exempt.

USA:

Silica is listed on IARC, OSHA and NTP carcinogen list.

All ingredients are on TSCA inventory.

California Proposition 65 - Proposition 65: Silica (Quartz) are listed on the carcinogen list.

CANADA:

All ingredients are on DSL inventory.

WHMIS – D2B Toxic material.

EUROPE:

All ingredients are on EC inventory or exempt.

CHEMICAL SAFETY ASSESSMENT:

EU:

Hazardous warning label required according to the EU guidelines/Dangerous Chemicals Ordinance.

16 – OTHER INFORMATION

ADDITIONAL INFORMATION:

PERSONAL PROTECTIVE EQUIPMENT GUIDLEINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment made.

HEALTH EFFECTS FROM EXPOSURE:

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It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

ABBREVIATIONS:

AICS	Australian Inventory of Chemical Substances
ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstracts Service Number
CNS	Central Nervous System
EC No.	EC No – European Community Number
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m ³	Milligrams per cubic meter
PEL	Permissible Exposure Limit
pH	Acidity < 7 – Alkalinity > 7 measure
ppm	Parts Per Million
REACH	Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
TLV	Threshold Limit Value
TWA/OEL	Time Weighted Average of Occupational Exposure Limit
STEL	Short Term Exposure Limit
TSCA	Toxic Substances Control Act

REVISION HISTORY:

Revision	Description
1.0	Creation

REPORT STATUS:

The report has been by Chrysanthos Color Company Limited – China. The information provided on safety and handling represents the current knowledge at the time of writing. We should be contacted directly for further clarification regarding any aspect of the product if required.

The SDS has been prepared with all due care to include accurate and up-to-date information. We do not however provide any warranty as to accuracy or completeness. As far as lawfully possibly, Chrysanthos Color Company Limited – China accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained herein.

PREPARED BY:

Tony Crisafi
Chrysanthos Color Company Limited
2nd Floor, Building B1,
No 19 Gaoxinxishi Road,
Nanning High Tech Zone, Nanning,
Guangxi 530003, China.

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PRODUCT NAME: LOW EXPANSION CLEAR FRIT

Tel/Fax: +86 (771) 231 0885
Mob: +61 402 830 337
Email: info@chrysanthos.com
Web: www.chrysanthos.com

End of SDS

