

SAFETY DATA SHEET (SDS)

Dura-Fry®



1 – IDENTIFICATION

Product Identifier: Dura-Fry®
Synonyms: none
Chemical Family: blend
Manufacturer: DuraFry Solutions International LLC
8414 Falls of Neuse Road
Suite 206
Raleigh NC 27615
(919) 521-8700
(919) 349-5055 – emergency phone number
Recommended use: filter aid, flow agent
Restrictions on use: none identified

2 – HAZARD(S) IDENTIFICATION

GHS Classification: not classified as a hazardous substance under the GHS, or U.S. OSHA 1910, 1200, the EU CLP Regulation or WHMIS
Label Elements: no labeling required
Other Hazards: none

This Safety Data Sheet has been provided for informational purposes only. Since the product is not classified as hazardous, according to 29CFR 1910. 1200, The Canadian WHMIS regulation, the GHS and Article 31 of the REACH Regulation (EC) 1907/2006 there is no obligation to provide an SDS for this material.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	CAS#	EINECS#	GHS Classification	%
Magnesium Silicate	1343-88-0	215-681-1	not classified as hazardous	>50.00
Diatomaceous Earth	61790-53-2	-	not classified as hazardous	>40.00
FDA Approved Flow Agent	proprietary	proprietary	not classified as hazardous	<10.00

See Section 16 for further information on EU and GHS Classification.

4 – FIRST-AID MEASURES

Eyes:	Rinse immediately with plenty of water and seek medical attention if necessary.
Skin:	No first aid should be needed. Wash with soap and water. Get medical attention should irritation develop.
Inhalation:	No first aid should be needed. If irritation develops, remove person to fresh air. Get medical attention should irritation develop.
Ingestion:	No first aid should be needed. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention should irritation develop.
Symptoms and Effects, Acute and Delayed:	Little or no health hazard. May cause mild, mechanical (abrasive) irritation to the eyes, skin and respiratory tract. <i>Indication of any immediate medical attention and special treatment needed – none.</i>

5 – FIRE-FIGHTING MEASURES

Suitable extinguishing Media:	Dura-Fry® is nonflammable. Use fire-extinguishing media appropriate for surrounding materials.
Unusual Fire and Explosion Hazards:	none
Hazardous Decomposition Products:	none
Fire-Fighter Special Equipment and Precautions:	None. Use procedures and equipment appropriate for surrounding materials.

6 – ACCIDENTAL RELEASE MEASURES

Cleanup Instructions:	<p>Wear appropriate protective equipment. Avoid creating and breathing dust.</p> <p>Avoid unintentional release into the environment.</p> <p>Sweep or vacuum. The use of a sweeping compound/dust suppressant is suggested. Dampening with water can reduce dust.</p> <p>Refer to Section 8 for protective equipment. Refer to Section 13 for disposal guidance.</p>
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7 – HANDLING AND STORAGE

Safe Handling Precautions: Avoid contact with eyes. Avoid creating and breathing dust.

Safe Storage: Keep containers closed when not in use.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Magnesium Silicate (as particulates not otherwise specified): 5 mg/m³ (respirable) 8-hour TWA U.S. OSHA PEL
3 mg/m³ (respirable) 8-hour TWA ACGIH TLV
15 mg/m³ (total) TWA U.S. OSHA PEL

Cellulose 5 mg/m³ (respirable) 8-hour TWA U.S. OSHA PEL
10 mg/m³ (respirable) 8-hour TWA ACGIH TLV
15 mg/m³ (total) TWA U.S. OSHA PEL

FDA Approved Binder: none established

Refer to local regulations for specific requirements.

EXPOSURE CONTROLS

Engineering Controls: Use with adequate general or local ventilation to minimize airborne exposures.

Eye/Face Protection: Follow facility requirements. Safety glasses with side shields should be used if there is a potential for chemical to get into eyes. Dust goggles recommended for dusty conditions.

Skin Protection: none required

Respiratory Protection: No respiratory control is needed if airborne workplace concentrations of chemical are below recommended limits. If the airborne exposure levels are excessive, a respirator approved by the local authority for the conditions of use (NIOSH in the U.S.) and standards (ANSI Z88.2 in the U.S.) and good industrial hygiene practice.

Protective Clothing: none required under normal use and conditions

Work Hygiene: no special requirements

9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: solid
Appearance: solid powder
Odor: odorless
Boiling Point: not applicable
Melting Point: 1910°C (3470° F) (magnesium silicate)
Relative Density: not determined

Solubility in water:	127-268 mg/L (expressed as total oxides) @30° C (magnesium silicate)
pH:	7.0 – 9.5
Percent Volatile:	0%
Partition Coefficient::	n-octanol/water: not applicable
Auto Ignition Temperature:	none
Decomposition Temperature:	none
Flammability Limits in Air	
Upper:	none
Lower:	none
Flammability (solid/gas):	none
Flash Point; method:	none
Explosive Properties:	none
Oxidizing Properties:	none

10 – STABILITY AND REACTIVITY

Stability:	stable, non-reactive
Chemical Stability:	stable under normal conditions
Conditions to Avoid:	none known
Hazardous Decomposition Products:	none expected

11 – TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:	<p>Eye: may cause temporary discomfort</p> <p>Skin: no hazardous effects expected</p> <p>Skin Absorption: no evidence of adverse effects</p> <p>Ingestion: may cause gastrointestinal discomfort if ingested in large quantities</p> <p>Inhalation: no hazardous effects expected</p> <p>Chronic Toxicity: no adverse effects expected</p>
Acute Toxicity Data:	Magnesium Silicate: LD50 oral rat >5000 mg/kg. LD50 dermal rabbit >2000 mg/kg (no adverse effects were observed at maximum dose). LC50 inhalation rat >20 mg/L/1 hour (no adverse effects were observed).
Skin Corrosion/Irritation:	Magnesium Silicate: not irritation to rabbit skin
Eye Irritation:	not an irritant (rabbit) (OECD 405)
Skin Sensitization:	Magnesium Silicate: not a human skin sensitizer
Respiratory Sensitization:	no data available – not expected to be a human respiratory sensitizer
Mutagenicity:	Magnesium Silicate: based on data from a supporting substance, this material is not expected to cause germ cell mutagenicity
Carcinogenicity:	Magnesium Silicate: This material is not listed as a potential carcinogen by IARC or EU CLP Annex VI. Based on data from

similar materials, this material is not expected to increase the risk of cancer.
as a carcinogen.
Developmental/ Reproductive Toxicity: Magnesium Silicate: Based on data from similar materials material is not expected to cause adverse effects on reproduction or development.
Specific Target Organ Toxicity (single exposure): Magnesium Silicate: No adverse effects were observed in a acute inhalation toxicity study.
Specific Target Organ Toxicity (repeated exposure): Magnesium Silicate: Based on data from similar materials, this material is not expected to cause toxic effects.

12 – ECOLOGICAL INFORMATION

Toxicity: Magnesium Silicate: Based on test data for a similar substance, this material is not expected to be toxic to aquatic organisms.
Persistence and Degradability: Biodegradation is not applicable for inorganic substances
Bioaccumulative Potential: not expected to bioaccumulate
Mobility in Soil: none expected
Other Adverse Effects: : none known

13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of product in accordance with applicable federal, state and local regulations.
Recommended Cleansing Agent: water

14 – TRANSPORT INFORMATION

U.S. Dept. of Transportation (DOT): not regulated
International Maritime Dangerous Goods (IMDG): not regulated
EU ADR/RID: not regulated

15 – REGULATORY INFORMATION

FEDERAL REGULATIONS

EPA SARA 311/312 not hazardous

Hazard Classification:

EPA SARA 313 This product contains the following chemicals subject to annual release reporting requirements under SARA Title III, Section 313 (40 CFR 372): none

Protection of Stratospheric Ozone: This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

CERCLA Section 103: This product is not subject to CERCLA spill reporting requirements. Many states have more stringent release reporting requirements. Report spills when required under federal, state and local regulations.

STATE REGULATIONS

California Proposition 65: This product does not contain any component(s) currently on California list of Known Carcinogens and Reproductive Toxins.

INTERNATIONAL REGULATIONS

Canadian WHMIS: not a controlled product

CHEMICAL INVENTORIES

US TSCA: All of the components of the material are listed on the Toxic Substances Control Act Chemical Substances Inventory or are Exempt.

Canadian CEPA: All of the components are listed on the Canadian DSL or are exempt.

EU EINECS: All of the components are listed on the EINECS inventory or are exempt.

Australia: All of the components are listed on the AICS inventory or are exempt.

China: All of the components are listed on the Chinese chemical inventory or are exempt.

Philippines: All of the components are listed in the Philippine inventory.

New Zealand: All of the components are listed on the New Zealand Inventory of Chemicals.

Korea: All of the components are listed on the Korean Existing Chemicals Inventory.

Japan: All of the components are listed on the Japan Inventory of existing Chemicals.

16 – OTHER INFORMATION

International Numbering System (INS) number:	553i
European Union E number:	E553a(i)
GHS/CLP Hazard Classes and Statements for Reference (see sections 2 & 3):	none

Prepared by: Product Safety & Regulatory Manager

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CHEMICAL EMERGENCY TELEPHONE 919-349-5055

All information, recommendations, and suggestions appearing herein concerning our product is based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by DuraFry Solutions International LLC as to the effects of such use; the results to be obtained or the safety and toxicity of the product nor does DuraFry Solutions International LLC assume any liability arising out of the use, by others, of the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.