



SAFETY DATA SHEET

M.F. 10/1 Flux - Drum Dried

Section 1: Identification of the substance/preparation and the company

1.1 Product Identifier:

Product name: M.F. 10/1 Flux - Drum Dried
Product No: 447754/P1

1.2 Applications

Identified uses: Component used in the formulation of ceramic frits glazes and inorganic pigments used for the manufacture of tableware and sanitary ware and other ceramic articles.

1.3 Details of the supplier of the safety data sheet

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E-mail: sales@rbhltd.com

1.4 Emergency telephone number:

Office Hours: +44 (0) 1782 622666

Section 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation)

Physical Hazards	Not Classified
Health Hazards	STOT RE 1 – H372
Environmental Hazards	Not Classified

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Section 4: First-aid measures

4.1. Description of first aid measures

Inhalation

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

If swallowed

Do not induce vomiting. Give a few small glasses of water or milk to drink. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues.

Skin contact

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

Eye contact

Rinse with water. Get medical attention if any discomfort continues.

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

General information No data available

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use fire-extinguishing media suitable for the surrounding fire

5.2. Special hazards arising from the substances or mixture

Specific hazard during firefighting : Dust may form explosive mixture in air. No unusual fire or explosion hazards noted.

5.3. Advice for fire fighters

Special protective equipment for : N/a

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firefighters

Further information

: Use protective equipment appropriate for surrounding materials.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Environmental precautions: Avoid spreading dust or contaminated materials.

6.3. Methods and material for containment and cleaning up

Method for cleaning up: Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like.

6.4. Reference to any 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 procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions/ packing material : Store in tightly-closed, original container. Keep container dry.

7.3. Specific end use(s)

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Section 8: Exposure controls/Personal protection

8.1. Control parameters

Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m³
 WEL = Workplace Exposure Limit.

8.2 Exposure controls

Personal protection equipment

- Industrial hygiene measures: Wash hands at the end of each work shift and before eating, smoking and using the toilet.
- Respiratory protection: Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. When spraying, wear a respirator fitted with the following cartridge: Particulate filter, type P3.
- Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
- Eye/face protection: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Dust-resistant, chemical splash goggles.
- Hygiene Measures: Wash hands at the end of each work shift and before eating, smoking and using the toilet.
- Engineering measures: Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Protective measures



Environmental exposure controls

General advice: No information available

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Section 9: Physical and chemical properties

9.1. Information on basic physical and chemicals properties

Appearance:	Powder
Colour:	Buff
Odour:	Odourless
Odour threshold:	No data available.
pH:	Not determined
Melting point:	> 600 °C
Boiling point:	No data available.
Flash point:	No data available.
Evaporation rate:	No data available.
Flammability	No data available.
Upper/lower flammability or explosive limits:	Not applicable
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Density:	No data available.
Solubility:	Insoluble in water.
Partition coefficient n-octanol/water:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	Not applicable.
Oxidising properties:	Not applicable.

9.2. Other information

No additional data available

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Section 10: Stability and reactivity

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Not relevant.

10.4. Conditions to avoid

Not known.

10.5. Incompatible materials

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Not known.

Section 11: Toxicological information

11.1 Information on toxicological effects

(a) Acute toxicity

LD50 Oral : No data available

LC50 Inhalation: No data available

LD50 Dermal: No data available

(b) Skin corrosion/irritation

No data available

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(c) Serious eye damage/ eye irritation

May cause temporary eye irritation.

(d) Respiratory or skin sensitisation

Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica.

(e) Germ cell mutagenicity

No data available

(f) Carcinogenicity

No data available

(g) Reproductive toxicity

No data available

(h) Specific target organ toxicity – Single exposure

Prolonged/ massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica.

(i) Specific target organ toxicity – Repeated exposure

In June 2003 SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and apparently, not in persons without silicosis exposed to silica dusts in quarries and the ceramic industry. Therefore preventing the onset of silicosis will reduce the cancer risk.....(SCOEL.SUM Doc 94-final, June 2003)

(j) Aspiration hazard

No data available.

(k) Likely routes of exposure

- Inhalation
- Ingestion
- Skin
- Eyes

(l) Signs and symptoms of exposure

Not data available

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(m)Additional information

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003).

So there is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required (see section 16 below).

Health & Safety Executive (specific for UK):

Detailed reviews of the scientific evidence on the health effects of crystalline silica have been published by HSE (Health and Safety Executive, UK) in the Hazard Assessment Documents EH75/4 (2002) and EH75/5 (2003). The HSE points out on its website that "Workers exposed to fine dust containing quartz are at risk of developing a chronic and possibly severely disabling lung disease known as "silicosis". In addition to silicosis, there is now evidence that heavy and prolonged workplace exposure to dust containing crystalline silica can lead to an increased risk of lung cancer. The evidence suggests that an increased risk of lung cancer is likely to occur only in those workers who have developed silicosis.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Section 12: Ecological information

12.1. Toxicity

There are no data on the ecotoxicity of this product.

12.2. Persistence and biodegradability

No information available as to the persistence and degradability of this product.

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Not available

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12.5. Results of PBT and vPvB assessment

Not available.

12.6. Other adverse effects

Not available.

Section 13: Waste disposal information

13.1. Waste treatment methods

General Information

When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal Methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority

Section 14: Transport information

14.1. UN number: n/a

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID, ADN).

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:

No

14.6. Special precautions for user

No information available

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

No information available

Section 15: Regulatory information

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

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National regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). Control of Substances Hazardous to Health Regulations 2002 (as amended).

EU legislation

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) (as amended).

Guidance

Workplace Exposure Limits EH40.
Safety Data Sheets for Substances and Preparations.

15.2. Chemical safety assessment

The supplier has not performed a chemical safety assessment on this substance

Section 16: Additional information

16.1 Indication of the changes made to the previous version of the SDS.

Revision Comments:	Update to REACH format.
Revision Date:	04/11/2015
Revision No:	2
Safety Data Sheet Status:	Full
Date:	4/11/2015

Hazard Statements in Full

H372 Causes damage to organs through prolonged or repeated exposure if inhaled.
H372 Causes damage to organs (Respiratory system, lungs) through prolonged or repeated

Social Dialogue on Respirable Crystalline Silica and Good Practices Guide

A multi-sectoral social dialogue agreement on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products Containing it was signed on 25 April 2006. This autonomous agreement, which receives the European Commission's financial support, is based on a Good Practices Guide. The requirements of the Agreement came into force on 25 October 2006.

The Agreement was published in the Official Journal of the European Union (2006/C 279/02). The text of the Agreement and its annexes, including the Good Practices Guide, are available from <http://www.nepsi.eu> and provide useful information and guidance for the handling of products containing respirable crystalline silica. Literature references are available on request from EUROSIL, the European Association of Industrial Silica Producers.

References:

Crystalline Silica and Health Website (Consortium):

<http://www.crystallinesilica.eu/content/welcome>

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Agreement on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products containing it (2006/C 279/02)

<http://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX:42006A1117%2801%29>

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