

**Safety Data Sheet**  
**CP 90304**

Safety Data Sheet dated 01/01/2022 version 2

(Dir. 91/155/EEC - Dir. 1999/45/EC)

**1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY**

Trade name: Zem Blue  
Trade code:  
Product type and use: 320720900019 (HS)  
Company: Liquid Glaze  
REF-SAN IZOLASYON SAN.TIC.LTD.STI  
Inkoy Mh. Peri Yolu Cd. No:19 MERKEZ / KUTAHYA  
Tel : +90 274 225 17 18  
Fax : +90 274 225 17 20  
E-Mail : refsan@refsan.com.tr  
Web : www.refsan.com.tr  
Tax Administrator : Çini V.D  
Tax Number : 734 008 9369

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical characterization:  
Iron cobalt chromite black spinel (CAS: 68186-97-0 EINECS: 269-060-5) > 1%  
Nickel iron chromite black spinel (CAS: 71631-15-7 EINECS: 275-738-1) > 1%  
Crystalline free silica (CAS 14808-60-7 EINECS: 238-878-4) 1% - 10%

Xn: R48/20  
STOT RE 1:H372

**3. HAZARDS IDENTIFICATION**

No specific hazards are encountered under normal product use.

**4. FIRST AID MEASURES**

Contact with skin:  
Wash with plenty of water and soap.  
Contact with eyes:  
Wash immediately with water for at least 15 minutes.  
Swallowing:  
Induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet.  
A suspension of activated charcoal in water, or liquid paraffin may be administered.  
Inhalation:  
Ventilate the premises. The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area. Should the patient feel unwell, OBTAIN MEDICAL ATTENTION.

**5. FIRE-FIGHTING MEASURES**

Recommended extinguishers:  
Water, CO2, Foam, Chemical powders, according to the materials involved in the fire.  
Extinguishers not to be used:  
None in particular.  
Risks arising from combustion:  
Avoid inhaling the fumes.  
Protective equipment:  
Use protection for the respiratory tract.

**6. ACCIDENTAL RELEASE MEASURES**

Measures for personal safety:  
Use gloves and protective clothing.  
Environmental measures:  
Limit leakages with earth or sand.  
If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.  
Cleaning methods:  
If the product is in a liquid form, stop it from entering the drainage system.  
Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.  
After the product has been recovered, rinse the area and materials involved with water.

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**7. HANDLING AND STORAGE**

- Handling precautions:  
Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.  
Do not eat or drink while working.
- Incompatible materials:  
None in particular.
- Storage conditions:  
Instructions as regards storage premises:  
Adequately ventilated premises.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Precautionary measures:  
Give adequate ventilation to the premises where the product is stored and/or handled.
- Respiratory protection:  
Not needed for normal use.
- Protection for hands:  
Not needed for normal use.
- Eye protection:  
Not needed for normal use.
- Protection for skin:  
No special precaution must be adopted for normal use.
- Exposure limit(s) (ACGIH):  
powders  
TLV TWA: 10 mg/mc (inhalable)  
TLV TWA: 3 mg/mc (respirable fraction)  
Chromium III, inorganic compounds  
TLV TWA: 0,5 mg/mc (Cr) - CAS: 7440-47-3

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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|-------------------------|---|
| Appearance and colour:  | a) scales/grains (frits)    b) dust (stains, colours, ground glazes)<br>c) mixture of grain and dust (compounds) violet |
| Odour:                  | odourless   |
| pH:                     | n.a.  |
| Melting point:          | a) >1000°C (stains)    b) 500°C-1000°C (colours, glazes, frits)   |
| Boiling point:          | n.a.  |
| Flash point:            | n.a. °C   |
| Solid/gas flammability: | n.a.  |
| Explosive properties:   | n.a.  |
| Oxidizing properties:   | n.a.  |
| Vapour pressure:        | n.a.  |
| Relative density:       | n.a.  |
| Solubility in water:    | insoluble   |

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**10. STABILITY AND REACTIVITY**

- Conditions to avoid:  
Stable under normal conditions.
- Substances to avoid:  
None in particular.
- Hazardous decomposition products:  
None.

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**11. TOXICOLOGICAL INFORMATION**

- The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.
- Set out below is the toxicological information relating to the main substances in the preparation.
- The product does not contain toxicologically relevant substances.

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**12. ECOLOGICAL INFORMATION**

Adopt good working practices, so that the product is not released into the environment.

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**13. DISPOSAL CONSIDERATIONS**

Recover if possible. In so doing, comply with the local and national regulations currently in force.

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**14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

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**15. REGULATORY INFORMATION**

1999/45/EC (Classification and Labelling), 2001/60/EC, 67/548/EEC, 2001/59/EC, 91/155/EC, 2001/58/EC

Special Provisions:

Safety data sheet available for professional user on request.

The preparation should not be considered as dangerous accordingly to dir. 88/379/EEC.

Where applicable, refer to the following regulatory provisions :

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**16. OTHER INFORMATION**

Paragraphs modified from the previous revision:

- 2. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

ACGIH - Treshold Limit Values - 2003 edition

ADR 2003 (ECE/TRANS/160, Vol I and II, and any corrigenda or amendment later published).

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

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