

Safety data sheet

according to 1907/2006/EC, Article 31


Printing date 06.11.2012


Revision: 06.11.2012

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

- **Product identifier**
- **Trade name:** HOBT - N-hydroxybenzotriazole
- **Article number:** 60-1002-05
- **CAS Number:**
2592-95-2
- **EC number:**
219-989-7
- **Index number:**
613-285-00-7
- **Registration number**
A registration number is not available for this substance because the annual tonnage is less than that required for registration or the registration date is envisaged for a later registration deadline.
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation** Laboratory chemical
- **Details of the supplier of the safety data sheet**
Severn Biotech Ltd.
Unit 2,
Park Lane,
Kidderminster,
Worcestershire.
DY11 6TJ
UK
Tel: 0044 1562 825286
Fax: 0044 1562 825284
email: info@severnbiotech.com
- **Further information obtainable from:** Product safety department.
- **Emergency telephone number:** Tel: 0044 1562 825286 (not 24 hours)

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
 GHS01 exploding bomb

Expl. 1.3 H203 Explosive; fire, blast or projection hazard.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 E; Explosive

R2: Risk of explosion by shock, friction, fire or other sources of ignition.
- **Information concerning particular hazards for human and environment:** Not applicable.
- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS01
- **Signal word** Danger
- **Hazard statements**
H203 Explosive; fire, blast or projection hazard.
- **Precautionary statements**
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P230 Keep wetted.
P250 Do not subject to grinding/shock/friction.

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P240 Ground/bond container and receiving equipment.

P370+P380 In case of fire: Evacuate area.

P372 Explosion risk in case of fire.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Substances**

· **CAS No. Description**

2592-95-2 1-hydroxybenzotriazole

· **Identification number(s)**

· **EC number:** 219-989-7

· **Index number:** 613-285-00-7

4 First aid measures

· **Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

· **Information for doctor:** Treat symptomatically and supportively.

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Firefighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture**

Stable under normal temperatures and pressures.

Heating above 180 °C results in rapid exothermic decomposition.

Heating may cause an explosion.

· **Advice for firefighters**

If fire is significant or in close proximity to containers of this product then evacuate the area immediately.

· **Protective equipment:**

Wear fully protective suit.

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

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- **Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

- Remove persons from danger area.
- Wear protective equipment. Keep unprotected persons away.
- Keep ignition sources away - no smoking.

- **Environmental precautions:**

- Do not allow product to reach sewage system or any water course.
- Do not allow to penetrate the ground/soil.

- **Methods and material for containment and cleaning up:**

- Pick up mechanically.
- Do not allow to dry out
- Send for recovery or disposal in suitable receptacles.

- **Reference to other sections**

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

- Open and handle receptacle with care.
- Prevent formation of dust.
- Ensure good ventilation/exhaustion at the workplace.
- Keep away from heat and direct sunlight.
- Handle with care. Avoid jolting, friction and impact.
- Restrict the quantity stored at the work place.
- Any unavoidable deposit of dust must be regularly removed.

- **Information about fire - and explosion protection:**

- Keep ignition sources away - Do not smoke.
- Prevent impact and friction.
- Protect from heat.
- Protect against electrostatic charges.
- Use explosion-proof apparatus / fittings and spark-proof tools.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store in a cool location.

- **Information about storage in one common storage facility:**

- Store away from oxidizing agents.
- Do not store together with acids.

- **Further information about storage conditions:**

- Protect from heat and direct sunlight.
- Store in cool, dry conditions in well sealed receptacles.
- Prevent from drying out.
- Store under lock and key and with access restricted to technical experts or their assistants only.
- Store in a bunded area.

- **Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
Select PPE appropriate for the operations taking place taking into account the product properties.
- **General protective and hygienic measures:**
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid close or long term contact with the skin.
Do not breath dust
A safe system of work must be formulated and followed to ensure safe working with this product.
Relevant workers must receive suitable and sufficient training and supervision.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing

9 Physical and chemical properties

- | | |
|--|---------------------------|
| · Information on basic physical and chemical properties | |
| · General Information | |
| · Appearance: | |
| · Form: | Solid |
| · Colour: | White |
| · Odour: | Characteristic |
| · Odour threshold: | Not determined. |
| · pH-value: | Not applicable. |
| · Change in condition | |
| · Melting point/Melting range: | 155-158 °C |
| · Boiling point/Boiling range: | Undetermined. |
| · Flash point: | Not applicable. |
| · Flammability (solid, gaseous): | Product is not flammable. |
| · Ignition temperature: | |
| · Decomposition temperature: | 158 °C |

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· Self-igniting:	Not determined.
· Danger of explosion:	Heating may cause an explosion. Explosive when mixed with oxidising substances. Risk of explosion by shock, friction, fire or other sources of ignition.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Slightly soluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
Stable under normal temperatures and pressures.
Heating above 180 °C results in rapid exothermic decomposition.
Heating may cause an explosion.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Strong acids and oxidising agents
- **Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Nitrogen oxides (NO_x)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

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12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** biodegradable
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** Product is not expected to bioaccumulate.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Contact waste processors for recycling information.
Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.
- **European waste catalogue**
Waste key numbers in accordance with the European Waste catalogue (EWC) are origin-referred defined. Since this product is used in several industries, no waste key can be provided by the supplier. The waste key number should be determined in arrangement with your waste disposal partner or the responsible authority.
- **Uncleaned packaging:**
- **Recommendation:**
Disposal must be made according to official regulations.
Container remains hazardous when empty. Continue to observe all precautions.
Do not mix with other waste streams.

14 Transport information

· UN-Number	
· ADR, IMDG, IATA	UN3380
· UN proper shipping name	
· ADR	3380 DESENSITIZED EXPLOSIVE, SOLID, N. O. S. (HOBT)
· IMDG	DESENSITIZED EXPLOSIVE, SOLID, N. O. S. (HOBT)
· IATA	DESENSITIZED EXPLOSIVE, SOLID, N. O. S.

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· **Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class** 4.1 Flammable solids, self-reactive substances and solid desensitized explosives.

· **Label** 4.1

· **Packing group**

· **ADR, IMDG, IATA** I

· **Environmental hazards:**

· **Marine pollutant:** No

· **Special precautions for user** Warning: Flammable solids, self-reactive substances and solid desensitized explosives.

· **Danger code (Kemler):** F1

· **EMS Number:** F-A,S-G

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)** 0

· **Transport category** 1

· **Tunnel restriction code** B

· **UN "Model Regulation":** UN3380, DESENSITIZED EXPLOSIVE, SOLID, N. O. S. (HOBT), 4.1, I

15 Regulatory information

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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