

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

**Product name:** Boltorn H2004  
**Application of the substance:** Intermediate for organic synthesis

**Supplier:** Polymer Factory AB  
Kristinedalsvägen 48  
SE-131 46 Nacka, Sweden  
[www.polymerfactory.com](http://www.polymerfactory.com)

**Further information obtainable from:** Polymer Factory AB (as above)  
**Information in case of emergency:** (Int.) +46 8 337043 (Emergency Response Center, Sweden)

## 2. Composition/information on ingredients

### Chemical characterization:

Chemical components	CAS-nr	%	EG-nummer	Symbol	R-fras
	462113-22-D	100	-	-	-

## 3. Hazards identification

**Hazard description:** Not classified.

**Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## 4. First aid measures

**General information:** Remove any clothing soiled by the product.

**After inhalation:** Fresh air and rest.

**After skin contact:** Wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** Rinse out mouth and then drink plenty of water or milk. If you feel unwell consult doctor.

## 5. Fire fighting measures

**Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions. CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Protective equipment:** Wear self-contained respiratory protective device.

## 6. Accidental release measures

**Person-related safety precautions:** Ensure adequate ventilation

- **Measures for environmental protection:** Do not allow to enter sewage system or any water course.
- **Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders)  
Pick up mechanically.

**Additional information:** No dangerous substances are released.

**7. Handling and storage**

**Information for safe handling:** Store in cool, dry place in tightly closed container

**Information about fire - and explosion protection:**  
 No special measures required

**Storage:**  
**Requirements to be met by storerooms and containers:**  
 Not special requirements.

**Information about storage in one common storage facility:**  
 Not required.

**8. Exposure controls / personal protection**

**Additional information about design of technical facilities:**  
 No further data, see item 7.

**Ingredients with limit values that require monitoring at the workplace:**  
 Not required.

**Additional information:** The lists valid during the making were used as basis.

**Personal protective equipment:**  
 · **General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.  
 · **Respiratory protection:** Not required.

**Protection of hands**  
 · **Penetration time of glove material:** Chloroprene rubber, CR; Nitrile rubber, NBR  
 The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.  
**Eye protection:** Safety glasses

**9. Physical and chemical properties**

**General information:**  
**Form (aggregation form):** Viscous  
**Colour:** Light brown  
**Odour:** Faint

**Change in condition:**  
**Melting point/Melting range:** < - 40 °C  
**Boiling point/Boiling range:** Not determined

**Flash point:** > 100 °C  
**Danger o explosion:** Product does not present an explosion hazard.  
**Density at 20 °C:** 1080 kg/m<sup>3</sup>

**Solubility in/miscibility with H<sub>2</sub>O:** Not miscible or difficult to mix.  
 - **alcohols:** Soluble in most alcohols.  
 - **ketones:** Soluble in acetone, MEK etc.  
 - **polar solvents:** Soluble in tetrahydrofuran (THF) and acetates  
**Partition coefficient (n-octanol/water):** Not determined.  
**Viscosity:**  
 - **Dynamic at 23 °C** 15 Pas

## 10. Stability and reactivity

### Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications

### Dangerous reactions:

No dangerous reactions known

### · Dangerous decomposition products:

No dangerous decomposition products known

## 11. Toxicological information

### Acute toxicity:

ORAL (LD50): >2000 mg/kg [rat]

### Primary irritant effect:

#### · on the skin:

No irritating effect. OECD 404

#### · on the eye:

No irritating effect. OECD 405

#### · Sensitization:

No sensitizing effects known.

#### · Additional toxicological information:

Ames test: Negative (not a mutagen)

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us. The substance is not subject to classification according to the latest version of the EU lists.

## 12. Ecological information

### Information about elimination (persistence and degradability):

BOD5 (static) > 70 % (SS-EN-1899-1)

### Other information:

The product is biodegradable.

### Aquatic toxicity:

EC50 > 50 mg/l (alga)

>50 mg/l (daphnia)

LC50 > 50 mg/l (fish)

### General notes:

#### - Water hazard class I (German regulation):

slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13. Disposal consideration

### European waste catalogue

07 00 00 wastes from organic chemical processes

07 01 00 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals

07 01 99 wastes not otherwise specified

### Recommendation:

Disposal must be made according to official regulations

## 14. Transport information

### Land transport ADR/RID (cross-border)

#### · ADR/RID class:

-

### Maritime transport IMDG:

#### · IMDG Class:

-



[www.polymerfactory.com](http://www.polymerfactory.com)

According to 2001/58 - English version  
Material Safety Data Sheet  
valid from 2008-04-19

**Air transport ICAO-TI and IATA-DGR:**  
· ICAO/IATA Class: -

**Transport/additional information:** Not dangerous goods according to the above specifications.

## 15. Regulatory information

**Labelling according to EU guidelines:**

The substance is not subject to classification according to EU lists.  
Observe the general safety regulations when handling chemicals.

## 16. Other information

This Safety Data Sheet is not a Product Specification. It is based on our present knowledge and experience and it is intended to serve as a guide for safe handling of the product regarding to health environmental aspects.

Department issuing SDS: PF Product development, Polymer Factory Sweden AB.

### HISTORY

Press date	2008-04
Date for this issue:	2008-04-19
Date for similar version	-
Version:	1

Summarized by: Eva Malmström