



CAPITAL REFRACTORIES

## SAFETY DATA SHEET

according to Federal Register

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D10F

Revision 5

Revision date 2015-06-12

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Product name	D10F
Product name	, D10F, D10X & D10FX.

## 1.3. Details of the supplier of the safety data sheet


Company	Capital Refractories Inc.
Address	1548 Mims Avenue SW Birmingham AL 35211 U.S.A.
Web	www.capital-refractories.com
Telephone	205 443 7963
Fax	205 929 0966
Email	info@capital-refractories.com
Email address of the competent person	stephen.lee@capital-refractories.com

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

2.1.1. Classification - EU	Xi; R36/38 Symbols: C: Corrosive. Xi: Irritant.
Main hazards	Irritating to eyes and skin.
2.1.2. Classification - GHS	STOT RE 2: H373;

## 2.2. Label elements

Hazard pictograms	
Signal Word	Warning
Hazard Statement	STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure .
Precautionary Statement: Prevention	P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
Precautionary Statement: Response	P314 - Get medical advice/attention if you feel unwell.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to

## 2.3. Other hazards

Other hazards	Avoid raising dust.
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## SECTION 3: Composition/information on ingredients

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## 3.2. Mixtures

## 67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Aluminium Oxide		1344-28-1	215-691-6		50 - 60%		
Aluminium Phosphate		7784-30-7	232-056-9		1 - 10%	C; R34	
Mullite		1302-93-8	215-113-2		1 - 10%		
Glass Matrix		60676-86-0	262-373-8		1 - 10%		
Kaolin		1332-58-7	310-194-1		1 - 10%		
Oxalic acid	607-006-00-8	144-62-7	205-634-3		0.5 - 1%	Xn; R21/22	

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
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Glass Matrix		60676-86-0	262-373-8		1 - 10%		
Kaolin		1332-58-7	310-194-1		1 - 10%	STOT RE 1; H372;	

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

Inhalation	May cause irritation to mucous membranes. Move the exposed person to fresh air.
Eye contact	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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## 5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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## 5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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## SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area.
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## 6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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## 6.3. Methods and material for containment and cleaning up

	Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

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## 7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
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## 7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.
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## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## Exposure Limit Values

Aluminium Oxide	ACGIH TLV TWA: 10 mg/m <sup>3</sup> (E) Notations: A4 OSHA PEL 8hr TWA mg m3: -	ACGIH TLV STEL: - OSHA PEL 8hr TWA ppm: - Skin Designation: -
Kaolin	ACGIH TLV TWA: 2 mg/m <sup>3</sup> (E, R) Notations: A4 OSHA PEL 8hr TWA mg m3: 15	ACGIH TLV STEL: - OSHA PEL 8hr TWA ppm: - Skin Designation: -
Oxalic acid	ACGIH TLV TWA: 1 mg/m <sup>3</sup> Notations: - OSHA PEL 8hr TWA mg m3: 1	ACGIH TLV STEL: 2 mg/m <sup>3</sup> OSHA PEL 8hr TWA ppm: - Skin Designation: -

## 8.2. Exposure controls

Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Wear protective clothing.
Eye / face protection	In case of splashing, wear: . Approved safety goggles.
Skin protection - Hand protection	Chemical resistant gloves (PVC).

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

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## 9.1. Information on basic physical and chemical properties

State	Paste
Color	Grey
Odor	Odorless
Odour threshold	No data available
pH	No data available
Melting point	No data available
Freezing Point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

## 9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
'OC (Volatile organic compounds)	No data available

## SECTION 10: Stability and reactivity

## 10.2. Chemical stability

	Stable under normal conditions.
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## SECTION 11: Toxicological information

## 11.1.4. Toxicological information

	No data available
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## SECTION 12: Ecological information

## 12.1. Toxicity

	No data is available on this product.
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## 12.2. Persistence and degradability

	Not readily biodegradable.
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## 12.3. Bioaccumulative potential

## Partition coefficient

	D10F No data available	Aluminium Oxide No data available
	Mullite No data available	Kaolin No data available

## SECTION 13: Disposal considerations

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## General information

	Dispose of in compliance with all local and national regulations.
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## SECTION 14: Transport information

## Further information

	The product is not classified as dangerous for carriage.
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## SECTION 15: Regulatory information

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

Regulations	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication. 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.
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## SECTION 16: Other information

## Other information

Revision	This document differs from the previous version in the following areas: . 1 - Product Use. . 2 - 2.1.2. Classification - GHS. . 2 - Hazard pictograms. . 2 - Signal Word. . 2 - Precautionary Statement: Prevention. . 2 - Precautionary Statement: Response. . 2 - Precautionary Statement: Disposal. . 9 - 9.1. Information on basic physical and chemical properties (State). . 9 - 9.1. Information on basic physical and chemical properties (Odour threshold). . 12 - 12.1. Toxicity. .
Text of risk phrases in Section 3	R21/22 - Harmful in contact with skin and if swallowed. R34 - Causes burns.
Text of Hazard Statements in Section 3	STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure .

## Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
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