

SAFETY DATA SHEET

HE1345

Version 1

Revision Date 07/24/2015

Print Date 07/25/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HE1345

Manufacturer or supplier's details

Supplier : Borealis Compounds Inc
176 Thomas Road, NJ 07865 Port Murray, United States of America
Telephone: +1 908 850 6200E-mail address : sds@borealisgroup.com

Emergency telephone number : Borealis Compounds Inc, William E Wallace: +1 908 850 6243

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	pellets
Colour	light yellow
Odour	odourless
Hazard Summary	The product burns, but is not classified as flammable. Ammonia gas may be liberated at high temperatures.

GHS-Classification

Not a hazardous substance or mixture.

GHS-Labeling

Not a hazardous substance or mixture.

Potential Health Effects

Aggravated Medical Condition : None known.

Symptoms of Overexposure : Inhalation of dust may irritate the respiratory tract. Prolonged inhalation of high doses of decomposition products may give headache or irritation of the respiratory tract.

Contains C,C'-azodi(formamide). May produce an allergic reaction.

Carcinogenicity:

IARC No component of this product present at levels greater than or

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ACGIH

equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : The product is a polyethylene polymer.
It contains stabilisers.

Hazardous components

Chemical Name	CAS-No.	Concentration [%]
C,C'-azodi(formamide)	123-77-3	< 1

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air in case of accidental inhalation of vapours or decomposition products.

In case of skin contact : Cool melted product on skin with plenty of water. Do not remove solidified product.

Most important symptoms and effects, both acute and delayed : Inhalation of dust may irritate the respiratory tract. Prolonged inhalation of high doses of decomposition products may give headache or irritation of the respiratory tract.

Contains C,C'-azodi(formamide). May produce an allergic reaction.

Notes to physician : Treat symptomatically.
No specific instructions needed.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water in spread jet, dry chemicals, foam or carbon dioxide.

Specific hazards during : Principal toxicant in the smoke is carbon monoxide.

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firefighting

Special protective equipment : Wear self-contained breathing apparatus and protective suit.
for firefighters

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
Use personal protective equipment.

Environmental precautions : No specific measures identified.
The product is not considered hazardous for the environment.

Methods and materials for containment and cleaning up : Vacuum or sweep up spill.
All spill of material must be removed immediately to prevent slipping accidents.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released.
Avoid inhalation of dust and decomposition fumes.
Provide adequate ventilation.
Local exhaust ventilation may be necessary.

The product contains small amounts of a substance classified as sensitising, which may produce an allergic reaction to susceptible personnel.
Personnel sensitised to this substance should not be allowed to handle the product.

Conditions for safe storage : Safety aspects do not require any special precautions in terms of storage.

Materials to avoid : None known.

Storage temperature : < 50 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Provide adequate ventilation.
Local exhaust ventilation may be necessary.

Personal protective equipment

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Respiratory protection : In case of strong dust development use dust masks.
Filter type : P2 filter

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : pellets
Colour : light yellow
Odour : odourless
pH : Not applicable insoluble
Melting range : 100 - 140 °C
Boiling range : Decomposes on heating.
Flash point : Not applicable (solid)
Evaporation rate : Not applicable (solid)
Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : Not applicable
Lower explosion limit : Not applicable
Vapour pressure : Not applicable (solid)
Density : 0.9 - 1.0 g/cm³
Bulk density : 500 - 600 kg/m³
Solubility(ies)
Water solubility : insoluble
Partition coefficient: n-octanol/water : Not applicable insoluble
Auto-ignition temperature : > 320 °C

Viscosity
Viscosity, kinematic : no data available
Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

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Chemical stability	:	The product is a stable thermoplastic.
Possibility of hazardous reactions	:	None known.
Conditions to avoid	:	Extremes of temperature and direct sunlight.
Incompatible materials	:	None known.
Hazardous decomposition products	:	Under fire conditions: Carbon monoxide During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released. Ammonia gas may be liberated at high temperatures.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	:	Remarks: No known effect.
Acute inhalation toxicity	:	Remarks: No known effect.
Acute dermal toxicity	:	Remarks: No known effect.

Skin corrosion/irritation

Product:

Remarks: No known effect.

Serious eye damage/eye irritation

Product:

Remarks: No known effect.

Respiratory or skin sensitisation

Product:

Remarks: May cause sensitization of susceptible persons by inhalation of dust.

Germ cell mutagenicity

Product:

Genotoxicity in vitro	:	Remarks: no data available
Genotoxicity in vivo	:	Remarks: no data available

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Carcinogenicity

Product:

Remarks: Not classified based on available information.

Reproductive toxicity

Product:

Effects on fertility : Remarks: No known effect.

STOT - single exposure

Product:

Remarks: no data available

STOT - repeated exposure

Product:

Remarks: no data available

Repeated dose toxicity

Product:

Remarks: Health injuries are not known or expected under normal use.

Aspiration toxicity

Product:

no data available

Further information

Product:

Remarks: Inhalation of dust may irritate the respiratory tract., Prolonged inhalation of high doses of decomposition products may give headache or irritation of the respiratory tract.

Remarks: Ammonia gas may be liberated at high temperatures., Exposure to ammonia may cause irritation and burns to skin, eyes and respiratory tract.

Remarks: Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

SECTION 12. ECOLOGICAL INFORMATION

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Ecotoxicity

Product:

Toxicity to fish : Remarks: No known effect.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No known effect.

Toxicity to algae : Remarks: No known effect.

Toxicity to bacteria : Remarks: No known effect.

Persistence and degradability

Product:

Biodegradability : Remarks: Not readily biodegradable.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Does not accumulate in organisms.

Mobility in soil

Product:

Mobility : Remarks: The product is insoluble and floats on water., Not expected to adsorb on soil.

Other adverse effects

Product:

Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Additional ecological information : The product is not considered hazardous for the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : 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

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hazardous waste. If such contact or mixing may have occurred, check 40 CFR 261 to determine whether it is a hazardous waste.

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

SECTION 14. TRANSPORT INFORMATION

International Regulation

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

Not regulated as a dangerous good

Special precautions for user

Remarks : The product is not regulated by ADR/RID, IMDG or IATA.

SECTION 15. REGULATORY INFORMATION

All ingredients within this product meet TSCA regulations., In accordance with Hazard Communication Standard 2012 (29 CFR 1910.1200), the product does not need to be classified nor labelled.

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

SECTION 16. OTHER INFORMATION

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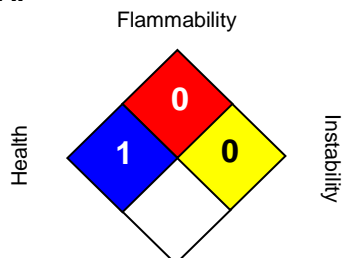
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Further information

NFPA:



Special hazard.

HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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