

Material Safety Data Sheet

Ammonium Sulphide Solution 20

Version 1.00

Revision Date 05.08.2005



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

Trade name Ammonium Sulphide Solution 20

Company Hitech Chemicals

2. Composition/information on ingredients

ammonium polysulphides

content: ≥ 15.00 - ≤ 25.00 %

CAS-No. 12135-76-1

Index-No. 016-008-00-2

EG-Nr.: 235-223-4

Symbol(s) C, N

R-phrase(s) -R31 -R34 -R50

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

3. Hazards identification

Identification of the risks

R10 Flammable.
R31 Contact with acids liberates toxic gas.
R34 Causes burns.
R50 Very toxic to aquatic organisms.

4. First aid measures

General advice In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, seek medical advice

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	<i>immediately.</i>
Skin contact	<i>Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. Call a physician immediately.</i>
Eye contact	<i>Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Protect unharmed eye.</i>
Ingestion	<i>If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.</i>

Notes to physician

Risks *corrosive effects sensitising effects*

5. Fire-fighting measures

Suitable extinguishing media	<i>water spray, dry powder, foam, carbon dioxide (CO2)</i>
Specific hazards during fire fighting	<i>Do not allow run-off from fire fighting to enter drains or water courses.</i>
Special protective equipment for fire-fighters	<i>Wear self-contained breathing apparatus and protective suit.</i>
Further information	<i>In the event of fire, cool tanks with water spray.</i>

6. Accidental release measures

Personal precautions	<i>Use personal protective equipment. Do not breathe vapours or spray mist.</i>
Environmental precautions	<i>Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.</i>
Methods for cleaning up	<i>Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).</i>
Additional advice	<i>Never return spills in original containers for re-use.</i>

7. Handling and storage

Handling

Safe handling advice	<i>Wear personal protective equipment. Do not breathe vapours or spray mist. Avoid contact with skin and eyes.</i>
Advice on protection against fire and explosion	<i>Provide sufficient air exchange and/or exhaust in work rooms.</i>

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Storage

Requirements for storage areas and containers Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

no data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

no data available

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Respiratory protection suitable respiratory equipment:

Hand protection solvent-resistant gloves

Eye protection face-shield

Skin and body protection protective suit

Hygiene measures Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

Protective measures Do not breathe vapours or spray mist. Avoid contact with the skin and the eyes. Wear suitable protective equipment.

9. Physical and chemical properties

Form	liquid
Colour	light green
Odour	ammoniacal strong
pH	10.3
	no data available
Flash point	22 °C
Ignition temperature	no data available

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Lower explosion limit	<i>no data available</i>
Upper explosion limit	<i>no data available</i>
Vapour pressure	<i>no data available</i>
Density	<i>0.978 g/cm³; 20 °C</i>
Bulk density	<i>not applicable</i>
Water solubility	<i>completely soluble, completely miscible</i>
Partition coefficient (n-octanol/water)	<i>POW: 1</i>
Viscosity, dynamic	<i>0.86 mPa.s</i>
Viscosity, kinematic	<i>not applicable</i>
Relative vapour density	<i>not applicable</i>

10. Stability and reactivity

Hazardous decomposition products *Stable under normal conditions.*

11. Toxicological information

Further information *no data available*

12. Ecological information

Ecotoxicity effects

General advice *no data available*

13. Disposal considerations

Product *Dispose of in accordance with local regulations.*

Contaminated packaging *Store containers and offer for recycling of material when in accordance with the local regulations.*

14. Transport information

ADR *UN-No: 2683; Class: 8, (3, 6.1); Packaging group: II; CFT;
Description of the goods: AMMONIUM SULPHIDE SOLUTION*

RID *UN-No: 2683; Class: 8, (3, 6.1); Description of the goods:
AMMONIUM SULPHIDE SOLUTION*

ADNR *UN-No: 2683; Class: 8, (3, 6.1); Packaging group: II;
Description of the goods: AMMONIUM SULPHIDE SOLUTION*

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IMDG UN-No: 2683; Class: 8, (3, 6.1); EmS: F-E, S-C; Packaging group: II; Description of the goods: AMMONIUM SULPHIDE SOLUTION

ICAO/IATA UN-No : 2683; Class: 8, (3, 6.1); Packaging group: II; Description of the goods: Ammonium sulphide solution

15. Regulatory information

Labelling

Regulatory base 1999/45/EC

Symbol(s) N: Dangerous for the environment
C: Corrosive

R-phrase(s) R10: Flammable.
R31: Contact with acids liberates toxic gas.
R34: Causes burns.
R50: Very toxic to aquatic organisms.

S-phrase(s) S 7: Keep container tightly closed.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S57: Use appropriate container to avoid environmental contamination.
S60: This material and its container must be disposed of as hazardous waste.

Hazardous components which must be listed on the label ammonium polysulphides

16. Other information

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

R10 Flammable.
R31 Contact with acids liberates toxic gas.
R34 Causes burns.
R50 Very toxic to aquatic organisms.



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This MSDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product, and in particular how to safely handle, use, store and transport the product in the workplace. Since we cannot anticipate or control conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review this MSDS in the context of how the user intends to handle, use, store or transport the product in the workplace and beyond, and communicate such information to all relevant parties. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

We shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given unless there has been gross negligence on our part. In such event our liability shall be limited only to direct damages suffered. Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request. All risk associated with the possession and application of the product passes on delivery.