

# HEXPOL Compounding

## MATERIAL SAFETY DATA SHEET

### MASTERMIX SILICA HNBR 2395 SLAB-33

Version Number 1.1  
Revision Date 08/10/2011

Page 1 of 1  
Print Date 9/20/2011

#### 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 : MASTERMIX SILICA HNBR 2395 SLAB-33  
Product code : AD3000306160  
Chemical Name : Mixture  
CAS-No. : Mixture  
Product Use : Industrial Applications

#### 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight percent
Di(2-ethylhexyl)phthalate	117-81-7	0.1 - 1
Silica, amorphous, fumed, crystal-free	112945-52-5	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.

**Medical Conditions** : None known.

**Aggravated by Exposure:**

## HEXPOL Compounding

### MATERIAL SAFETY DATA SHEET

#### **MASTERMIX SILICA HNBR 2395 SLAB-33**

Version Number 1.1  
Revision Date 08/10/2011

Page 2 of 2  
Print Date 9/20/2011

#### 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 (CO<sub>2</sub>).
- 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 (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), 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.
- Storage : Keep containers dry and tightly closed to avoid moisture absorption

## HEXPOL Compounding

### MATERIAL SAFETY DATA SHEET

#### **MASTERMIX SILICA HNBR 2395 SLAB-33**

Version Number 1.1  
Revision Date 08/10/2011

Page 3 of 3  
Print Date 9/20/2011

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

### MASTERMIX SILICA HNBR 2395 SLAB-33

Version Number 1.1  
Revision Date 08/10/2011

Page 4 of 4  
Print Date 9/20/2011

Components	Value	Exposure time	Exposure type	List:	
Di(2-ethylhexyl)phthalate	5 mg/m3	Time Weighted Average (TWA):		ACGIH	
	5 mg/m3	Recommended exposure limit (REL):		NIOSH	
	10 mg/m3	Short Term Exposure Limit (STEL):		NIOSH	
	5 mg/m3	PEL:		OSHA Z1	
	5 mg/m3	Time Weighted Average (TWA):		OSHA Z1A	
	10 mg/m3	Short Term Exposure Limit (STEL):		OSHA Z1A	
	5 mg/m3	Time Weighted Average (TWA):		MX OEL	
	10 mg/m3	Short Term Exposure Limit (STEL):		MX OEL	
	Silica, amorphous, fumed, crystal-free	0.8 mg/m3	Time Weighted Average (TWA):		Z3
		10 mg/m3	Time Weighted Average (TWA):	Inhalable particulate.	MX OEL
3 mg/m3		Time Weighted Average (TWA):	Respirable dust.	MX OEL	

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Solid	Evaporation rate	: Not applicable
Appearance	: pellets, Slabs, sheets	Specific Gravity	: Not determined
Color	: NO PIGMENT	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

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 <sub>2</sub> ), carbon monoxide (CO), oxides of nitrogen (NO <sub>x</sub> ), other hazardous materials, and smoke are all possible.

#### 11. TOXICOLOGICAL INFORMATION

# HEXPOL Compounding

## MATERIAL SAFETY DATA SHEET

### **MASTERMIX SILICA HNBR 2395 SLAB-33**

Version Number 1.1  
Revision Date 08/10/2011

Page 5 of 5  
Print Date 9/20/2011

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
117-81-7	Di(2-ethylhexyl)phthalate	Systemic effects	Eyes, Respiratory system, Liver, central nervous system (CNS), Skin, digestive system.
112945-52-5	Silica, amorphous, fumed, crystal-free	Irritant	Eyes, 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
117-81-7	Di(2-ethylhexyl)phthalate	Oral LD50	30 gm/kg	rat
		Dermal LD50	25 gm/kg	rabbit
112945-52-5	Silica, amorphous, fumed, crystal-free	Oral LD50	3,160 mg/kg	rat

#### Carcinogenicity

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
---------	---------------	------	------	-----

#### 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:**

**Di(2-ethylhexyl)phthalate 117-81-7** There is sufficient evidence for the carcinogenicity of di (2-ethylhexyl) phthalate in experimental animals. Administered in the feed this chemical caused an increase incidence of liver cancer in male and female rats and mice. The relevance of this finding to humans is uncertain.

## 12. ECOLOGICAL INFORMATION

Persistence and degradability : Not readily biodegradable.

Environmental Toxicity : Chemicals are not readily available as they are bound within the polymer matrix.

## HEXPOL Compounding

### MATERIAL SAFETY DATA SHEET

#### **MASTERMIX SILICA HNBR 2395 SLAB-33**

Version Number 1.1  
Revision Date 08/10/2011

Page 6 of 6  
Print Date 9/20/2011

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.

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., WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

SARA Title III Section 302 Extremely Hazardous Substance

## HEXPOL Compounding

### MATERIAL SAFETY DATA SHEET

#### **MASTERMIX SILICA HNBR 2395 SLAB-33**

Version Number 1.1  
Revision Date 08/10/2011

Page 7 of 7  
Print Date 9/20/2011

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

Chemical Name	CAS-No.	Weight percent
DI(2-ETHYLHEXYL)PHTHALATE	117-81-7	0.10 - 1.00

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight percent	NPRI ID#
Di(2-ethylhexyl)phthalate	117-81-7	0.10 - 1.00	

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
117-81-7
112945-52-5

DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS : Listed  
China IECS : Listed  
Europe EINECS : Listed  
Japan ENCS : Not determined  
Korea KECI : Listed  
Philippines PICCS : Not determined

#### 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

## HEXPOL Compounding

### MATERIAL SAFETY DATA SHEET

### **MASTERMIX SILICA HNBR 2395 SLAB-33**

Version Number 1.1  
Revision Date 08/10/2011

Page 8 of 8  
Print Date 9/20/2011

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.