

## 1. Identification

**Product identifier** Hinder®  
**Other means of identification**  
**SDS number** 307  
**Recommended use** Deer and Rabbit Repellent.  
**Recommended restrictions** Keep out of the Reach of Children!  
**Product registration number** 5481-508  
**Pest Control Products Act (Canada)** WHMIS: 26626

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

**Company name** AMVAC Chemical Corporation  
**Address** 4100 E Washington Blvd  
 Los Angeles, CA 90023 USA  
**Telephone** AMVAC Chemical Corp 323-264-3910  
 AMVAC Chemical Corp 323-268-1028 (FAX)  
**Website** www.Amvac-Chemical.com  
**E-mail** CustServ@Amvac-Chemical.com  
**Emergency phone number** Medical 888-681-4261  
 CHEMTREC® (USA+Canada) 800-424-9300  
 Product Use 888-462-6822  
 CHEMTREC® (Outside USA) +1-703-527-3887

## 2. Hazard(s) identification

**Physical hazards** Not classified.  
**Health hazards** Serious eye damage/eye irritation Category 1  
**Environmental hazards** Not classified.  
**OSHA defined hazards** Not classified.

#### Label elements



**Signal word** Danger  
**Hazard statement** Causes serious eye damage.  
**Precautionary statement**  
**Prevention** Wear eye/face protection.  
**Response** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.  
**Storage** Store away from incompatible materials.  
**Disposal** Dispose of waste and residues in accordance with local authority requirements.  
**Hazard(s) not otherwise classified (HNOC)** None known.

## Supplemental information

United States Environmental Protection Agency Labeling Requirements: This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS.

**DANGER:** Causes irreversible eye damage. Do not get in eyes or on clothing. Avoid breathing vapor or spray mist. Wear safety glasses when handling. Wash thoroughly with soap and water after handling. Remove and launder contaminated clothing before reuse.

### ENVIRONMENTAL HAZARDS

This product may be hazardous to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

## 3. Composition/information on ingredients

### Mixtures

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

| Chemical name                       | Common name and synonyms | CAS number | %    |
|-------------------------------------|--------------------------|------------|------|
| Inert Ingredients                   |                          | 7732-18-5  | 86.2 |
| Ammonium salt of higher fatty acids |                          | Mixture    | 13.8 |

### Residuals

| Chemical name | CAS number | %  |
|---------------|------------|----|
| AMMONIA       | 7664-41-7  | ~1 |

**Composition comments** Occupational Exposure Limits for residuals are listed in Section 8.

## 4. First-aid measures

### Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

### Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

### Ingestion

Rinse mouth. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

### Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

### Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

### Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

### Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

### Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

### General fire hazards

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Disperses in water. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Clean surface thoroughly to remove residual contamination.

### Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

### Precautions for safe handling

Do not get this material in contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Residuals                  | Type | Value                          |
|----------------------------|------|--------------------------------|
| AMMONIA<br>(CAS 7664-41-7) | PEL  | 35 mg/m <sup>3</sup><br>50 ppm |

#### US. ACGIH Threshold Limit Values

| Residuals                  | Type | Value  |
|----------------------------|------|--------|
| AMMONIA<br>(CAS 7664-41-7) | STEL | 35 ppm |
|                            | TWA  | 25 ppm |

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Residuals                  | Type | Value                          |
|----------------------------|------|--------------------------------|
| AMMONIA<br>(CAS 7664-41-7) | STEL | 27 mg/m <sup>3</sup><br>35 ppm |
|                            | TWA  | 18 mg/m <sup>3</sup><br>25 ppm |

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

#### Skin protection

##### Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

##### Other

Wear suitable protective clothing.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

#### Thermal hazards

Not available.

### General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

Brown liquid

|   |                          |
|---|--------------------------|
| <b>Physical state</b>                               | Liquid.                  |
| <b>Form</b>   | Liquid.                  |
| <b>Color</b>  | Brown.                   |
| <b>Odor</b>   | Ammonia odor             |
| <b>Odor threshold</b>                               | Not established          |
| <b>pH</b>   | 9 - 10                   |
| <b>Melting point/freezing point</b>                 | 30 °F (-1 °C)            |
| <b>Initial boiling point and boiling range</b>      | 214 °F (101 °C)          |
| <b>Flash point</b>                                  | Not available.           |
| <b>Evaporation rate</b>                             | 1.0 as compared to water |
| <b>Flammability (solid, gas)</b>                    | Not applicable.          |
| <b>Upper/lower flammability or explosive limits</b> |                          |
| <b>Flammability limit - lower (%)</b>               | Not available.           |
| <b>Flammability limit - upper (%)</b>               | Not available.           |
| <b>Explosive limit - lower (%)</b>                  | Not available.           |
| <b>Explosive limit - upper (%)</b>                  | Not available.           |
| <b>Vapor pressure</b>                               | 1.70E+01 mm Hg @ 20°C    |
| <b>Vapor density</b>                                | Not determined           |
| <b>Relative density</b>                             | Not available.           |
| <b>Solubility(ies)</b>                              |                          |
| <b>Solubility (water)</b>                           | Disperses                |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available            |
| <b>Auto-ignition temperature</b>                    | Not available.           |
| <b>Decomposition temperature</b>                    | Not available.           |
| <b>Viscosity</b>                                    | Not available.           |
| <b>Other information</b>                            |                          |
| <b>Density</b>                                      | 8.20 lb/gal              |
| <b>Percent volatile</b>                             | Approx 80%               |
| <b>Specific gravity</b>                             | 0.98 @ 20°C/4°C          |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | Strong oxidizing agents.  |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | No adverse effects due to inhalation are expected.   |
| <b>Skin contact</b> | No adverse effects due to skin contact are expected. |
| <b>Eye contact</b>  | Causes serious eye damage.                           |
| <b>Ingestion</b>    | Expected to be a low ingestion hazard.               |

|   |  |
|---|--|
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. |
|---|--|

## Information on toxicological effects

### Acute toxicity

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

#### Irritation Corrosion - Skin

Hinder®

, May cause irritation  
Organ: skin

**Serious eye damage/eye irritation** Causes serious eye damage.

#### Irritation Corrosion - Eye

Hinder®

, May cause irreversible eye damage  
Organ: eye

### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

#### Skin sensitization

Hinder®

, No evidence of sensitization  
Result: none  
Organ: skin

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

### Carcinogenicity

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Residuals

### Species

### Test Results

AMMONIA (CAS 7664-41-7)

#### Aquatic

Fish

LC50

Chinook salmon (*Oncorhynchus tshawytscha*)

0.43 - 0.47 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of container and residues in accordance with all applicable regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. Transport information****DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**15. Regulatory information****US federal regulations**

This product is currently registered under EPA/FIFRA Regulations. It is a violation of Federal law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

AMMONIA (CAS 7664-41-7) Listed.

**SARA 304 Emergency release notification**

AMMONIA (CAS 7664-41-7) 100 LBS

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**

Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

| Chemical name | CAS number | Reportable quantity | Threshold planning quantity | Threshold planning quantity, lower value | Threshold planning quantity, upper value |
|---------------|------------|---------------------|-----------------------------|--|--|
| AMMONIA       | 7664-41-7  | 100                 | 500 lbs                     |  |  |

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---------------|------------|----------|
| AMMONIA       | 7664-41-7  | ~1       |

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

AMMONIA (CAS 7664-41-7)

**Safe Drinking Water Act (SDWA)** Not regulated.

**US state regulations****US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

AMMONIA (CAS 7664-41-7)

## US. Massachusetts RTK - Substance List

AMMONIA (CAS 7664-41-7)

## US. New Jersey Worker and Community Right-to-Know Act

AMMONIA (CAS 7664-41-7)

## US. Pennsylvania Worker and Community Right-to-Know Law

AMMONIA (CAS 7664-41-7)

## US. Rhode Island RTK

AMMONIA (CAS 7664-41-7)

## US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## International Inventories

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | No                     |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

**Issue date** 05-13-2015

**References** ACGIH®: American Conference of Governmental Industrial Hygienists  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act  
EPA: Environmental Protection Agency  
FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act  
IARC: International Agency for Research on Cancer  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Agency  
SARA: Superfund Amendments and Reauthorization Act  
TSCA: Toxic Substances Control Act  
DOT: Department of Transportation  
IMDG: International Maritime Dangerous Goods  
IATA: International Air Transport Association

**Version #** 01

**Further information** Not available.

**HMIS® ratings** Health: 3  
Flammability: 0  
Physical hazard: 0

**NFPA ratings** Health: 3  
Flammability: 0  
Instability: 0

**Disclaimer** AMVAC Chemical Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. This information is provided for the limited guidance to the user. While AMVAC believes that the information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability or fitness for a particular purpose or otherwise is made hereunder with respect to the information or the product to which the information relates.

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**Revision Information** Product and Company Identification: Product and Company Identification  
Composition / Information on Ingredients: Ingredients  
Physical & Chemical Properties: Multiple Properties  
HazReg Data: International Inventories  
GHS: Classification