

Name of the product:	IonPhase IPE hSTAT
Version:	2
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1. SUBSTANCE AND COMPANY IDENTIFICATION

1.1. Identification of the substance or preparation

Name: IonPhase IPE[®] hSTAT
REACH Registration number: Exempted according to Article 2 § (9)
Trade Names: IPE[®] hSTAT
Chemical name: Polymer

1.2. Use of substance

IonPhase[®] IPE[®] hSTAT is a polymeric polymer additive. This polymer additive is designed to be used in compounding, injection molding and extrusion applications with polymers requiring high processing temperatures, providing static dissipative properties (antistatic).

1.3. Company identification

Name: IonPhase Oy
Address: Hepolamminkatu 29, FI-33721 Tampere, Finland
Phone N°: +358 3 253 5581
Fax N°: +358 3 253 5579

E-mail of responsible person for SDS in EU: marjukka.eklund@ionphase.fi

1.4. Emergency telephone

Emergency telephone number: local poisoning center / hospital

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2. Hazards identification

2.1. Classification of the mixture

This mixture is not classified as dangerous according to regulation 1272/2008/EC

This mixture is not classified as dangerous according to regulation 1999/45/EC

2.2. Label elements

This mixture does not require a label according to 1272/2008/EC

2.3. Other hazards

Inhalation:

Polymer is not respirable as sold. At processing temperatures above 350°C, fumes irritating to the eyes, nose and throat may be evolved. Exposure may result in redness, itching and tearing of the eyes and soreness in the nose and throat together with coughing.

Contact with skin:

No data available. However, based on experience with handling these or similar polymers, no unusual dermatitis problem is expected from routine handling. Molten polymer contacting the skin will cause thermal burns.

Contact with eyes:

Possible eye irritation from dust particles; wear eye protection.

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3. Composition/information on ingredients

3.1. Chemical composition

General description: Mixture

3.2. Components

Polymer blend based on polyether block polymer and styrene copolymer, non-halogen ionic compound as an additive <2%.

4. First aid measures

4.1. Inhalation

No specific intervention is indicated as the compound is not likely to be hazardous by inhalation.

4.2. Eye contact

In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. In case of eye contact with molten material, irrigate eye with clean water and seek immediate medical attention.

4.3. Skin contact

The compound is not likely to be hazardous by skin contact but cleansing the skin after use is advisable. If molten material gets on skin, cool rapidly with cold water. Do not attempt to remove material from skin. Obtain medical treatment for thermal burn.

4.4. Ingestion

Consult a doctor

4.5. Special resources necessary for first aid

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5. Fire-fighting measures

5.1. Suitable extinguishing media

Water, foam, dry chemical or CO2

5.2. Unsuitable fire extinguisher for reasons of safety

n.t.

5.3. Special dangers caused by the substance or preparation itself, results of fire/burning, or ensuring gases

The solid polymer can be combusted only with difficulty. Hazardous gases/vapours produced in fire are carbon monoxide and hydrocarbon oxidation products including organic acids, aldehydes, alcohols and nitrogen oxides.

5.4. Special protective equipment for fire fighting

Wear self-contained breathing apparatus.

6. Accidental release measures

6.1. Personal precautions

See point 8.

6.2. Environmental precautions

See point 12.

6.3. Recover the product

Sweep up to prevent slipping hazard.

6.4. Elimination

Destroy the product by incineration. (in accordance with local and national regulations)

6.5. Clean-up Procedures

Avoid creating airborne dust. Dust suppressing cleaning methods such as wet sweeping or vacuuming should be used to clean the work area. If vacuuming, the vacuum must be equipped with an efficient secondary filter (such as a HEPA filter). Compressed air or dry sweeping should not be used.

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7. Handling and storage

7.1. Handling

Technical measures/Precautions

Storage and handling precautions applicable to products:

- Solid (pellets)
- Provide appropriate exhaust ventilation at machinery.
- Provide water supplies near the point of use.

Safe handling advice

- At all stages of the operation, do not exceed the temperature at which decomposition into toxic and corrosive products will occur
- Avoid accumulation of static charges during transfers in metallic systems
- Avoid creating dust.
- Prohibit all sources of sparks and ignition - Do not smoke.
- Keep well away from naked flames

7.2. Storage

Store in cool (20-25°C), dry place. Keep containers tightly closed to prevent moisture adsorption and contamination.

Technical measures/Storage conditions

- Store away from moisture and heat to maintain the technical properties of the product
- Remove all sources of ignition.
- Do not store above: 60 °C

7.3. Packaging material

Moisture barrier polyethylene/aluminium laminate bag, WVTR less than 1 g/m²/24h

8. Exposure controls/personal protection

8.1. Respiratory protection

A NIOSH/MSHA approved air purifying respirator with an organic vapour cartridge with a dust/mist canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any circumstances where air purifying respirators may not provide adequate protection.

8.2. Hand protection

Use normal protective working gloves.

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8.3. Eye/face protection

Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact due to splashing or spraying of molten material. A full face mask respirator provides protection from eye irritation.

8.4. Body protection

Use protective working garments.

9. Physical and chemical properties

Physical state:	granulate
Colour:	yellowish white
Odour:	neutral
pH-value undiluted:	n. a.
Melting point/range (°C):	143 - 163 C
Flammability (solid/gas):	n. a.
Density (g/cm ³):	1.09
Solubility in water:	negligible

10. Stability and reactivity

Material is stable at normal temperatures and storage conditions.

10.1. Conditions to avoid

Temperatures above 350 degC.

10.2. Materials to avoid

Material is incompatible with strong oxidizing agents.

10.3. Hazardous decomposition products

Hazardous gases or vapours can be released, including carbon monoxide, nitrogen oxides and hydrocarbon oxidation products, including organic acids, aldehydes and alcohols.

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11. Toxicological information

No health hazards are known.

Acute toxicity

11.1. Ingestion, LD50 rat oral (mg/kg):	not tested
11.2. Inhalation, LC50 rat inhal. (mg/l/4h):	not tested
11.3. Skin contact, LD50 rat dermal (mg/kg):	not tested
11.4. Eye contact:	not tested

Chronic effects

11.5. Sensitization:	not tested
11.6. Carcinogenicity:	not tested
11.7. Mutagenicity:	not tested
11.8. Reproductive toxicity:	not tested
11.9. Narcosis:	not tested

12. Ecological information

12.1. Water hazard class:

Toxicity is expected to be low based on insolubility in water. Do not discharge product uncontrolled into the environment.

Information on classification

This preparation is not classified relating to its environmental hazards applying the conventional method described in EU Directive 1999/45/EC, Annex III.

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13. Disposal considerations

13.1. For the material/preparation/residue

EC disposal code no.: 07 02 99 wastes not otherwise specified.
 15 01 02 plastic
 15 01 06 mixed
 20 01 04 other plastics

Recommendation:

Treatment, storage, transportation and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

14. Transport information

Not classified as hazardous for transport.

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

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15. Regulatory information

Classification according to Dangerous Product Regulations incl. EEC Guidelines (67/548/EEC and 88/379/EEC)

Symbol:	n. a.
Description of danger:	n. a.
R-phrases:	n. a.
S-phrases:	n. a.
Additions:	To avoid risks to man and environment comply with the instructions for use
VbF:	n. a.
Observe restrictions:	n. a.

16. Other Information

The data in this MSDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Legend:

n. a. = not applicable

n. t. = not tested

VbF = Regulations for flammable liquids

MAK = Maximum concentration per work place in ml/m³ = ppm

BAT = Biological tolerance for work places

TRbF = Technical regulations for flammable liquids

WGK = water hazard class

WGK0 = generally not hazardous to water

WGK1 = slightly hazardous to water

WGK2 = hazardous to water

WGK3 = very hazardous to water

The statements made here should describe the product with regard to the necessary safety precautions, they are not meant to guarantee definite characteristics, but they are based on our present up-to-date knowledge.