

CROMARTIE

Over 60 years at the centre of ceramics

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MATERIAL SAFETY DATA SHEET

1. Identification of the preparation/Supplier reference: Trade Name **Duncan glazes 20020 20026 20065 20075 20086 20088 20089 20091 AR600 and 700 series GL600 and 700 series, excluding GL614, GL632, GL637, GL657, GL658 and GL670 GL1609 AN313 SY549 SY1024 SY1025 GO100 series. Excluding GO123, GO134, GO135, GO136 and GO137**

Chemical name: Mixture of chemicals

Synonyms: None

Supplier; Cromartie Hobbycraft Ltd, Stoke on Trent. ST3 5AY, UK

Emergency numbers: 01782 343947 - 01782 313947 email: enquiries@cromartie .co.uk

2. Composition: Component CAS EINECS % of composition

Frit* 65997-18-4 2660476 <90%

Lead compounds up to 28% (as Pb)

Barium compounds up to 5% (as BaO)

Threshold for toxic classification under CHIP is 0.5% Pb, refer to section 15

* Frits are produced from the chemical reactions that occur during the high temperature smelting of various raw materials to form glass. The glass is rapidly cooled and ground to produce powdered frit. The lead listed for this product is incorporated into the glass structure of the frit, chemically reacted in the form of silicates or other essentially insoluble complexes. Exposure to hazardous ingredients can occur if spray mist is inhaled or glaze ingested and the ingredient dissolved out of the glass. Because of the chemical stability of the frit and its resistance to attack by acid or alkali, this is anticipated to occur very slowly.

3. Health Hazard Identification

Inhalation Excessive exposure may cause symptoms of chronic lung disease and lead poisoning

Ingestion The product is of low solubility in body fluids and it is likely to be of low toxicity

Eyes: May cause physical irritation and inflammation

Skin: The material is not a primary irritant, but as with any abrasive powder it may give rise to minor irritation

4. First Aid Measures: Inhalation Remove patient to fresh air, loosen tight clothing and seek medical attention

Ingestion: Do not induce vomiting, seek medical advice

Eyes Wash: immediately with copious amounts of water

Skin Wash: affected areas with water

5. Fire Fighting Measures: Extinguishing Media Suitable for surrounding fire conditions

Special Exposure hazard: In the event of a fire the product may emit harmful or toxic fumes

Personal protective equipment: Self contained breathing apparatus

6. Accidental Release Measures

Leaks & Spills: Use suitable vacuum equipment where reasonably practicable, otherwise damp down and scoop into a receptacle

Personal protective equipment: Respiratory protective equipment

7. Handling & Storage: Handling: Do not eat, drink, or smoke in areas where the material is used. Wash thoroughly after handling the material.

Storage: Store in dry area

8. Exposure Control/Personal protective Equipment

Engineering controls: Adequate ventilation should be provided so that Occupational

Exposure Limits are not exceeded. Local Exhaust Ventilation is normally recommended.

Personal protective equipment:

Where LEV is not practicable and exposure is likely to be excessive, approved respiratory protection to CEN standards prEN 140, 141, 143 or 149 should be worn. Protective gloves and overalls are recommended for prolonged contact.

9. Physical & Chemical properties.

Appearance & Odour Coloured fluid, odourless

Flash point (°C) Not applicable

Flammability Not applicable

Explosive properties Non-explosive

Oxidising properties None

Specific gravity: 1.7pH value insoluble in water

Melting point (°C) 982° C

10. Stability & Reactivity.

Chemical stability: The material is stable

Conditions/materials to avoid: None known

Hazardous decomposition products: None known

Hazardous polymerization products: None

11. Toxicology Information.

Acute toxicology LD50 Oral >2000mg/kg

LD50 dermal not known

LD50 inhalation not known

Health effects: Prolonged or repeated exposure above Occupational Exposure Standards may cause lead to accumulate in the body, in serious cases this may cause anaemia and damage to the kidneys and nervous system. Lead in the blood of pregnant women may affect the development of the unborn child. Persons exposed to lead compounds should have regular health checks which include lead in the blood monitoring

12. Ecological information: Ecotoxicity Not known

Persistence: Not known

13. Disposal: Dispose in accordance with current waste Disposal regulations (for UK - Control of Pollution (Special Waste) Regulations 1980). Landfill is the most appropriate method.

14. Transport Information.

UN/Sl No. Not classified

UN Class Not classified

Packing group Not classified

Road UK ADR Not classified

Sea IMO Not classified

Air ICAO: Not classified

15. Regulatory information

EC Supply Labelling: Toxic

R-Phrases R20/22 harmful by inhalation and if swallowed R33 danger of cumulative effect R61 may cause harm to the unborn child. S-Phrases S13 keep away from food, drink and animal feeding stuff

S20/21 when using do not eat, drink or smoke S22/23 do not breathe dust or spray

UK Occupational exposures limits* Mg/m³ 8 hr TWA % in product * refer to HSE Guidance note EH40

Lead compounds (as Pb)

Barium compounds 0.15 14-- 2.5

Notice

In accordance with HSE Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk

16. Other information

Please note the American Material Safety Data Sheet this sheet is derived from is available on request Duncan MSDS#101, MSDS#103, MSDS#105

References

COSHH ACOP HSC approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994

CHIP 96 Chemicals (Hazard Information and Packaging for Supply) Regulations 1996

CHIP SDS ACOPS HSC Approved Code of Practice for Safety data Sheets in accordance with regulation 6 of the CHIP regulations

HSE EH40 HSE Guidance note EH40 on Occupational Exposure Limits to be used in conjunction with the COSH regulations

Footnote**LIABILITY**

Such information is the best of Cromartie Hobbycraft Ltd' s knowledge and belief accurate at the date of publication, which is the date generated automatically on the day of printing of this document. However, no representation, warranty of guarantee is made as to its accuracy, reliability of completeness. It is the user's responsibility to satisfy itself as to the suitability and completeness of such information for their own particular use.

THIRD PARTY MATERIALS

Insofar as materials not manufactured or supplied by Cromartie Hobbycraft Ltd are used in conjunction with, or instead of Cromartie Hobbycraft Ltd materials, it is the responsibility of the customer itself to obtain from the manufacturer or supplier all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of Cromartie Hobbycraft Ltd materials in conjunctions with other materials.

17. National Legislation**UK Legislation**

SI1993/1746 Chemicals (Hazard Information and Packaging) Regulations 1993

Environmental Protection (Duty of Care) regulations 1992 SI 2839

Carriage of Dangerous goods by Road and Rail Regulations 1994

Control of pollution Act 1974

Environmental Protection Act 1990

Highly Flammable Liquids and Petroleum Spirit Regulations 1972

EH40 Occupational Exposure Limits

SI1988/1657 The Control of Substances Hazardous to Health Regulations

Note - This is not an exhaustive list and users should satisfy themselves that they comply with all relevant National Regulations

Important notes

Design CHIP-002

The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards.

Further reference can be made to our standard terms and conditions of sale, a copy of which is available on request.

23 May 2005

The Approved Supply List classifies chemicals and preparations according to the most dangerous component; a lead-containing glaze attracts a "Toxic" label, as lead on its own is toxic. This takes no account of the fact that the lead in Duncan glazes is made safe having been chemically stabilised by the "fritting" process. For more information please ask for Cromartie leaflets on lead in glazes.