

HEXPOL Compounding

MATERIAL SAFETY DATA SHEET

MMC 38-1294 GRAY EM SLAB-70

Version Number 1.0
Revision Date 09/24/2014

Page 1 of 8
Print Date 9/24/2014

1. PRODUCT AND COMPANY IDENTIFICATION

HEXPOL Compounding
14330 Kinsman Road, Burton, OH 44021

Telephone : Product Stewardship (440) 834-4644
Emergency telephone : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Product name : MMC 38-1294 GRAY EM SLAB-70
Product code : AD3000384660
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight percent
Stearic acid	57-11-4	1 - 5
Carbon black	1333-86-4	1 - 5
Calcium carbonate	471-34-1	5 - 10
Titanium dioxide	13463-67-7	30 - 60

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: : Inhalation, Ingestion, Skin contact

Acute exposure

Inhalation : Particulates, like other inert materials can be mechanically irritating.
Ingestion : May be harmful if swallowed.
Eyes : Particulates, like other inert materials can be mechanically irritating.
Skin : Experience shows no unusual dermatitis hazard from routine handling.

Chronic exposure : Refer to Section 11 for Toxicological Information.

HEXPOL Compounding

MATERIAL SAFETY DATA SHEET

MMC 38-1294 GRAY EM SLAB-70

Version Number 1.0
Revision Date 09/24/2014

Page 2 of 8
Print Date 9/24/2014

Medical Conditions : None known.
Aggravated by Exposure:

4. FIRST AID MEASURES

Inhalation : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.

Ingestion : Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.

Eyes : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.

Skin : Wash off with soap and plenty of water. If skin irritation persists seek medical attention.

5. FIRE-FIGHTING MEASURES

Flash point : not applicable

Flammable Limits
Upper explosion limit : not applicable
Lower explosion limit : not applicable

Autoignition temperature : not applicable

Suitable extinguishing media : Water spray, Dry powder, Foam, Carbon dioxide (CO₂).

Special Fire Fighting Procedures : Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.

Unusual Fire/Explosion Hazards : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), other hazardous materials, and smoke are all possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.

Environmental precautions : Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.

Methods for cleaning up : Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

7. HANDLING AND STORAGE

Handling : Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.

HEXPOL Compounding

MATERIAL SAFETY DATA SHEET

MMC 38-1294 GRAY EM SLAB-70

Version Number 1.0
Revision Date 09/24/2014

Page 3 of 8
Print Date 9/24/2014

Storage : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection : No personal respiratory protective equipment normally required when handling the product itself. See "Engineering Measures" section below for precautions to be taken when heating or processing this material.

Eye/Face Protection : Safety glasses with side-shields

Hand protection : Protective gloves

Skin and body protection : Long sleeved clothing

Additional Protective Measures : Safety shoes

General Hygiene Considerations : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Engineering measures : Heat only in areas with appropriate exhaust ventilation. Adequate ventilation and/or appropriate respiratory protection may also be necessary to minimize employee exposure to processing vapors.

Exposure limit(s)

HEXPOL Compounding

MATERIAL SAFETY DATA SHEET

MMC 38-1294 GRAY EM SLAB-70

Version Number 1.0

Page 4 of 8

Revision Date 09/24/2014

Print Date 9/24/2014

Components	Value	Exposure time	Exposure type	List:
Carbon black	3.5 mg/m ³	Recommended exposure limit (REL):		NIOSH
	0.1 mg/m ³	Recommended exposure limit (REL):		NIOSH
	3.5 mg/m ³	PEL:		OSHA Z1
	3.5 mg/m ³	Time Weighted Average (TWA):		OSHA Z1A
	3.5 mg/m ³	Time Weighted Average (TWA):		MX OEL
	7 mg/m ³	Short Term Exposure Limit (STEL):		MX OEL
	3 mg/m ³	Time Weighted Average (TWA):	Inhalable fraction.	ACGIH
Calcium carbonate	5 mg/m ³	Recommended exposure limit (REL):	Respirable.	NIOSH
	10 mg/m ³	Recommended exposure limit (REL):	Total	NIOSH
	5 mg/m ³	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m ³	PEL:	Total dust.	OSHA Z1
	5 mg/m ³	Time Weighted Average (TWA):	Respirable fraction.	OSHA Z1A
	15 mg/m ³	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	10 mg/m ³	Time Weighted Average (TWA):		MX OEL
Titanium dioxide	20 mg/m ³	Short Term Exposure Limit (STEL):		MX OEL
	10 mg/m ³	Time Weighted Average (TWA):		ACGIH
	15 mg/m ³	PEL:	Total dust.	OSHA Z1
	10 mg/m ³	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	10 mg/m ³	Time Weighted Average (TWA):	as Ti	MX OEL
	20 mg/m ³	Short Term Exposure Limit (STEL):	as Ti	MX OEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Solid	Evaporation rate	: Not applicable
Appearance	: pellets, Slabs, sheets	Specific Gravity	: Not determined
Color	: GREY	Bulk density	: Not established
Odour	: Characteristic rubber odor	Vapour pressure	: not applicable
Melting point/range	: Not determined	Vapour density	: not applicable
Boiling Point:	: not applicable	pH	: not applicable
Water solubility	: Insoluble		

10. STABILITY AND REACTIVITY

HEXPOL Compounding

MATERIAL SAFETY DATA SHEET

MMC 38-1294 GRAY EM SLAB-70

Version Number 1.0

Page 5 of 8

Revision Date 09/24/2014

Print Date 9/24/2014

Stability	:	Stable.
Hazardous Polymerization	:	Will not occur.
Conditions to avoid	:	Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
Incompatible Materials	:	Incompatible with strong acids and oxidizing agents.
Hazardous decomposition products	:	Carbon dioxide (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), other hazardous materials, and smoke are all possible.

11. TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
57-11-4	Stearic acid	Irritant	Eyes, Skin.
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system.
471-34-1	Calcium carbonate	Irritant	Eyes, Skin.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
57-11-4	Stearic acid	Dermal LD50	> 5 gm/kg	rabbit
1333-86-4	Carbon black	Oral LD50 Oral LD50 Dermal LD50	> 15,400 mg/kg 8,000 mg/kg > 3 gm/kg	rat rat rabbit
471-34-1	Calcium carbonate	Oral LD50 Oral LD50 Oral LD50	6,450 mg/kg 6,450 mg/kg 6,450 mg/kg	rat rat mouse

Carcinogenicity

This product contains the following components which, in their pure form, have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
1333-86-4	Carbon black	no	2B	no
13463-67-7	Titanium dioxide	no	2B	no

HEXPOL Compounding

MATERIAL SAFETY DATA SHEET

MMC 38-1294 GRAY EM SLAB-70

Version Number 1.0
 Revision Date 09/24/2014

Page 6 of 8
 Print Date 9/24/2014

IARC Carcinogen Classifications:

- 1 - The component is carcinogenic to humans.
- 2A - The component is probably carcinogenic to humans.
- 2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

- 1 - The component is known to be a human carcinogen.
- 2 - The component is reasonably anticipated to be a human carcinogen.

Additional Health Hazard Information:

Carbon black 1333-86-4 Carcinogenicity: Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in Monograph Volume 65, issued in April 1996 concluded that, "There is sufficient evidence in experimental animals for the carcinogenicity of carbon black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "Carbon Black is possibly carcinogenic to humans (Group 2B). The IARC 2B listing only pertains to airborne, unbound carbon black particles of respirable size. Carbon Black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon black with PAH (polynuclear aromatic hydrocarbon) levels greater than 0.1% be considered suspect carcinogens.

12. ECOLOGICAL INFORMATION

- Persistence and degradability : Not readily biodegradable.
- Environmental Toxicity : Chemicals are not readily available as they are bound within the polymer matrix.
- Bioaccumulation Potential : Chemicals are not readily available as they are bound within the polymer matrix.
- Additional advice : not applicable

13. DISPOSAL CONSIDERATIONS

- Product : Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
- Contaminated packaging : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

14. TRANSPORT INFORMATION

- U.S. DOT Classification : Refer to specific regulation.

HEXPOL Compounding

MATERIAL SAFETY DATA SHEET

MMC 38-1294 GRAY EM SLAB-70

Version Number 1.0
Revision Date 09/24/2014

Page 7 of 8
Print Date 9/24/2014

ICAO/IATA (air) : Refer to specific regulation.

IMO / IMDG (maritime) : Refer to specific regulation.

15. REGULATORY INFORMATION

US Regulations:

OSHA Status : Classified as hazardous based on components.

TSCA Status : All components of this product are listed on or exempt from the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

California Proposition 65 : WARNING! This product contains a chemical known to the State of California to cause cancer.

SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

not applicable

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
1333-86-4
57-11-4

DSL : All components of this product are on the Canadian Domestic

HEXPOL Compounding

MATERIAL SAFETY DATA SHEET

MMC 38-1294 GRAY EM SLAB-70

Version Number 1.0
Revision Date 09/24/2014

Page 8 of 8
Print Date 9/24/2014

Substances List (DSL) or are exempt.

National Inventories:

Australia AICS	:	Listed
China IECS	:	Listed
Europe EINECS	:	Listed
Japan ENCS	:	Listed
Korea KECI	:	Listed
Philippines PICCS	:	Listed

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.