



SAFETY DATA SHEET

PRODUCT NAME: UNDERGLAZE TRANSFER SHEET

1 – IDENTIFICATION OF MATERIAL AND SUPPLIER

SUPPLIER: _____
 ADDRESS: _____
 TELEPHONE: _____
 FACSIMILE: _____
 EMERGENCY: _____
 WEBSITE: _____
 EMAIL: _____
 SYNONYMS: **ELAN TRANSFERS**
 USES: **UNDERGLAZE TRANSFER SHEET**
 ISSUED DATE: **JUNE 2024**

2 - HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO EC REGULATION 1272/2008 (CLP)

Each underglaze decal is printed with ceramic underglaze containing ceramic material consisting of non-lead frits, clay, and other minerals and color pigments. Contains potential carcinogens: Crystalline silica (quartz), as an inhalation hazard, may be present if: unfired, dried glaze is excessively handled and allowed to create dust.

Due to the nature of the underglaze decal and under normal usage as directed, silica is not deemed to be a breathing hazard.

GHS LABEL ELEMENTS:

HAZARD STATEMENTS: None allocated

PRECAUTIONARY STATEMENTS: None allocated

3 – COMPOSITION / INFORMATION ON INGREDIENTS*

ENTITY*	CAS NO	CLASSIFICATION	%#
KAOLIN	1332-58-7	Skin Irrit. 2 H315; Eye Irrit. 2 H319; STOT RE2 H373	< 16%
POTASH FELDSPAR	68476-25-5	Eye Irrit. 2 H319, STOT SE 3 H335	< 11%
SILICA	14808-60-7	STOT RE 2 H373; STOT RE 1 H372; Carc. 1A H350	0-13.4%
ZIRCONIUM SILICATE	10101-52-7	Eye Irrit. 2 H319; Skin Irrit. 2 H315	0-9%

* The remaining ingredients are not listed as they are either not classified as hazardous or fall below GHS cut off levels.

The concentrations shown are maximum across all colors.

4 – FIRST AID MEASURES

EYE: May cause irritation. Flush eyes with large quantities of water for at least 15 minutes. If irritation persists after washing, contact a doctor.
INHALED: Unlikely.
SKIN: May cause irritation. Wash skin with soap and water.
SWALLOWED: Unlikely.
ADVICE TO DOCTOR: Treat symptomatically.

5 – FIRE FIGHTING MEASURES

FLAMMABILITY:	Decal paper is flammable.
FIRE & EXPLOSION:	No explosion exists.
EXTINGUISHING:	Use an extinguishing agent suitable for the surrounding fire.
HAZCHEM CODE:	None allocated.

6 – ACCIDENTAL RELEASE MEASURES

SPILLAGE:	Not applicable.
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7 – STORAGE AND HANDLING

STORAGE:	Store in a cool, dry, well-ventilated area, out of direct sunlight.
HANDLING:	No special instructions.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE STANDARDS:**

INGREDIENT	TWA		STEL		ACGIH TLV	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
KAOLIN	10		-		3	
ZIRCONIUM SILICATE (as Zr)	5		10		5	
SILICA	0.1		-		0.1	

BIOLOGICAL LIMITS: No biological limits allocated.

ENGINEERING CONTROLS: None required.

PPE:

Eye / Face	N/A
Hands	N/A
Body	N/A
Respiratory	N/A

9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	N/A
ODOUR:	Negligible
BOILING POINT:	N/A
MELTING POINT:	N/A
VAPOUR PRESSURE:	N/A
SPECIFIC GRAVITY:	N/A
FLASH POINT:	N/A
FLAMMABILITY LIMITS:	N/A
SOLUBILITY IN WATER:	Negligible
VISCOSITY:	N/A
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: None known.
HAZARDOUS REACTIONS: None known.

11 – TOXICOLOGICAL INFORMATION

HEALTH HAZARD SUMMARY: Under normal conditions of use, adverse health effects are not anticipated. Due to the form of the products and low volatility, an inhalation hazard is not anticipated. These mixtures contain silica, a known carcinogen. Inhalation is the route of entry into the body that can lead to the development of Silicosis. The decal should be non-toxic during recommended use.

EYE: Low irritants. Contact may result in irritation, lacrimation, and redness.

INHALATION: Exposure is considered unlikely. Due to the form of the products and nature of use, an inhalation hazard is not anticipated with normal use.

SKIN: Low irritants. Prolonged or repeated contact may result in mild irritation.

INGESTION: Low toxicity. Ingestion is considered unlikely due to the form of the products. However, ingestion via hand-mouth transfer may result in gastrointestinal irritation, nausea, and vomiting. Maintain good personal hygiene standards.

TOXICITY DATA: QUARTZ (SILICA CRYSTALLINE) (14808-60-7)
 LCLo (inhalation) 300 µg/m³/10 years (human)
 TCLo (inhalation) 16,000,000 particles/ft³/8 hrs/17.9 years (human fibrosis)
 ZIRCONIUM SILICATE
 No data available.

12 – ECOLOGICAL INFORMATION

ENVIRONMENT: Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. Toxicity of the Products of Biodegradation: Insoluble in water. (can be separated from aqueous systems by sedimentation and/or filtration techniques). Predicted to have low mobility in soil. Other products, short term degradation unlikely. However, long term degradation may occur.

13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of in 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	Non-Dangerous Goods	Non-Dangerous Goods	Non-Dangerous Goods
DG CLASS/DIVISION	None Allocated	None Allocated	None Allocated
SUBSIDIARY	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:

USA:

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

All ingredients are on TSCA inventory.

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

CANADA:

All ingredients are on DSL inventory.

WHMIS – Not controlled.

EUROPE:

All ingredients are on EC inventory.

CHEMICAL SAFETY ASSESSMENT:

N/A

16 – OTHER INFORMATION

ADDITIONAL INFORMATION:

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

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:

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:

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 prepared by Elan Transfers. 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 possible, Elan Transfers accepts no liability for any loss, injury, or damage (including consequential loss) that may be suffered or incurred by any person as a consequence of their reliance on the information contained herein.

PREPARED BY:

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End of SDS