

Ammonia Safety Related Information

FIRST AID MEASURES



Inhalation:

Toxic by inhalation.
Move victim to open or fresh air.
Call a doctor.



Eye/Skin contact:

If contact with eyes, flush eyes thoroughly with water for at least 15 minutes.
If contact with skin, remove contaminated clothing and wash with plenty of water.
Move to doctor.



Ingestion:

In case of ingestion, do not induce vomiting. Flush mouth with lot of water.



FIRE FIGHTING MEASURES



Flammable Class:

Ammonia is defined as Non flammable.



Specific Hazards:

Exposure to fire may cause containers to explode.



Hazardous Combustion: In case of fire, toxic or corrosive fumes may be produced by thermal decomposition like Nitric oxide.

FIRE EXTINGUISHING MEDIA



Type Extinguishing Media

All known extinguisher can be used.

Health	3
Fire hazard	1
Reactivity	0
Personal protection	C

Specific Methods

Try to, stop leak. Move away from the leak container and cool it with water from a safe distance.



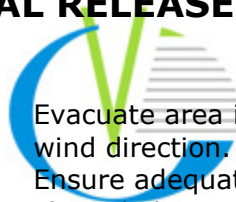
Special Protective Equipment.

Use self contained breathing apparatus 20 to 30 minutes at least and full body covered chemical protective clothing.

ACCIDENTAL RELEASE MEASURES



Personal Protection:



Evacuate area immediately and be opposite side of wind direction.

Ensure adequate air ventilation.

If needed use self contained breathing apparatus and chemically protective clothing.



Environmental Precautions:

Try to stop release.
Start water sprinkler on leak.



Contaminated Area Cleanup Methods:

Ventilate area.
Wash contaminated equipment and leak sites with plenty of water, till Ammonias smell remains.
Keep area evacuated and free from ignition sources until any spilled liquid has evaporated.

OCCUPATIONAL EXPOSURE LIMITS

Ammonia:	25 ppm in India.
Ammonia:	25 / 35 in United Kingdom
Ammonia:	25 / 50 ppm in France
Ammonia:	50 ppm Germany
Ammonia:	50 ppm OSHA / 8 hours.

BUREAU OF INDIAN STANDARDS (BIS)

I.S Code's	Titles
IS 4544:2000	Ammonia - Code of Safety.
IS 1260:Part 1 :1973	Pictorial marking for handling and labeling of goods: Part 1 Dangerous goods.
IS 1446:2002	Classification of Dangerous Goods.
IS 4155:1966	Glossary of terms relating to chemical and radiation hazards and hazardous chemicals.

