

Section 1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1. Product Identifier

Trade name: 93 Series Range
Product type and use: Enamel Pigments (Leaded).

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use:
Ceramic & Glass decoration.

Uses advised against:
None.

1.3. Details of the supplier of the safety data sheet

Company:
Dove Screen services Ltd.
Unit A, Harvey Court,
Dovefields,
Uttoxeter,
Staffs. ST14 8HU

Competent person responsible for the safety data sheet:
Sales@dovescreen.co.uk

1.4. Emergency telephone number

+44 1889 562274 (09:00-17:00; GMT+01:00)

Section 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

Acute Tox 4, H302; Acute Tox 4, H332; STOT RE1, H372; Repr 1A, H360Df; Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410

2.2. Label elements



2.3. Other hazards

No other hazards.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical description: Ceramic Enamel

3.1. Substances

Identification	CAS	Concentration	(*) Classification Regalement 1272/2008
Lead Frit	65997-18-4	75-85 %	Acute Tox 4, H302; Acute Tox 4, H332; STOT RE1, H372; Repr 1A, H360Df; Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410

3.2. Mixtures

Chemical Nature Glass/Frit PLUS PIGMENTS

Section 4. FIRST AID MEASURES

4.1. Description of first aid measures

Contact with skin:

Wash off with soap and plenty of water.

Contact with eyes:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

Swallowing:

Do not induce vomiting.

Give nothing to eat or drink.

Inhalation:

Move injured person to rest in a ventilated and open area. Call the medical assistance and show them the package or label.

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

None

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

In case of accident or unwell ness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment: None

Section 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Not flammable product.

Recommended extinguishers:

CO₂, Foam, Chemical powders, according to the materials involved in the fire.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None

5.2. Special hazards arising from the substance or mixture

Avoid fume inhalation.

5.3. Advice for fire-fighters

Use suitable breathing equipment.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use gloves and protective cloths. In case of aerosol particles use breathing mask.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Keep away from drains and sinks, ground and well water. Clean spills with clay or sand. In case of leaks to natural waters, public drain, notify to the adequate authorities. Suitable material for taking up: absorbing material, organic, sand.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sans, earth, vermiculite or diatomaceous earth.

6.4. Reference to other sections See also section 8 and 13.

Section 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from animal or human food and beverages.

Incompatible materials:

None.

Buildings indications:

Keep buildings well ventilated.

7.3. Specific end use(s)

None in particular.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Contains no substances with professional exposure limit values.

8.2. Exposure controls

Eye protection:

Not required on normal use.

Always proceed with good working practice.

Skin protection:

Not required on normal use.

Always proceed with good working practice.

Hands protection:

Not required on normal use.

Always proceed with good working practice.

Respiratory protection:

Not required on normal use.

Always proceed with good working practice, avoid generating dust or respiratory protection may be required.

Protective Measures:

When using do not eat, drink or smoke

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder
Colour:	VARIOUS
Odour:	Odourless.
Odour threshold:	N. A. /N. D.
pH:	Not determinate.
Initial boiling point:	N. A. / N. D.
Melting point:	Above 500°C.
Upper/lower flammability or explosive limits:	N. A. / N. D.
Solid/gas flammability:	N. A. / N. D.
Flash point:	N. A. / N. D.
Decomposition temperature:	N. A. / N. D.
Evaporation rate:	N. A. / N. D.
Vapour pressure:	N. A. / N. D.
Vapour density:	N. A. / N. D.
Viscosity:	N. A. / N. D.
Explosive properties:	N. A. / N. D.
Oxidising properties:	N. A. / N. D.
Relative density:	Not determinate.

Solubility in water: Almost insoluble.
Lipid solubility: Almost insoluble.

Section 10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

None.

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

None.

Section 11. TOXICOLOGICAL INFORMATION

Acute toxicology

LD50 Oral (rat)

Not known

LD50 Dermal

Not known

LC50 Inhalation

Not known

Health effects

Prolonged or repeated exposure above occupational exposure standards may cause lead to accumulate in the body. In serious cases may cause anaemia and damage to the kidneys, central system and impair reproductive fertility. Lead in the blood of pregnant may affect the development of the unborn child. Persons exposed to lead compounds should have regular health checks which should include lead in blood monitoring.

Section 12. ECOLOGICAL INFORMATION

12.1. Toxicity

The available toxicological information shows that this product is not toxic and not harmful, and no risk notification is required

12.2. Persistence and degradability

None.

12.3. Bio accumulative potential

N. A.

12.4. Mobility in soil

N. A.

12.5. Results of PBT and vPvB assessment

N. A.

12.6. Other adverse effects

None.

Section 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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

Section 14. TRANSPORT INFORMATION

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

N. A.

14.3. Transport hazard class (es)

N. A.

14.4. Packing Group

N. A.

14.5. Environmental hazards

N. A.

14.6. Special Precautions for User

N. A.

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

Environmental Pollutant:

No.

Section 15. REGULATORY

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

Directive. 98/24/EC (Risks related to chemical agents at work).

Directive. 2000/39/EC (Occupational exposure limit values)

Directive. 2006/8/CE

Regulation (CE) n. 1907/2006 (REACH)

Regulation (CE) n.1272/2008 (CLP)

Regulation (CE) n.790/2009

Where applicable, refer to the following regulatory provisions.

Directive 96/82/EC ('Control of major-accident hazards')

Directive 2003/105/CEE (Activities linked to risks of serious accidents) and subsequent amendments.

Directive 76/769/EEC (Marketing and use of certain dangerous substances and preparations)

15.2. Chemical Safety Assessment

No.

Section 16. OTHER INFORMATION

Main bibliographic sources:

Registration Dossier of substance frits, chemicals, according to Regulation 1907/2006 (REACH) Frit Consortium, 2010.

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-Threshold Limit Values- 2004 edition

Acronyms used:

CLP	Classification, Labelling and Packaging.
PBT	Persistent Bioaccumulative and Toxic.
vPvB	Very Persistent and very Bioaccumulative.
N. A.	Not applicable.
N. D.	Not Data available.
IBC	Bulk Containers.

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Issue Date 02/05/19

93 Series Range

MATERIAL SAFETY DATA SHEET According to Regulation (CE) 1907/2006

The information given in this Material Safety Data Sheet has been drafted in accordance with Regulation (EU) No 453/ 2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006 Parliament amending Parliament and of the Council of 18 December 2006 concerning the Registration ,Evaluation, Authorisation and restriction of Chemicals (REACH), establishing an European Agency for chemicals is created, amending Directive 1999/45/EC and Regulation (EEC) No 793/93 and Regulation (EC) No 1488/ 94 as well as Council Directive 76/769/EEC and Directives 91/155 repealing/ EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Material Safety Data Sheet is based on current knowledge and on current EC and national laws, taking the consideration that the working conditions of the users is beyond our knowledge and control. The product should not be used for purposes other than those specified without a written instruction of how to handle. It is always your responsibility to take appropriate measures in order to meet the requirements of the laws.