



MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME : Ceramic Colors, Ceramic Pigment

GENERAL USE : For ceramic & glass decoration

MANUFACTURE & EMERGENCY TELEPHONE NUMBER :

Izawa Pigment Co., Ltd.

Address : 2-34 Fujimi, Tajimi Gifu, Japan

Telephone No. +81-572-22-5008

responsibility for use of or reliance upon this information.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Not classified.

Human Health

May cause minor irritation on eye contact. May cause minor irritation on skin contact. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Environment : The product is not expected to be hazardous to the environment.

2.2. Label elements

Risk Phrases

NC Not classified.

Safety Phrases

S22 Do not breathe dust.

P13 Safety data sheet available for professional user on request.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition Comments

Material comprises ceramic colour/minerals/chemicals/binders of no significant specific hazard (in the amounts present).

Hazardous components

No hazardous ingredients



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Product No.	Color	C.I. GN	Chemical Composition	C.A.S. No.	% of Composition
SELECTION 35M		Frit , Chemicals	Si-B Frit K ₂ O·3Al ₂ O ₃ ·6SiO ₂ ·2H ₂ O	65997-18-4 12001-26-2	70-80% 20-30%
		Frit , Chemicals	Si-B Frit	65997-18-4	100%
		Frit , Chemicals	Si-B Frit	65997-18-4	80%
		Pigment Black 27	(Co-Fe)(Fe-Cr) ₂ O ₄	68186-97-0	20%

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation.

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Do not induce vomiting. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Contact physician if larger quantity has been consumed.

Skin Contact

Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye Contact

Immediately flush with plenty of water or eyewash solution for up to 10 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards . No unusual fire or explosion hazards noted.

5.3. Advice for firefighters

Special Fire Fighting Procedures .No specific firefighting procedure given.

Protective Measures In Fire . Use protective equipment appropriate for surrounding materials.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Avoid spreading dust or contaminated materials.

6.3. Methods and material for containment and cleaning up



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Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not eat, drink or smoke when using the product. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Store in closed original container in a dry place.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments : Total respirable Dust 4mg/m³ - 8hr TWA

8.2. Exposure controls

Protective Equipment : Engineering Measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory Equipment

No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m³.

Hand Protection

For prolonged or repeated skin contact use suitable protective gloves.

Eye Protection

Wear dust resistant safety goggles where there is danger of eye contact.

Hygiene Measures

Wash at the end of each work shift and before eating, smoking and using the toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Powder, dust

Odour Odourless

Solubility Insoluble in water

Relative Density 3 - 5

pH-Value, Conc. Solution 7

9.2. Other information



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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous Polymerization

Not relevant.

10.4. Conditions to avoid

Not known.

10.5. Incompatible materials

Materials To Avoid

Strong acids.

10.6. Hazardous decomposition products

Not known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological Information

No data recorded.

General Information

This product has low toxicity. Only large volumes may have adverse impact on human health.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

The product is not expected to be hazardous to the environment.

12.1. Toxicity

12.2. Persistence and degradability

Degradability:

The product solely consists of inorganic compounds which are not biodegradable.

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

General Information

When handling waste, consideration should be made to the safety precautions applying to handling of the



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product.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

ADR

Not dangerous goods



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IMDG

Not dangerous goods

IATA

Not dangerous goods

14.6 Special precautions for user

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship type :N/A

Pollution category :N/A

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Health and Safety at Work Act 1974.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Dangerous Preparations Directive 1999/45/EC. Dangerous Substance Directive 67/548/EEC. Regulation (EC) No 1907/2006 of the

European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation

(EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives

91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

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