



SAFETY DATA SHEET

1	IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
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Product name: Flexguard End Dip Mix

Supplier:

Federal-Mogul Corporation, Manchester International
Office Centre
Styal Road, Manchester M22 5TN
England
Tel: +44 (0) 161 955 5200
Fax: +44 (0) 161 955 5204

Emergency telephone:

24hr EP (INFOTRAC): 1-800-535-5053
International: (001) 352-323-3500

Intended use: Fray Resistant End Dip Mix

2	HAZARDS IDENTIFICATION
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The product has been classified according to the legislation in force.

Classification: | Carc. Cat. 3; R40 | R43 |

The full text for all R-phrases is displayed in Section 16.

Potential health effects

Inhalation: May cause irritation to mucous membrane and respiratory system. May cause allergic respiratory reaction.

Eye contact: May irritate eyes. Exposed may experience eye tearing, redness, and discomfort.

Skin contact: May cause sensitization by skin contact.

Ingestion: May irritate and cause stomach pain, vomiting and diarrhoea.

Other health effects: Limited evidence of a carcinogenic effect. Exposure to formaldehyde may cause respiratory sensitization in some individuals or aggravate pre-existing asthmatic conditions. Exposure to airborne concentrations of formaldehyde in excess of 0.1 ppm may cause discomfort in the stomach and pharynx and irritation of the eyes, nose and throat of some individuals. Sensitisation may also occur in some individuals.

Potential physical / chemical effects: This product is not flammable.

Environment: The environmental hazard of the product is considered to be limited.

3	COMPOSITION/INFORMATION ON INGREDIENTS
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Chemical name	EC No.	CAS-No.	Concentration *	Classification	Notes
Carbon black	215-609-9	1333-86-4	1 - 2%	-	-
Formaldehyde	200-001-8	50-00-0	1 - 2%	T;R23/24/25, C;R34, Carc. Cat. 3;R40, R43	-

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The full text for all R-phrases is displayed in Section 16.

4 FIRST-AID MEASURES

Inhalation: Move injured person into fresh air and keep person calm under observation. Get medical attention.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if irritation develops and persists.

Skin contact: Rinse immediately with plenty of water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Ingestion: Rinse mouth thoroughly with water and give large amounts of milk or water, if person is conscious. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

Extinguishing media: This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

Inappropriate extinguishing media: None.

Special fire fighting procedures: Use standard firefighting procedures and consider the hazards of other involved materials.

Unusual fire & explosion hazards: By heating and fire, irritating vapours/gases may be formed.

Hazardous combustion products: Carbon dioxide, Carbon monoxide

Protective measures: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid inhalation of vapours and contact with skin and eyes. See Section 8 for personal protective equipment.

Spill cleanup methods: Absorb spillage with suitable absorbent material. Flush area with plenty of water. Collect in containers and seal securely. Containers must be labeled.

Environmental precautions: Do not allow to enter drains, sewers or watercourses.

Notification procedures: Inform authorities if large amounts are involved.

7 HANDLING AND STORAGE

Handling: Should be handled in closed systems, if possible. Avoid inhalation of vapours and contact with skin and eyes. Do not taste or swallow. Persons susceptible for allergic reactions should not handle this product. Wash thoroughly after handling. Observe good industrial hygiene practices.

Storage: Store in closed original container in a dry place. Store away from incompatible materials.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values:

Chemical name	Source	Type	Workplace exposure limits	Notes
Carbon black	EH40/2005	STEL	7 mg/m ³	
Carbon black	EH40/2005	TWA	3.5 mg/m ³	
Formaldehyde	EH40/2005	STEL	2.5 mg/m ³ 2 ppm	
Formaldehyde	EH40/2005	TWA	2.5 mg/m ³ 2 ppm	

Engineering controls: Should be handled in closed systems, if possible. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

Respiratory protection: Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Respiratory protection may be required. Use respiratory equipment with combination filter, type AX/P2.

Eye protection: Wear approved safety goggles.

Hand protection: Chemical resistant gloves. Nitrile gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Skin protection: Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures: Always observe national occupational health and hygiene requirements including requirements for medical surveillance. Cleaning of personal protective equipment should be done with appropriate special equipment. Avoid smoking, eating, or drinking and storage of tobacco, food and drinks in work areas and areas where there is a risk of contamination from the substances and product.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Colour: Black

Odour: None

Odour threshold: No data available.

pH: No data available

Melting point: No data available.

Freezing point: No data available.

Boiling Point: No data available.

Relative density: 1.1 - 1.4 (23°C)

Vapour pressure: No data available.
Vapour density (air=1): No data available.
Evaporation rate: No data available.
Solubility in water: Soluble
Solubility (other): No data available.
Partition coefficient (n-octanol/water): No data available.
Viscosity: 10.000 mPa.s
Volatile organic compounds (VOC): No data available.
Flash point: No data available.
Autoignition temperature: No data available.
Flammability limit - lower(%): No data available.
Flammability limit - upper (%): No data available.
Explosive properties: No data available

10	STABILITY AND REACTIVITY
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Stability: Stable under normal temperature conditions and recommended use.

Conditions to avoid: Freezing.

Incompatible materials: Strong oxidizing agents. Strong bases.

Hazardous decomposition products:

At elevated temperatures:	Carbon dioxide, Carbon monoxide
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Possibility of hazardous reactions: Will not occur.

11	TOXICOLOGICAL INFORMATION
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Specified substance(s)

Acute toxicity:

Chemical name	Test results
Formaldehyde	Dermal LD50 (Rabbit): 270 mg/kg
Formaldehyde	Oral LD50 (Rat): 100 mg/kg
Formaldehyde	Inhalation LC50 (Rat): 203 mg/m ³

Inhalation: May cause irritation to mucous membrane and respiratory system. May cause allergic respiratory reaction.

Eye contact: May irritate eyes.

Skin contact: May cause irritation.

Ingestion: Ingestion may cause vomiting, nausea, diarrhoea or other systemic effects.

Sensitisation: May cause sensitization by skin contact.

Carcinogenicity: Limited evidence of a carcinogenic effect.

Listed carcinogens:

Chemical name	IARC	NTP	OSHA	ACGIH
Formaldehyde	1	Listed	Listed	A2
Carbon black	2B	Not listed	Not listed	A3

IARC: 1 = Carcinogenic to Humans; 2A = Probably Carcinogenic to Humans; 2B = Possibly Carcinogenic to Humans; 3 = Not classifiable as to carcinogenicity to humans; 4 = Probably not carcinogenic to humans; Not listed = Not evaluated by IARC.

ACGIH: A1 = Confirmed Human Carcinogen; A2 = Suspected Human Carcinogen; A3 = Confirmed Animal Carcinogen; A4 = Not classifiable as a human carcinogen; A5 = Not suspected to be a human carcinogen; Not listed = Not evaluated by ACGIH.

Mutagenesis: No data available.

Reproductive toxicity: No data available.

Other effects: Exposure to airborne concentrations of formaldehyde in excess of 0.1 ppm may cause discomfort in the stomach and pharynx and irritation of the eyes, nose and throat of some individuals. Sensitisation may also occur in some individuals.

12 ECOLOGICAL INFORMATION

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

Mobility: The product is soluble in water.

Persistence and degradability: No data available.

Bioaccumulation potential: No data available.

Other adverse effects: The product contains volatile organic compounds which have a photochemical ozone creation potential.

13 DISPOSAL CONSIDERATIONS

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

Disposal methods: Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

European waste codes

Unused product: 16 03 05*

14 TRANSPORT INFORMATION

ADR/RID Not regulated.

IMDG Not regulated.

IATA Not regulated.

15 REGULATORY INFORMATION

Contains: Formaldehyde



Harmful.

R40; Limited evidence of a carcinogenic effect. R43; May cause sensitization by skin contact.

S24/25; Avoid contact with skin and eyes. S36/37; Wear suitable protective clothing and gloves. S60; This material and its container must be disposed of as hazardous waste.

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. Pregnant women should not work with the product, if there is the least risk of exposure.

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OTHER INFORMATION

Wording of the R-phrases in sections 2 and 3: R23; Toxic by inhalation. R24; Toxic in contact with skin. R25; Toxic if swallowed. R34; Causes burns. R40; Limited evidence of a carcinogenic effect. R43; May cause sensitization by skin contact.

Inventory status: All ingredients are either listed or exempt from listing on EINECS/ELINCS.

Issue date: 04-Dec-2012

Supercedes date:

SDS No.: FlexGuard End Dip Mix_EU

Disclaimer: The information provided on this data sheet was abstracted from supplier safety data sheets and standard references in occupational health and toxicology. Federal-Mogul makes no representation or warranty with respect to the information obtained from such references. The information is however, as of the date provided, true and accurate to the best of Federal-Mogul's knowledge, and should be used to make an independent determination of the methods to safeguard workers and the environment.