

MSDS #: 189

FR4832

1. Product And Company Identification**Borealis Compounds LLC**

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Port Murray, NJ 07865

Telephone Number: (908) 850-6200

Issue Date: 10/18/2007

Product Name: FR4832

Chemical Type: Mixture

CHEM Master® Number: 10351

MSDS Number: 189

Product Code: 93424-14

2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
1,2-BIS(3,5-DI-TERT-BUTYL-4-HYDROXYHYDROCINNAMYL)HYDRAZINE (1000216)	32687-78-8		0.2
2,4-DIPHENYL-4-METHYL-1-PENTENE (04006)	Not Established		0.4
ALUMINA TRIHYDRATE (1008441)	21645-51-2		54.27
DICUMYL PEROXIDE	80-43-3	<	1.56
DISTEARYL 3,3'-THIODIPROPIONATE (01579)	Not Established		0.5
ETHYLENE-VINYL ACETATE COPOLYMER (1008469)	24937-78-8		43.02
TETRAKIS[METHYLENE(3,5-DI-(TERTO-BUTYL-4-HYDROXYHYDROCINNAMATE)METHANE (01554)	6683-19-8		1
THIODIETHYLENE BIS(3,5-DITERT-BUTYL-4HYDROXYHYDROCINNAMATE (1000218)	41484-35-9		0.5
VTMO 09539)(Not Established		4

3. Hazards Identification**Emergency Overview**

Vapors from materials heated above the decomposition temperature >300°C may be toxic, irritating and possibly corrosive.

Primary Routes(s) Of Entry

Inhalation of dusts and vapors from heated material may be irritating to respiratory system and eyes.

Eye Hazards

Vapors from heated materials may cause eye irritation. Contact with heated materials may cause thermal burns.

Skin Hazards

Contact with heated materials may cause thermal burns.

Ingestion Hazards

Not a normal route of exposure. However, If ingested may cause gastrointestinal disturbances. Contact with heated materials may cause thermal burns.

Inhalation Hazards

Dusts and vapors from heated materials may cause respiratory tract irritation.

4. First Aid Measures**Eye**

Flush eyes immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. If irritation persists get medical attention. Thermal burns to the eyes or area around the eyes require immediate medical attention.

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4. First Aid Measures - Continued**Skin**

Wash area of contact thoroughly with soap and water. If burned from contact with hot material, flush skin immediately with large amounts of cool water and get medical attention. If irritation persists get medical attention. Thermal burns require immediate medical attention.

Ingestion

Get medical attention immediately.

Inhalation

Remove affected person from the source of exposure to an area of fresh air. Get medical attention if irritation persists or breathing becomes difficult.

5. Fire Fighting Measures

Flash Point: NA °C

Autoignition Point: NA °C

Flammability Class: NA

Lower Explosive Limit: NA

Upper Explosive Limit: NA

Fire And Explosion Hazards

Dust laden conditions increase potential for fire and explosion.

Extinguishing Media

Use dry chemical, foam or water spray to extinguish fire. Use water spray to cool fire exposed containers, structure and to protect personnel. Do not flush down public sewers or drainage systems.

Fire Fighting Instructions

Irritating or toxic substances may be emitted upon thermal decomposition. Exposed fire fighters should wear NIOSH approved self-contained breathing apparatus with full-face mask and full fire fighting protective clothing.

6. Accidental Release Measures

No special procedures are required for clean-up of spills or leaks of this material. Avoid methods that result in water pollution or generation of dust. Caution should be exercised regarding personal safety and exposure to the spilled material.

7. Handling And Storage**Handling Precautions**

Avoid prolonged or repeated contact with skin or clothing. If contact is unavoidable, wear protective clothing, face protection and gloves. Use with adequate ventilation. Wear gloves capable of resisting >200°C.. Contact with molten material may cause thermal burns.

Storage Precautions

Store in cool dry location.

Work/Hygienic Practices

After handling, wash thoroughly with soap and water.

8. Exposure Controls/Personal Protection**Eye/Face Protection**

Safety glasses should be worn during handling of product.

Skin Protection

Wear clothing and gloves to avoid unnecessary contact with the product. When working with molten product wear gloves capable of resisting a temperature >200°C.

Respiratory Protection

Wear NIOSH approved respirators in accordance with OSHA regulations when necessary.

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9. Physical And Chemical Properties**Appearance**

Natural to off-white pellets.

Odor

Slight odor.

Chemical Type: Mixture

Physical State: Solid

Melting Point: 80 - 100 °C

Boiling Point: NA °C

Vapor Pressure: NA

Vapor Density: NA

pH Factor: NA

Solubility: insoluble in water

Viscosity: NA

Evaporation Rate: NA

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Avoid contact with strong oxidizing agents and elevated temperatures.

Incompatible Materials

Oxidizers

Hazardous Decomposition Products

Material will slowly decompose at temperatures >200°C. Thermal decomposition may release acrid smoke and irritating vapors.

Conditions To Avoid (Polymerization)

Elevated temperatures.

11. Toxicological Information

This product has not been tested as a whole for all potential health effects. It may have other health hazards relating to its components.

12. Ecological Information**Acute Toxicity - Fish And Invertebrates**

NA

Toxicity - Aquatic And Terrestrial Plants

NA

Acute And Dietary Toxicity - Birds

NA

Toxicity - Beneficial Microorganisms

NA

13. Disposal Considerations

This substance, when discarded or disposed of is not specifically listed as a hazardous waste in Federal regulations. However, it could be hazardous if it is considered toxic, corrosive, ignitable or reactive according to Federal definitions (40 CFR 261). Additionally, it could be designated as hazardous waste if it is mixed with or comes in contact with a hazardous waste. If such contact or mixing may have occurred, check 40 CFR 261 to determine whether it is a hazardous waste.

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13. Disposal Considerations - Continued

The transportation, storage, treatment and disposal of this waste materials must be conducted in accordance with all applicable Federal, state and local regulations.

RCRA Information

NA

14. Transport Information**Proper Shipping Name**

Plastic Granules Non-Hazardous

Hazard Class

NA

DOT Shipping Label

NA

Freight Class

NA

Packaging Exceptions

NA

Packaging Requirements

NA

15. Regulatory Information

No applicable information was identified

16. Other Information**NFPA Hazard Rating**

Health: 0

Fire: 0

Reactivity: 0

HMIS Hazard Rating

Health: 0

Fire: 0

Reactivity: 0

Precautionary Label

NA

Revision/Preparer Information

MSDS Preparer: William E. Wallace

MSDS Preparer Phone Number: (908) 850-6243

This MSDS Superceeds A Previous MSDS Dated: 04/18/2005

Reference Documentation

Material Specification Sheet Reference

Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

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16. Other Information - Continued**Disclaimer - Continued**

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

Borealis Compounds LLC