BEBBINGTON INDUSTRIES SAFETY DATA SHEET AMMONIUM HYDROXIDE 26 BE

SUPPLIER:

BEBBINGTON INDUSTRIES

44 WRIGHT AVENUE
DARTMOUTH, NOVA SCOTIA,
CANADA
B3B 1G6

A IDENTIFICATION

Product Identifier

Product Name: AMMONIUM HYDROXIDE 26 BE

Recommended Use: fertilizer neutralizing agent. House hold cleaner

EMERGENCY NUMBER: CANUTEC 1 613 996 6666

Hazardous Classification of the substance or mixture

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1
Sub-category B	
Serious eye damage/eye irritation	Category 1

Label elements

Hazard pictograms



Signal Word: Danger

Hazard statements

Harmful if swallowed

Harmful if inhaled

Causes severe skin burns and eye damage

Precautionary Statements

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection Do not breathe dust/fume/gas/mist/vapors/spray

Response

IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for severat minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

Wash contaminated ciothing before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Dispose of contents/container to an approved waste disposal plant

Other Information Harmful to aquatic life with long lasting effects

Unknown acute toxicity

No information available

Sacomposition in a sample of the control of the same of the same of the sample of the

Substance

Not applicable

Mixture

Ammonia	Water	Chemical Name
7664-41-7	7732-18-5	CAS No
30 - 40%	70 - 80%	Weight
Ammonia	Water	SWIDING

4. FIRST AID

Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required

Inhalation

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur

Eye contact

medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate

Skin contact

immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get

ingestion

to an unconscious person. Get immediate medical advice/attention. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth

Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed:

possible destruction of tissue. Gastric or esophageal perforation may occur and lung irritation or edema may occur as or mist causes irritation, experienced as stinging, excess blinking and tear production, with excess redness of the conjunctiva. Corrosive! May cause severe pain in the mouth, chest and abdomen, leading to cough, vomiting and a delayed effect. collapse. Direct contact may cause severe irritation and / or burns with symptoms of redness, itching, swelling and Chronic lung disease or residual dysfunction is possible if overexposure has caused lower airway injury. Liquid, vapor develop. Airway obstruction and diminished diffusion capacity and impaired ciliary function may result from exposure Corrosive to eye tissue and may cause severe damage and blindness. Corrosive! Inhalation of ammonia gas can cause irritation and inflammation of the respiratory system resulting in hoarseness and tightness of the throat, laryngitis, tracheltis, bronchopneumonia and pulmonary edema. Productive cough with blood stained sputum may

Indication of any immediate medical attention and special treatment needed:

Note to physicians

Treatment based on sound judgment of physician and individual reactions of patient. Pulmonary edema may be delayed. Injury may be more severe than would be indicated on early presentation.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media appropriate for surrounding fire. Use water spray to cool fire exposed surfaces

Specific hazards arising from the substance or mixture

Emits toxic fumes under fire conditions. The vapors may explode at high temperatures if brought in contact with an ignition source. During a fire, oxides of nitrogen may be produced.

difficult to ignite. Also, a relatively high concentration of the gas is required. However, a large and intense energy source may cause ignition and/or an explosion, particularly in a confined space. Ammonia gas is generally not considered a serious fire or explosion hazard because ammonia-air mixtures are

Hazardous combustion products

Oxides of nitrogen. Ammonia.

equipment. Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection

6. ACCIDENTAL RELEASEMEASURES

Personal precautions, protective equipment and emergency procedures

Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Handle and open containers with care. Protect material from direct sunlight. Protect against physical damage. Corrosivel T material will attack copper, tin, zinc, and their alloys; some forms of rubber, plastics and coatings. Do not store in basement locations. The

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store at ambient temperature. Store in accordance with good industrial practices. Keep away from direct sunlight.

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Control parameters

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Exposure Limits

	OEL	OEL	1		Assim	
Water 7732-18-5	Not available	Not available	Not available	Not available	Not available	Not available
Ammonia	TWA: 25 ppm	TWA: 25 ppm	TWA: 25 ppm	TWA: 25 ppm	35 ppm STE	300 000
7664-41-7		STEL: 35 ppm	STEL: 35 ppm	TWA: 17 ma/m ³	25 ppm	700
	STEL: 35 ppm			STEL: 35 nom	TI V-TWA	
	STEL: 24 mg/m³			STEL: 24 ma/m³		
Consult local authorities for recommended exposure limits	as for roommand					

recommended exposure limits

Appropriate engineering controls

Engineering controlsUse process enclosure, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical goggles; also wear a face shield if splashing hazard exists.

Hand protection

Rubber gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Respiratory protection

If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator. NIOSH / MSHA approved full face air purifying respirator equipped with ammonia cartridges for concentrations up to 250 ppm NH3. An air-supplied respirator if concentrations are higher or unknown.

General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9 PHYSICAL AND SHEMICAL PROPERTIES

Information on basic physical and chemical properties

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Color Physical state

Colorless

Liquid

Odor

Odor threshold

PROPERTIES

Melting point / freezing point -38 °C / -36 °F Initial boiling point/boiling range 48 °C / 118 °F Melting point / freezing point

Evaporation rate Flash point

Values 12 (neat)

No information available

Pungent, irritating.

No data available No data available

Remarks • Method

(@ 20%) (@ 20%)

none known none known

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Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Relative vapor density Relative density Water solubility	No data available 25 16 3.75 psi @ 20°C 0.6 (Ammonia) 0.895	none known none known
Relative density Water solubility	0.895 Soluble in methanol, Water; 100% Soluble in ethanol,	
Solubility in other solvents	No data available	
Partition coefficient Autoignition temperature	No data available	none known
Decomposition temperature	No data available	none known
Kinematic viscosity	No data available	none known
Dynamic viscosity	No data available	none known
Explosive properties Oxidizing properties	No information available.	
Molecular weight VOC Percentage Volatility Liquid Density	No information available No information available No information available	
Bulk density	No information available	

TO STRABILITY AND REAL PROPERTY.

Reactivity/Chemical Stability Stable

Possibility of hazardous reactions No additional remark.

Hazardous polymerization

Will not occur.

Conditions to avoid

calcium, hypo-chlorite mixtures, contact with halogens may cause violent spattering. Adding Sodium Hydroxide to this material and or heating will volatize Ammonia gas. Contact with iodine, bromine,

Incompatible materials

incompatible or has potentially hazardous reactions with Silver, Acetaldehyde, Acrolein, Boron, Halogens, Perchlorate, Chloric Acid, Chlorine Monoxide, Chlorides, Nitrogen Tetroxide, Tin, Sulphur. Zinc. Aluminum and alloys. Contact with copper. Iodine. Acrolein. Tin. Bromine. Strong oxidizers. Strong acids. Halogens. Mineral acids. Ammonia has potentially explosive or violent reactions with interhalogens, strong oxidizers, Nitric Acid, Fluorine, Nitrogen oxide. Ammonia forms sensitive explosive mixtures with air and hydrocarbons, Ethanol, and Silver Nitrate, Chlorine. Explosive products are formed by the reaction of ammonia with Silver Chloride, Silver Oxide, Bromine, Iodine, Gold, Mercury, Tellurium Halldes. Ammonia is ر ار ب

Hazardous decomposition products

Oxides of nitrogen. Ammonia

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Information on likely routes of exposure

Inhalation

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Corrosive! Inhalation of ammonia gas can cause irritation and inflammation of the respiratory system resulting in hoarseness and tightness of the throat, laryngitis, tracheitis, bronchopneumonia and pulmonary edema. Productive cough with blood stained sputum may develop. Airway obstruction and diminished diffusion capacity and impaired ciliary function may result from exposure. Chronic lung disease or residual dysfunction is possible if overexposure has caused lower airway injury.

Corrosive to eye tissue and may cause severe damage and blindness. Liquid, vapor, or mist causes irritation experienced as stinging, excess blinking and tear production, with excess redness of the conjunctiva.

Skin contact

possible destruction of tissue Corrosive. Direct contact may cause severe irritation and / or burns with symptoms of redness, itching, swelling and

Ingestion

Corrosive! May cause severe pain in the mouth, chest and abdomen, leading to cough, vomiting and collapse. Gastric or esophageal perforation may occur and lung irritation or edema may occur as a delayed effect.

Information on toxicological effects

Symptoms

damage may occur without the sensation or onset of pain. Medical conditions that may be aggravated by exposure include asthma, bronchitis, emphysema and other lung diseases and chronic nose, sinus or throat conditions. Corrosive effects on the skin and eyes may be delayed, and

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document ATEmix (oral)

1,167.00 mg/kg

1.67 mg/l

ATEmix

Unknown acute toxicity (inhalation-dust/mist)

No information available

7664-41-7	Amonia	7732-18-5	Water	Chemical Name
= 350 mg/kg (Rat)			> 90 mL/kg (Rat)	Ozal Loso
Not available		1400 0400000	Not available	Demai LD50
= 2000 ppm (Rat) 4 h		I NOT AVAIIABLE	P () () () () () () () () () ()	de la

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

possible destruction of tissue. Corrosive. Direct contact may cause severe irritation and / or burns with symptoms of redness, itching, swelling and

Serious eye damage/eye irritation

Corrosive to eye tissue and may cause severe damage and blindness. Liquid, vapor, or mist causes irritation experienced as stinging, excess blinking and tear production, with excess redness of the conjunctiva.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available

Carcinogenicity

Not listed with IARC, NTP, ACGIH or OSHA as a carcinogen.

Not available	Not available	Not available	Not available	Ammonia 7664-41-7
				7732-18-5
Not available	Not available	Not available	Not available	Water
DONA	NIB	AKC	AUGIH	Chemical Name

Reproductive toxicity
No information available.

Specific target organ systemic toxicity - single exposure No information available.

Specific target organ systemic toxicity - repeated exposure No information available.

Aspiration hazard No information available.

12 SCOLOGICAL INFORMATION

Ecotoxicity

-	_	_		_			- 714								_			
													7664-41-7	Ammonia	7732-18-5	Water		Chemical Name
														Not available		Not available	Algae Data	Ecoloxicity - Freshwater
reticulata) 96 h	mg/L LC50 (Poecilia	promelas) 96 h static 1.5	mg/L LC50 (Pimephales	reticulata) 96 h static 5.9	mg/L LC50 (Poecilia	96 h flow-through 1.19	(Lepomis macrochirus)	96 h 1.17 mg/L LC50	LC50 (Cyprinus carpio)	promelas) 96 h 0.44 mg/L	LC50 (Pimephales	96 h 0.73 - 2.35 mg/L	(Lepomis macrochirus)	0.26 - 4.6 mg/L LC50		Not available	Piner (Piner)	Ecoloxicity - Fish Species
														Not available		Not available	The second of th	100(10)
													Daphnia magna)	LC50: =25.4mg/L (48h,		Not available		I part of change of the con-

Persistence and degradability No information available.

Bioaccumulation

No information available.

Component Information

Ammonia 👍	Water 7732-18-5	Chemical Name
-1.14 s	Not available	Sanitor collision

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Do not reuse empty containers

14. TRANSPORT INFORMATION

TDG (Canada): UN Number

Shipping name UN2672 AMMONIA SOLUTION

Class Packing Group Marine pollutant Not available.

DOT (U.S.)

Shipping name Class **UN Number** œ UN2672 AMMONIA SOLUTION

Marine pollutant Packing Group Not available

VOURSUNDEN WARMAND TO BE SEEN STORY

Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Regulatory Rules

C-01-7011 - 1910AA	Not Listed	Not Listed	Not listed
Ammonia - 7664-41-7	Listed	hetsi	100000
	Lister	Sieo	D D

TSCA DSL/NDSL Complies Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

16. OTHER INFORMATION TIMESUUNISTULTE SERVERARATIONES TILETAR

HMIS Health Rating: H	NEPA:
Health hazards 3	Health hazards 3
Flammability 1	Flammability 1
Physical hazards 0	Instability 0
chemical properties Personal protection X	Physical and

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
TWA TWA (time-weighted average) STEL

Maximum limit value Maximum limit value STEL (Short Term Exposure Limit)
Skin designation

Prepared By:

Ceiling

PREPARED BY BEBBINGTON INDUSTRIES JULY 2023

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