



american gas & chemical co. ltd.
220 PEGASUS AVE
NORTHVALE, NEW JERSEY 07647
201-767-7300 FAX 201-767-1741

Safety Data Sheet

Issue Date: 02-Feb-2004

Revision Date: 21-Apr-2022

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Chlorine Vapor Leak Detection Fluid

Other means of identification

SDS # AGC-006

Product Code 112

UN/ID No UN2672

Other Information Package type: Poly Bottles, Gallon Bottles, 5 gallon pails, 55 gallon drums.

Recommended use of the chemical and restrictions on use

Recommended Use Chlorine Vapor Leak Detection Fluid.

Details of the supplier of the safety data sheet

Manufacturer Address

AMERICAN GAS & CHEMICAL COMPANY, LTD
220 Pegasus Avenue
Northvale NJ 07647

Emergency Telephone Number

Company Phone Number Phone: 201-767-7300 Fax: 201-767-1741

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear, deep blue liquid **Physical State** Liquid **Odor** Pungent ammoniacal

Classification

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed

Signal Word

Danger



Hazard Statements

Causes severe skin burns and eye damage
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause respiratory irritation.
May cause drowsiness or dizziness

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
In case of inadequate ventilation wear respiratory protection
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

Immediately call a poison center or doctor/physician
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 or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Immediately call a poison center or doctor/physician
 IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Toxic to aquatic life with long lasting effects

Unknown Acute Toxicity

11.41% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Amine Oxide Surfactant	61788-90-7	12
Ammonium hydroxide	1336-21-6	11
Nonoxynol	9016-45-9	7
Glutaral	111-30-8	1

4. FIRST-AID MEASURES

First Aid Measures**General Advice**

Provide this SDS to medical personnel for treatment.

Eye Contact

If sprayed into the eyes, flush with clear water for 15 minutes or until irritation subsides. Seek immediate medical attention/advice.

Skin Contact

In case of contact, wash skin thoroughly with soap and water. Remove any contaminated clothing and wash before reuse. Call a physician.

Inhalation

If overcome by vapor, remove from exposure and call physician immediately. If breathing is irregular or has stopped, start resuscitation; administer oxygen, if available.

Ingestion

If ingested, do not induce vomiting. Call a physician immediately.

Most important symptoms and effects**Symptoms**

Can cause acute inflammation of respiratory organs, coughing, edema of lungs. Causes eye and skin irritation / damage. Ingestion may cause severe burns to mouth, throat or stomach.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam, dry chemical, CO2, water spray or fog.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Product is not flammable or combustible.

Hazardous Combustion Products When heated, product emits toxic fumes.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool exposed containers with water spray. Avoid breathing vapor or fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Remove all ignition sources. Recover free liquid. Ventilate confined spaces. Wear protective clothing as described in Section 8 of this safety data sheet.
For Emergency Responders	Follow applicable OSHA regulations (29 CFR 1910.120).
Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so. Absorbent such as sand, sawdust, etc. to spill area.
Methods for Clean-Up	Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Use only with adequate ventilation. In case of inadequate ventilation wear respiratory protection.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers closed when not in use. Do not handle or store near heat, sparks, flame or strong oxidants.
Incompatible Materials	Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glutaral 111-30-8	Ceiling: 0.05 ppm activated and inactivated	(vacated) Ceiling: 0.2 ppm (vacated) Ceiling: 0.8 mg/m ³	Ceiling: 0.2 ppm Ceiling: 0.8 mg/m ³

Appropriate engineering controls

Engineering Controls	VENTILATION: Use with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking or open lights. Eyewash stations.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	Use splash goggles or face shield when contact may occur.
Skin and Body Protection	Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact. Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.
Respiratory Protection	Use supplied-air respiratory protection in confined or enclosed spaces.
General Hygiene Considerations	Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Pungent ammoniacal
Appearance	Clear, deep blue liquid	Odor Threshold	Not determined
Color	Clear, deep blue	Remarks • Method	
Property	Values		
pH	11.0-12.0		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	100°C / 212°F		
Flash Point	None		
Evaporation Rate	<1		(Water = 1)

Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	17.5 mm Hg	@68°F (20°C)
Vapor Density	>1	(Air=1)
Specific Gravity	1.00-1.02	
Water Solubility	Soluble in water	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
Additional Information	Percent volatile: 90+	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

Acids.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Causes severe eye damage.
Skin Contact	Causes severe skin burns.
Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Ingestion	May be harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts.

Component Information

Chemical Name	Oral	Dermal LD50	Inhalation LC50
Ammonium hydroxide 1336-21-6	= 350 mg/kg (Rat)	-	-
Nonoxynol 9016-45-9	= 1310 mg/kg (Rat)	= 2 mL/kg (Rabbit)	-
Glutaral 111-30-8	= 252 mg/kg (Rat)	> 2000 mg/kg (Rat) = 560 µL/kg (Rabbit)	= 0.1 mg/L (Rat) 4 h

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
STOT - single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.

Numerical measures of toxicity

Not determined

Unknown Acute Toxicity 11.41% of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ammonium hydroxide 1336-21-6		8.2: 96 h Pimephales promelas mg/L LC50		0.66: 48 h water flea mg/L EC50 0.66: 48 h Daphnia pulex mg/L EC50
Glutaral 111-30-8	0.61: 72 h Desmodemus subspicatus mg/L EC50 0.84: 96 h Desmodemus subspicatus mg/L EC50	7.8 - 22: 96 h Lepomis macrochirus mg/L LC50 static 2.6 - 4.8: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 7.8 - 13: 96 h Oncorhynchus mykiss mg/L LC50 static 5.4: 96 h Pimephales promelas mg/L LC50 static	EC50 = 13.3 mg/L 17 h EC50 = 76.0 mg/L 5 min	14: 48 h Daphnia magna mg/L EC50 0.56 - 1.0: 48 h Daphnia magna mg/L EC50 Static

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Glutaral 111-30-8	0.22

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Ammonium hydroxide 1336-21-6	Toxic, Corrosive
Glutaral 111-30-8	Toxic

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No UN2672
 Proper Shipping Name Ammonia solution, (less than 12%)
 Hazard Class 8
 Packing Group III

IATA

UN/ID No UN2672
 Proper Shipping Name Ammonia solution, (less than 12%)
 Hazard Class 8
 Packing Group III

IMDG

UN/ID No UN2672
 Proper Shipping Name Ammonia solution, (less than 12%)
 Hazard Class 8
 Packing Group III
 Marine Pollutant This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

TSCA

Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonium hydroxide 1336-21-6	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ammonium hydroxide	1336-21-6	11	1.0

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium hydroxide 1336-21-6 (11)	1000 lb			X

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ammonium hydroxide 1336-21-6	X	X	X
Glutaral 111-30-8	X	X	X

16. OTHER INFORMATION

NFPA

Health Hazards

Not determined

Flammability

0

Instability

0

Special Hazards

Not determined

HMS

Health Hazards

3

Flammability

0

Physical Hazards

1

Personal Protection

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Revision Note:

3 year update

Disclaimer

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End of Safety Data Sheet