

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : HE1344

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : raw material for plastics industry

### 1.3 Details of the supplier of the safety data sheet

Supplier :  
: Borealis AG  
Wagramer Strasse 17-19, 1220 Vienna, Austria  
Telephone: +43 1 22400 0

E-mail address : [sds@borealisgroup.com](mailto:sds@borealisgroup.com)

### 1.4 Emergency telephone number

Contact your national emergency telephone number.

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## 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

|| Not a hazardous substance or mixture.

**Classification (67/548/EEC, 1999/45/EC)**

The product is not classified as dangerous according to Directive 1999/45/EC.

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

|| Not a hazardous substance or mixture.

**Additional Labelling:**

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

### 2.3 Other hazards

The product burns, but is not classified as flammable.  
Ammonia gas may be liberated at high temperatures.

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## 3. Composition/information on ingredients

### 3.2 Mixtures

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

## Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
C,C'-azodi(formamide)	123-77-3 204-650-8	E; R 2 R42	Resp. Sens. 1; H334	< 1

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. First aid measures

### 4.1 Description of 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.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : 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.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.  
No specific instructions needed.

## 5. Firefighting measures

### 5.1 Extinguishing media

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

### 5.2 Special hazards arising from the substance or mixture

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

### 5.3 Advice for firefighters

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

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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Personal precautions : Ensure adequate ventilation.  
Use personal protective equipment.

## 6.2 Environmental precautions

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

## 6.3 Methods and materials for containment and cleaning up

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

## 6.4 Reference to other sections

For personal protection see section 8.  
For disposal considerations see section 13.

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## 7. Handling and storage

### 7.1 Precautions for safe handling

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.

Advice on protection against fire and explosion : Dust from the product gives a potential risk for dust explosion.  
All equipment shall be grounded.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Safety aspects do not require any special precautions in terms of storage.

Storage temperature : < 50 °C

### 7.3 Specific end use(s)

Specific use(s) : Raw material for wire and cable applications.

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## 8. Exposure controls/personal protection

### 8.1 Control parameters

For national exposure limit (OEL) values, check country specific safety data sheets.

DNEL : Not applicable

PNEC : Not applicable

## 8.2 Exposure controls

### Engineering measures

Provide adequate ventilation.  
Local exhaust ventilation may be necessary.

### Personal protective equipment

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

### Environmental exposure controls

General advice : No specific measures identified.  
The product is not considered hazardous for the environment.

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## 9. Physical and chemical properties

### 9.1 Information on basic 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.

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Vapour pressure : Not applicable, (solid)

Density : 0,9 - 1,0 g/cm<sup>3</sup>

Water solubility : insoluble

Partition coefficient: n-octanol/water : Not applicable, insoluble

Ignition temperature : > 320 °C

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Viscosity, kinematic : no data available  
Explosive properties : Not explosive  
Oxidizing properties : The substance or mixture is not classified as oxidizing.

## 9.2 Other information

Bulk density : 500 - 600 kg/m<sup>3</sup>

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## 10. Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

The product is a stable thermoplastic.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

### 10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

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.

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## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Product

Acute oral toxicity : No known effect.  
Acute inhalation toxicity : No known effect.  
Acute dermal toxicity : No known effect.  
Skin corrosion/irritation : No known effect.  
Serious eye damage/eye irritation : No known effect.  
Respiratory or skin sensitisation : May cause sensitization of susceptible persons by inhalation of dust.

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- STOT - repeated exposure : Health injuries are not known or expected under normal use.
- Further information : The product is not classified as hazardous according to Regulation (EC) No 1272/2008. 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.
- : Ammonia gas may be liberated at high temperatures. Exposure to ammonia may cause irritation and burns to skin, eyes and respiratory tract.

## 12. Ecological information

### 12.1 Toxicity

#### Product

- Toxicity to fish : No known effect.  
Toxicity to daphnia and other aquatic invertebrates : No known effect.  
Toxicity to algae : No known effect.  
Toxicity to bacteria : No known effect.

### 12.2 Persistence and degradability

#### Product

- Biodegradability : Not readily biodegradable.

### 12.3 Bioaccumulative potential

#### Product

- Bioaccumulation : Does not accumulate in organisms.

### 12.4 Mobility in soil

#### Product

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

### 12.5 Results of PBT and vPvB assessment

#### Product

- 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).

### 12.6 Other adverse effects

#### Product

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

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### 13. Disposal considerations

#### 13.1 Waste treatment methods

Product : Reuse or recycle if not contaminated.  
The product may be safely used as fuel.  
Proper combustion does not require any special flue gas control.  
Check with local regulations.

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### 14. Transport information

#### 14.1 UN number

**ADR**  
Not dangerous goods

#### 14.2 Proper shipping name

**ADR**  
Not dangerous goods

#### 14.3 Transport hazard class

**ADR**  
Not dangerous goods

#### 14.4 Packing group

**ADR**  
Not dangerous goods

#### 14.5 Environmental hazards

**ADR**  
Not dangerous goods

#### 14.6 Special precautions for user

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

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

Remarks : Not applicable

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### 15. Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : C,C'-azodi(formamide)

## 15.2 Chemical Safety Assessment

no

## 16. Other information

### Full text of R-phrases referred to under sections 2 and 3

R 2 Risk of explosion by shock, friction, fire or other sources of ignition.  
R42 May cause sensitisation by inhalation.

### Full text of H-Statements referred to under sections 2 and 3.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Further information

Other information : Issued according to Regulation (EC) No 1907/2006, Annex II, and its amendments.  
Changes since the last version are highlighted in the margin.  
This version replaces all previous versions.

Issuer : Borealis, Group Product Stewardship / Niina Kerttula

Sources of key data used to compile the Safety Data Sheet : The classification information of components is based on raw material supplier data.



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