

CTM POTTERS SUPPLIES

SAFETY DATA SHEETS

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information:

Trade name : G5; Leadless Transparent Matt

Company : CTM Potters Supplies
Unit 10A, Millpark Industrial Estate
White Cross Road
Woodbury Salterton
Nr. Exeter
EX5 1EL

Telephone : 01395-233-077
Fax : 01395-233-905

E-mail address : admim@ctmpotterssupplies.co.uk

Use of the Substance/Preparation : Ceramic coating suited for firing, for glass and ceramics.

2. HAZARDS IDENTIFICATION

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Prolonged inhalation of fine quartz dust may cause silicosis when the maximum admissible concentration at the work place is exceeded. Symptoms of a silicosis may be cough and chronic inflammation of the respiratory system. There is some evidence of an increased lung cancer risk to people already suffering from silicosis.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature:

Product contains: glass/frit
silicatic material
inorganic salt
metal oxide/hydroxide

Information on ingredients/Hazardous components:

quartz		Concentration	7% ~ 10%
CAS-No.	14808-60-7	EC-No.	238-878-4
zinc oxide		Concentration	3% ~ 5%
CAS-No.	1314-13-2	EC-No.	215-222-5
Symbol(s)	N	R-pharse(s)	R50/53
zirconium dioxide in glasses/pigments		Concentration	1% ~ 3%
CAS-No.	1314-23-4	EC-No.	215-227-2

See section 16 for text of risk phrases.

4. FIRST AID MEASURES

General advice:

Remove contaminated or saturated clothing.

Inhalation:

Take affected persons out into the fresh air.

Skin contact:

Wash with water and soap as a precaution.

Eye contact:

Immediately flush eye(s) with plenty of water.

Ingestion:

Have patient drink plenty of water in small sips.

Notes to physician:

No own experience available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

The product itself does not burn.

Extinguishing media which shall not be used for safety reasons:

None known.

Specific hazards during fire fighting:

None known.

Special protective equipment for fire-fighters:

Employ protective equipment commonly used in the event of fire.

Further information:

Water used to extinguish fire should not enter drainage systems, soil, or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Ensure adequate ventilation.
Wear personal protective equipment; see section 8.
Avoid dust formation.

Environmental precautions:

Prevent penetration into soil, stretches of water and drainage systems.

Methods for cleaning up:

Pick up mechanically and collect in a suitable container.
Avoid formation of dust.

Additional advice:

Dispose of contaminated material as waste in accordance with section 13.

7. HANDLING AND STORAGE

Handling

Safe handling advice:

Avoid production of dust. Do not breathe dust.

Advice on protection against fire and explosion:

No data available.

Storage

Requirements for storage areas and containers:

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

Further information:

Product is slightly water-pollutive. Observe the national and local regulations concerning handling and storage.

Advice on common storage:

No materials to be especially mentioned.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters:**

quartz			
CAS-No.	14808-60-7	EC-No.	238-878-4
Control parameters	0,1500 mg/m ³ (fine dust)		AGW (Germany)
zinc oxide			
CAS-No.	1314-13-2	EC-No.	215-222-5
	1,0000 mg/m ³ Smoke		AGW (Germany)
zirconium dioxide in glasses/pigments			
CAS-No.	1314-23-4	EC-No.	215-227-2
	1 mg/m ³ (total dust)	related to: as Zr	AGW (Germany)

Engineering measures:

Eventual aspiration in case of dusts. Technical protection measures have always priority over personal protection equipment.

Occupational exposure controls**Personal protective equipment:****Respiratory protection:**

No personal respiratory protective equipment normally required.

Hand protection:

Wear protective gloves made of the following materials: nitrile rubber.

Eye protection:

Wear basket-shaped glasses or safety goggles with side-shields.

Skin and body protection:

Safety shoes.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

Protective measures:

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance:**

Form powder
Colour white

Safety data:

Physical state solid

10. STABILITY AND REACTIVITY

Conditions to avoid: No dangerous reaction known under conditions of normal use.

Materials to avoid: none known.

Hazardous decomposition products: none known.

11. TOXICOLOGICAL INFORMATION

Skin irritation: Powder can cause localised skin irritation in folds of the skin or under tight clothing.
 Eye irritation: not known.
 Sensitisation: not known.

No results of animal experiments with the product available.

Acute oral toxicity:
 frits, chemicals LD50 rat: > 2.000,00 mg/kg

Other information:

Prolonged inhalation of fine quartz dust may cause silicosis when the maximum admissible concentration at the work place is exceeded. Symptoms of a silicosis may be cough and chronic inflammation of the respiratory system. There is some evidence of an increased lung cancer risk to people already suffering from silicosis.

12. ECOLOGICAL INFORMATION

Persistence and degradability:

Biodegradability: The methods for determining biodegradability are not applicable to inorganic substances.
 Physico-chemical removability: No data available.

Ecotoxicity effects:

Specific information for this product is not available.

Toxicity to fish:
 frits, chemicals LC50 Fish: > 1.000,00 mg/l / 96 h

Toxicity to daphnia:
 frits, chemicals EC50 Daphnia: > 100,00 mg/l / 48 h
 zinc oxide EC50 Daphnia: > 2,2 mg/l / 48 h

Toxicity to algae:
 frits, chemicals IC50 Algae: > 1.000,00 mg/l / 72 h

Further information on ecology:

Further information: Toxic to aquatic organisms.
 Do not allow entrance in sewage water, soil or stretches of water.
 May cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Product:

Dispose of as special waste in compliance with local and national regulations.
 Do not contaminate ponds, waterways or ditches with chemical or used container.
 In agreement with the waste code must be determined regional waste disposal authority or company.

Uncleaned packaging:

If there is product residue in the emptied container, follow directions for handling on the container's label.
 Dispose of as unused product.

14. TRANSPORT INFORMATION

Land transport ADR/RID/GGVSE (Germany):

Class 9
 Code M7
 Packaging group III
 Orange warning plate 90 / 3077

Description of the goods (Technical name):

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
 (zinc oxide)

Sea transport IMDG-Code/GGVSee

Class	9
UN-Number	3077
Packaging group	III
EmS	NONE

Proper technical name (Proper shipping name):

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(zinc oxide)

Air transport ICAO-TI/IATA-DGR

Class	9
UN-Number	3077
Packaging group	III

Proper technical name (Proper shipping name):

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(zinc oxide)

15. REGULATORY INFORMATION**Labelling according to EC Directives**

statutory basis/list 1999/45/EC

Symbol(s) N Dangerous for the environment.

R-phrases(s) R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s) S57 Use appropriate container to avoid environmental contamination.
S60 This material and its container must be disposed of as hazardous waste.

Major Accident Hazard Legislation 96/82/EC listing: Update: 2003
Dangerous for the environment (9b)

16. OTHER INFORMATION**Risk phrase (R phrase) texts:****zinc oxide:**

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further information:

Data sheet producing department: CTM Potters Supplies
Telephone: 01395-233-077

Disclaimer:

The information contained in this safety data sheet has been prepared using the best available information, however in view of technical developments, this may alter. 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. Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.