

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

OSTREM CHEMICAL CO. LTD.
2310 - 80 AVENUE
EDMONTON AB T6P 1N2

Phone: 780-440-1911 or 780-446-0177
In Case of Emergency Only:
phone CANUTEC at (613) 996-6666

Product name: AMMONIA 26 DEGREES

Code: J470

Other name:

Distributed by:

Product use: ammonia cleaner

Date completed: April 01, 2014

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	%W/W	CAS number
ammonium hydroxide (29.4% NH ₃)	100	1336-21-6

3. HAZARDS IDENTIFICATION

Corrosive liquid. May be fatal if inhaled or swallowed. Causes severe skin and eye burns. Vapours are extremely irritating to eyes and respiratory tract.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: Induce vomiting only on the direct advice of a poison control centre. Drink 1-2 glasses of milk or water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Eye contact: Flush with plenty of water for at least 30 minutes, preferably 60 minutes. Hold eyelids open during flushing. After flushing, seek medical attention.

Skin contact: Remove contaminated clothing and flush with plenty of water for at least 30 minutes. Seek immediate medical attention.

5. FIRE - FIGHTING MEASURES

Flash point (test method): Not applicable

Flammable limits (%): Non-flammable

Lower: Not applicable

Upper: Not applicable

Fire extinguishing substances: Use water fog, CO₂ or dry chemical.

Autoignition temperatures: Not applicable

Hazardous combustion products: May liberate carbon monoxide, carbon dioxide and ammonia.

Explosion data:

Sensitivity to mechanical impact: Not applicable

Sensitivity to static discharge: Not applicable

Special firefighting procedures: Use fog to drift over liquid while flushing. Self contained breathing apparatus should be worn.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear appropriate protective equipment.

Environmental precautions: Prevent from entering sewers, waterways or low areas.

Methods for cleaning up: Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers.

Clean up residual with absorbent material, place in appropriate container and flush with water.

7. HANDLING AND STORAGE

Handling: Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage: Keep out of reach of children. Keep container tightly closed. Store in a cool, dry area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Provide exhaust ventilation to keep airborne levels below recommended exposure limits.
Respiratory protection: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator
Eye protection: Chemical goggles. Wear a face shield if splashing hazards exists.
Other protection: Wear protective clothing as necessary to prevent skin contact.

Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
ammonium hydroxide	TLV (STEL)	35 ppm	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid	Solubility in water: Complete
Boiling point: 26C	Vapour pressure: 475 mm Hg @ 15.5C
Vapour density: 0.6	Evaporation rate: Not available
Freezing point: -75C	Odour threshold: Not available
Sp. Gravity: 0.9	pH: highly alkaline
Appearance & odour:	colourless liquid with pungent odour

10. STABILITY AND REACTIVITY

Stability: Stable
Conditions of instability: Not available
Incompatibility: () Water (X) Oxidizers (X) Acid () Base (X) Other: calcium hypochlorite, bleach, gold, mercury and silver
Conditions of reactivity: Not available
Hazardous decomposition products: ammonia

11. TOXICOLOGICAL PROPERTIES

POTENTIAL ACUTE HEALTH EFFECTS

Inhalation: Corrosive! Causes severe irritation of the nose, throat and respiratory tract.
Ingestion: Corrosive! This product causes severe burning and pain in the mouth, throat and abdomen. Vomiting, diarrhea and perforation of the esophagus and stomach lining may occur.
Eye contact: Extremely corrosive! Causes corneal scarring and clouding. Glaucoma, cataracts and permanent blindness may occur.
Skin contact: Corrosive! Burns can occur if not promptly removed.
Skin absorption: Not available

POTENTIAL CHRONIC HEALTH EFFECTS:

Inhalation: Repeat or prolonged exposure may cause productive cough, running nose, bronchopneumonia, pulmonary oedema and reduction of pulmonary function. Can cause injury to entire respiratory tract. Severe exposure may cause lung damage.
Ingestion: Perforation of the esophagus and stomach lining may occur.
Eye contact: Prolonged contact may lead to cataracts, glaucoma and permanent blindness.
Skin contact: Prolonged contact may cause dermatitis or chemical burns. Toxic effects may be delayed.

Skin absorption: Not available
Irritancy of product: See WHMIS criteria
Sensitization of product: Not available
Carcinogenicity: IARC (1, 2A or 2B) No known significant effects.
ACGIH: (A1, A2 or A3) No known significant effects.
Reproductive toxicity: No known significant effects.
Teratogenicity: No known significant effects.
Mutagenicity: No known significant effects.
Synergistic product: Not available

HAZARDOUS INGREDIENTS
ammonium hydroxide

CAS NO. TOXICITY DATA
1336-21-6 LD₅₀ Oral (rat) 350 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicological information: Not available
Other information:

13. DISPOSAL CONSIDERATIONS

Waste disposal: Disposal of all waste must be done according to local, provincial and federal regulations.

14. TRANSPORT INFORMATION

TDG classification: AMMONIA SOLUTION; Class 8; UN 2672; PG III

15. REGULATORY INFORMATION

WHMIS: E Corrosive Material
D1B Material Causing Immediate & Serious Toxic Effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. PREPARATION INFORMATION

Prepared by: Technical Services Department, Ostrem Chemical Co. Ltd., Ph: (780) 440-1911