

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

ProductName : 1-Hydroxy-7-azabenzotriazole solution

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment
May cause harm to the unborn child. Also harmful by inhalation and in contact with skin. Irritating to eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : HOAt
3 H -[1,2,3]-Triazolo[4,5- b]pyridin-3-ol

Formula : C5H4N4O

CAS-No.	EC-No.		Classification	Concentration
N,N-Dimethylformamide 68-12-2	200-679-5	-	T, Repr.Cat.2, R61 - R20/21 - R36	>= 93,1 - <= 93,2 %
1-Hydroxy-7-azabenzotriazole 39968-33-7	-	-	E, Xn, R 2 - R22 - R37/38 - R41	>= 6,8 - <= 6,9 %

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

4. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling
Avoid exposure - obtain special instructions before use.Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Storage
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection
Face shield and safety glasses

Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Form	liquid
Safety data	
pH	no data available
Melting point	no data available
Boiling point	no data available
Flash point	58 °C - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	0,973 g/cm3 at 20 °C
Water solubility	no data available

10. STABILITY AND REACTIVITY

Storage stability
Stable under recommended storage conditions.

Materials to avoid
Strong oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute toxicity
no data available

Irritation and corrosion
no data available

Sensitisation
no data available

Chronic exposure

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (N,N-Dimethylformamide)

Signs and Symptoms of Exposure
Abdominal pain, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation	Harmful if inhaled. May cause respiratory tract irritation.
Skin	Harmful if absorbed through skin. May cause skin irritation.
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.
Target Organs	Liver, Kidney, Central nervous system, Cardiovascular system., Blood,

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)
no data available

Ecotoxicity effects
no data available

Further information on ecology
no data available

13. DISPOSAL CONSIDERATIONS

Product
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID
UN-Number: 1993 Class: 3 Packing group: III
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (N,N-Dimethylformamide, 1-Hydroxy-7-azabenzotriazole)

IMDG
UN-Number: 1993 Class: 3 Packing group: III EMS-No: F-E, S-E
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (N,N-Dimethylformamide, 1-Hydroxy-7-azabenzotriazole)
Marine pollutant: No

IATA
UN-Number: 1993 Class: 3 Packing group: III
Proper shipping name: Flammable liquid n.o.s. (N,N-Dimethylformamide, 1-Hydroxy-7-azabenzotriazole)

15. REGULATORY INFORMATION

Labelling according to EC Directives

Hazard symbols	
T	Toxic
R-phrase(s)	
R61	May cause harm to the unborn child.
R20/21	Also harmful by inhalation and in contact with skin.
R36	Irritating to eyes.
S-phrase(s)	
S53	Avoid exposure - obtain special instructions before use.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37	Wear suitable protective clothing and gloves.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Restricted to professional users.	
Hazardous components which must be listed on the label:	
68-12-2	N,N-Dimethylformamide

16. OTHER INFORMATION

Text of R-phrases mentioned in Section 3

R2	Risk of explosion by shock, friction, fire or other sources of ignition.
R20/21	Harmful by inhalation and in contact with skin.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R61	May cause harm to the unborn child.

Further information
For R&D use only. Not for drug, household or other uses.
WARRANTY:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.