

SAFETY DATA SHEET

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 Childr	en!	
Product registration number	5481-508		
Pest Control Products Act (Canada)	WHMIS: 26626		
Manufacturer/Importer/Supplier/I	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	B (FAX)
Website	www.Amvac-Chemical.com		
E-mail	CustServ@Amvac-Chemical.co		
Emergency phone number		888-681-4261	
	CHEMTREC® (USA+Canada) Product Use	800-424-9300 888-462-6822	
	CHEMTREC® (Outside USA)	+1-703-527-38	
		11700 027 00	
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.		
l abel elements			

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.

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 I	isted in Section 8.	
4. First-aid measures			
nhalation	Move to fresh air. Call a physician if symptoms c	levelop or persist.	
Skin contact	Wash off with soap and water. Get medical atter	ntion if irritation develops a	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.		
ngestion	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 s Symptoms may be delayed.	symptomatically. Keep vic	tim under observa
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 (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this w	vill 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 prote	ective clothing must be wo	orn 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 consid	er the hazards of other inv	volved 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.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	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 sofe storage	Store in original tightly closed container. Store away from incompatible materials (acc Section 10

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

Residuals	Туре	Value	
AMMONIA (CAS 7664-41-7)	PEL	35 mg/m3	
		50 ppm	
US. ACGIH Threshold Lim	hit Values		
Residuals	Туре	Value	
AMMONIA (CAS 7664-41-7)	STEL	35 ppm	
	TWA	25 ppm	
US. NIOSH: Pocket Guide	to Chemical Hazards		
Residuals	Туре	Value	
AMMONIA (CAS 7664-41-7)	STEL	27 mg/m3	
		35 ppm	
	TWA	18 mg/m3	
		25 ppm	
logical limit values	No biological exposure limits noted	• • • • •	
propriate engineering htrols	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.		
ividual protection measure	s, such as personal protective equip	ment	
Eye/face protection	Wear safety glasses with side shield	ds (or goggles) and a face shield.	
Skin protection			
Hand protection	For prolonged or repeated skin cont	tact use suitable protective gloves.	
Other	Wear suitable protective clothing.		
Respiratory protection	In case of insufficient ventilation, we	ear suitable respiratory equipment.	
Thermal hazards	Not available.		
neral hygiene nsiderations	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

Brown liquid

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Brown.
Odor	Ammonia odor
Odor threshold	Not established
рН	9 - 10
Melting point/freezing point	30 °F (-1 °C)
Initial boiling point and boiling range	214 °F (101 °C)
Flash point	Not available.
Evaporation rate	1.0 as compared to water
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	1.70E+01 mm Hg @ 20°C
Vapor density	Not determined
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Disperses
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	8.20 lb/gal
Percent volatile	Approx 80%
Specific gravity	0.98 @ 20°C/4°C
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Bossibility of bozordous	No dependence reaction known under conditions of normal use

Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes serious eye damage.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

	ects			
Acute toxicity Skin corrosion/irritation	Prolonged	skin contact may cause temporary irrita	tion	
Irritation Corrosion - Sk	Prolonged skin contact may cause temporary irritation.			
Hinder®	lin	, May cause irritatio	n	
		Organ: skin		
Serious eye damage/eye	Causes serious eye damage.			
irritation				
Irritation Corrosion - Ey Hinder®	/e			
ппаете		, May cause irrever Organ: eye	Sible eye damage	
Respiratory or skin sensitization	n	<u> </u>		
Respiratory sensitization		iratory sensitizer.		
Skin sensitization	This produ	ct is not expected to cause skin sensitiz	ation.	
Skin sensitization	·	·		
Hinder®		, No evidence of se	ensitization	
		Result: none Organ: skin		
Germ cell mutagenicity	No data av	railable to indicate product or any compo	points present at greater than 0.1% are	
Gerni cen mutagementy		or genotoxic.	fients present at greater than 0.1 % are	
Carcinogenicity				
OSHA Specifically Regulate	d Substance	es (29 CFR 1910.1001-1050)		
Not listed.		. ,		
Reproductive toxicity	This produ	ct is not expected to cause reproductive	or developmental effects.	
Specific target organ toxicity -	Not classifi	ied.		
single exposure				
Specific target organ toxicity -	Not classifi	ied.		
repeated exposure				
Aspiration hazard	Not an asp	viration hazard.		
12. Ecological information	,			
Ecotoxicity		ct is not classified as environmentally ha	zardous. However, this does not exclude the	
			armful or damaging effect on the environment.	
Residuals		Species	Test Results	
AMMONIA (CAS 7664-41-7)		•		
Aquatic				
Aquatic	LC50	Chinook salmon (Oncorhynchus	0.43 - 0.47 mg/l, 96 hours	
Aquatic	LC50	Chinook salmon (Oncorhynchus tshawytscha)	0.43 - 0.47 mg/l, 96 hours	
Aquatic Fish		tshawytscha)	0.43 - 0.47 mg/l, 96 hours	
Aquatic Fish * Estimates for product may b	be based on a	tshawytscha) additional component data not shown.		
Aquatic Fish * Estimates for product may b Persistence and degradability	e based on a No data is	tshawytscha) additional component data not shown. available on the degradability of this pro		
Aquatic Fish * Estimates for product may b Persistence and degradability Bioaccumulative potential	e based on a No data is No data av	tshawytscha) additional component data not shown. available on the degradability of this pro railable.		
Aquatic Fish * Estimates for product may b Persistence and degradability Bioaccumulative potential Mobility in soil	be based on a No data is No data av No data av	tshawytscha) additional component data not shown. available on the degradability of this pro railable. railable.	duct.	
Aquatic Fish * Estimates for product may b Persistence and degradability Bioaccumulative potential Mobility in soil	be based on a No data is No data av No data av No data av No other av	tshawytscha) additional component data not shown. available on the degradability of this pro railable. railable. dverse environmental effects (e.g. ozono	duct. e depletion, photochemical ozone creation	
Aquatic Fish * Estimates for product may b Persistence and degradability Bioaccumulative potential Mobility in soil Other adverse effects	be based on a No data is No data av No data av No other av potential, e	tshawytscha) additional component data not shown. available on the degradability of this pro railable. railable. dverse environmental effects (e.g. ozono	duct.	
Aquatic Fish * Estimates for product may b Persistence and degradability Bioaccumulative potential Mobility in soil Other adverse effects 13. Disposal consideration	be based on a No data is No data av No data av No data av No other a potential, e	tshawytscha) additional component data not shown. available on the degradability of this pro vailable. vailable. dverse environmental effects (e.g. ozono endocrine disruption, global warming pot	e depletion, photochemical ozone creation ential) are expected from this component.	
Aquatic Fish * Estimates for product may b Persistence and degradability Bioaccumulative potential Mobility in soil Other adverse effects 13. Disposal consideration	be based on a No data is No data av No data av No other a potential, e ns Collect and	tshawytscha) additional component data not shown. available on the degradability of this pro vailable. dverse environmental effects (e.g. ozone endocrine disruption, global warming pot	duct. e depletion, photochemical ozone creation ential) are expected from this component. s at licensed waste disposal site. Dispose of	
Aquatic Fish * Estimates for product may b Persistence and degradability Bioaccumulative potential Mobility in soil Other adverse effects 13. Disposal consideration Disposal instructions	be based on a No data is No data av No data av No other av potential, e ns Collect and contents/co	tshawytscha) additional component data not shown. available on the degradability of this pro- railable. dverse environmental effects (e.g. ozone endocrine disruption, global warming pot d reclaim or dispose in sealed containers ontainer in accordance with local/region	e depletion, photochemical ozone creation ential) are expected from this component. s at licensed waste disposal site. Dispose of al/national/international regulations.	
Aquatic Fish * Estimates for product may b Persistence and degradability Bioaccumulative potential Mobility in soil Other adverse effects 13. Disposal consideration Disposal instructions Local disposal regulations	be based on a No data is No data av No data av No other av potential, e ns Collect and contents/co Dispose in	tshawytscha) additional component data not shown. available on the degradability of this pro- railable. vailable. dverse environmental effects (e.g. ozone endocrine disruption, global warming pot d reclaim or dispose in sealed containers ontainer in accordance with local/regions accordance with all applicable regulation	e depletion, photochemical ozone creation ential) are expected from this component. s at licensed waste disposal site. Dispose of al/national/international regulations. ms.	
Aquatic Fish * Estimates for product may b Persistence and degradability Bioaccumulative potential Mobility in soil Other adverse effects 13. Disposal consideration Disposal instructions Local disposal regulations	be based on a No data is No data av No data av No other av potential, e ns Collect and contents/co Dispose in	tshawytscha) additional component data not shown. available on the degradability of this pro- railable. vailable. dverse environmental effects (e.g. ozone endocrine disruption, global warming pot d reclaim or dispose in sealed containers ontainer in accordance with local/regions accordance with all applicable regulatio code should be assigned in discussion	e depletion, photochemical ozone creation ential) are expected from this component. s at licensed waste disposal site. Dispose of al/national/international regulations.	
Aquatic Fish * Estimates for product may b	be based on a No data is No data av No data av No other au potential, e ns Collect and contents/cd Dispose in The waste disposal co Dispose of	tshawytscha) additional component data not shown. available on the degradability of this pro- railable. dverse environmental effects (e.g. ozone endocrine disruption, global warming pot d reclaim or dispose in sealed containers ontainer in accordance with local/regiona accordance with all applicable regulation code should be assigned in discussion ompany.	e depletion, photochemical ozone creation ential) are expected from this component. s at licensed waste disposal site. Dispose of al/national/international regulations. ins. between the user, the producer and the waste vith all applicable regulations. Empty containers	
Aquatic Fish * Estimates for product may b Persistence and degradability Bioaccumulative potential Mobility in soil Other adverse effects 13. Disposal consideration Disposal instructions Local disposal regulations Hazardous waste code	be based on a No data is No data av No data av No other au potential, e ns Collect and contents/cd Dispose in The waste disposal co Dispose of or liners ma	tshawytscha) additional component data not shown. available on the degradability of this pro- railable. dverse environmental effects (e.g. ozone endocrine disruption, global warming pot d reclaim or dispose in sealed containers ontainer in accordance with local/regiona accordance with all applicable regulation code should be assigned in discussion ompany.	e depletion, photochemical ozone creation ential) are expected from this component. s at licensed waste disposal site. Dispose of al/national/international regulations. Ins. between the user, the producer and the waste	

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.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

15. Regulatory information

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.

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TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)								
Not regulated.								
CERCLA Hazardous Si	CERCLA Hazardous Substance List (40 CFR 302.4)							
AMMONIA (CAS 76	64-41-7)		Listed.					
SARA 304 Emergency	release notificatio	on						
AMMONIA (CAS 76	64-41-7)		100 LBS					
OSHA Specifically Reg	ulated Substance	s (29 CFR 1910	.1001-1050)					
Not listed.								
Superfund Amendments an	nd Reauthorizatio	n Act of 1986 (S	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	Threshold					

Chemical name	C	AS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
AMMONIA	76	64-41-7	100	500 lbs		
SARA 311/312 H chemical	lazardous	No				
SARA 313 (TRI)	reporting)					
Chemical n	ame			CAS number	% by wt.	
AMMONIA				7664-41-7	~1	
Other federal regula	tions					
Clean Air Act (C	AA) Sectio	n 112 Hazard	ous Air Polluta	nts (HAPs) List		
Not regulate	d.					
Clean Air Act (C	AA) Sectio	n 112(r) Accie	dental Release	Prevention (40 CFR 6	8.130)	
AMMONIA (CAS 7664-4	1-7)				
Safe Drinking W (SDWA)	/ater Act	Not regulat	ed.			
US state regulations	6					
US. California C	ontrolled S	ubstances. C	A Department	of Justice (California	Health and Safety Cod	de Section 11100)
Not listed.						
US. California. ((a))	Candidate (Chemicals Lis	t. Safer Consu	mer Products Regulat	tions (Cal. Code Regs	, tit. 22, 69502.3, subd.
AMMONIA (CAS 7664-4	1-7)				

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 United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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

laqua data	05-13-2015
Issue date	
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. 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

On inventory (yes/no)*

No