



MATERIAL SAFETY DATA SHEET  
Ammonia Reagent 1

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Ammonia Reagent 1  
**Catalog Numbers:** A/3371/25  
**Synonyms:** None.  
**Company Identification:** Fisher Scientific UK  
 Bishop Meadow Road, Loughborough  
 Leics. LE11 5RG  
**For information in Europe, call:** (01509) 231166  
**Emergency Number, Europe:** 01509 231166

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#	Hazard Symbols:	Risk Phrases:
6381-92-6	Disodium ethylenediaminetetraacetate dihydrate	8.0	unlisted		

Text for R-phrases: see Section 16

**Hazard Symbols:** None listed

**Risk Phrases:** None listed

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

*Not available*

#### Potential Health Effects

**Eye:** May cause eye irritation.  
**Skin:** Low hazard for usual industrial handling.  
**Ingestion:** May cause irritation of the digestive tract.  
**Inhalation:** May cause respiratory tract irritation.  
**Chronic:** No information found.

### Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
**Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.  
**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.  
**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Notes to Physician:**

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes. Avoid ingestion and inhalation.

**Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**  
Good general ventilation should be sufficient to control airborne levels.

**Exposure Limits**

CAS# 139-33-3:

CAS# 6381-92-6:

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Color:** colorless

**Odor:** Not available

**pH:** Not available

**Vapor Pressure:** Not available

**Viscosity:** Not available

**Boiling Point:** Not available

**Freezing/Melting Point:** Not available

**Autoignition Temperature:** Not applicable

**Flash Point:** Not applicable.

**Explosion Limits: Lower:** Not available

**Explosion Limits: Upper:** Not available

**Decomposition Temperature:** Not available

**Solubility in water:** Miscible with water.

**Specific Gravity/Density:** 1.04 @ 20 C

**Molecular Formula:** Mixture

**Molecular Weight:**

### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Incompatible materials.  
**Incompatibilities with Other Materials** Not available  
**Hazardous Decomposition Products** Nitrogen oxides, carbon monoxide, carbon dioxide.  
**Hazardous Polymerization** Has not been reported.

### Section 11 - Toxicological Information

**RTECS#:** CAS# 139-33-3: AH4375000  
CAS# 6381-92-6: AH4410000

**LD50/LC50:** RTECS:  
**CAS# 139-33-3:** Oral, mouse: LD50 = 2050 mg/kg;  
Oral, rabbit: LD50 = 2300 mg/kg;  
Oral, rat: LD50 = 2 gm/kg;

RTECS:  
**CAS# 6381-92-6:**

**Carcinogenicity:** Disodium EDTA anhydrous - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
Disodium ethylenediaminetetraacetate dihydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** See actual entry in RTECS for complete information.

### Section 12 - Ecological Information

Not available

### Section 13 - Disposal Considerations

Products considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local authority or advice. Empty containers must be decontaminated before returning for recycling.

### Section 14 - Transport Information

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	Not regulated as a hazardous material	Not regulated as a hazardous material	Not regulated as a hazardous material
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

### Section 15 - Regulatory Information

#### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 139-33-3: 2

CAS# 6381-92-6: 2

Canada

CAS# 139-33-3 is listed on Canada's DSL List

CAS# 6381-92-6 is listed on Canada's DSL List

**US Federal**

TSCA

CAS# 139-33-3 is listed on the TSCA Inventory.

CAS# 6381-92-6 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the Inventory (40CFR720.3(u)(2)).

**Section 16 - Other Information**

**Text for R-phrases from Section 2**

**MSDS Creation Date:** 12/12/1997

**Revision #4 Date** 3/16/2007

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.*

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