



Safety Data Sheet

1 – PRODUCT IDENTIFICATION

PRODUCT NAME:.....**5019**

PRODUCT NUMBER:5019

OTHER MEANS OF IDENTIFICATION:.....Clear, colorless liquid, amine odor similar to ammonia.

RECOMMENDED USE:.....Cationic product.

RESTRICTIONS ON USE:.....Use only as directed.

COMPANY:..... CHEMTRON CORPORATION

3500 Harry S. Truman Blvd

St. Charles, MO 63301

636-940-5445 (Mon-Fri., 8:00-4:00)

www.chemtroncorporation.com

EMERGENCY PHONE:(800) 424-9300 (CHEMTREC)

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2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:.....Corrosive. Clear, colorless, liquid with an amine (ammonia) odor. Product is corrosive to eyes, skin, and respiratory system. Skin absorption, inhalation, or ingestion may also result in toxic effects.

CLASSIFICATION 29 CFR 1910.1200:Product is hazardous by OSHA criteria.

Corrosive to skinCategory 1

Serious eye damageCategory 1

STOT-SE (single target organ toxicity - single exposure), Category 3 respiratory tract irritation



GHS SIGNAL WORD:**Danger**

GHS HAZARD STATEMENTS:.....H314: Causes severe skin burns and eye damage.

Causes serious eye damage.

H335: May cause respiratory irritation



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GHS PRECAUTIONARY STATEMENTS:.....P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately, call a doctor.
 P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing for 15 min. call a doctor.
 P363: Wash contaminated clothing before reuse.
 P403+233: Store in a well ventilated place. Keep container tightly closed
 P405: Store locked up
 P501: Dispose of contents/container in accordance with local state and federal regulations.

HAZARDS NOT OTHERWISE CLASSIFIED:None known.

NOTE:OSHA - Occupational Safety and Health Administration; ACGIH - American Conference of Governmental Industrial Hygienists; NIOSH - National Institute for Occupational Safety and Health; PEL - Permissible Exposure Limit; TWA - Time Weighted Average; TLV - Threshold Limit Value; REL - Recommended Exposure Limit; STEL - Short Term Exposure Limit; IDLH - Immediately Dangerous to Life or Health.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER
Ammonium Hydroxide	19	1336-21-6

The exact percent by weight of the ingredients in this formulation is proprietary.

4 – FIRST-AID MEASURES

BREATHING (INHALATION):..If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor.

SWALLOWING (INGESTION):..If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately, call a poison control center or doctor.

EYES:If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Immediately, call a doctor.

SKIN (DERMAL):If on skin (or hair): Immediately, take off all contaminated clothing. Rinse skin with water. Use safety shower if available. Immediately, call a doctor.

ACUTE SYMPTOMS:.....Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

DELAYED EFFECTS:Permanent eye damage including blindness could result. may cause respiratory irritation.

IMMEDIATE OR SPECIAL TREATMENT:Provide general supportive measures and treat symptomatically. Chemical burns: flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.



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5 – FIRE-FIGHTING MEASURES

FLASHPOINT:.....No data available.

EXTINGUISHING MEDIA:.....Use media appropriate for surrounding fire. Water fog, foam, dry chemical powder carbon dioxide. Do not use water jet as an extinguisher, as this will spread the fire.

SPECIAL FIRE FIGHTING PROCEDURES:Wear self-contained breathing apparatus and full turn-out gear. If possible, move containers away from fire. Cool fire exposed containers with water spray. If containers rupture or leak, product may evolve oxides of nitrogen and oxides of carbon.

6 – ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:.....Prevent entry into waterways, sewer, basements or confined areas. Large spills need to stop the flow of materials, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small spill wipe up with absorbent material (e.g.cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original container for re-use.

PERSONAL PRECAUTIONS:....Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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.

7 – HANDLING and STORAGE

STORAGE:Store locked up. Store in original tightly closed container. Store away from incompatible materials.

HANDLING:.....Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:No exposure limits noted for ingredients.

PROTECTIVE CLOTHING:Wear chemical splash goggles and protective industrial rubber gloves. When conditions warrant use, add face shield, apron, and/or rubber boots.

ADDITIONAL MEASURES:.....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.

NOTE: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. Eye wash facilities and emergency shower must be available when handling this product.



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9 – PHYSICAL / CHEMICAL PROPERTIES

APPEARANCE:Clear, colorless liquid.
ODOR:amine odor similar to ammonia
BOILING POINT:212° F
VAPOR PRESSURE:.....No data available.
VAPOR DENSITY (AIR=1):No data available
SPECIFIC GRAVITY:0.93
pH:No data available.
SOLUBILITY IN WATER:Completely miscible in water.
FLAMMABILITY:Flammable liquid
EVAPORATION RATE:.....No data available.
MELTING POINT/FREEZING POINT: <32° F

10 – STABILITY and REACTIVITY

REACTIVITY:The product is stable and non reactive under normal conditions of use, storage and transport.
STABILITY:.....Stable under normal conditions.
HAZARDOUS POLYMERIZATION:Hazardous polymerization does not occur.
INCOMPATIBILITY:.....Strong oxidizing agents.
HAZARDOUS REACTIONS:Contact with incompatible materials.
HAZARDOUS DECOMP:No hazardous decomposition products are known.

11 – TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE:Eye or skin contact; inhalation of mist or aerosol
TOXICOLOGICAL CHARACTERISTICS:Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.
DELAYED EFFECTS:
IMMEDIATE EFFECTS:Irritation or burns to eyes, skin, upper respiratory system, or other tissues.
CHRONIC EFFECTS:Not Known.
NUMERICAL MEASURES OF TOXICITY:.....No toxicology available on the formulated product. Toxicology data for product ingredients:
LISTED CARCINOGEN:None of the product ingredients are listed as carcinogens by IARC, NTP, or OSHA.



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12 – ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND DISTRIBUTION: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

PRODUCT	DATA
Ammonium Hydroxide	LC50 Western mosquito fish (<i>Gambusia affinis</i>) 15 mg/L 96hrs LC50 <i>Daphnia Magna</i> 32 mg/L – 48 Hours

PERSISTENCE AND DEGRADABILITY:No data available.

BIOACCUMULATIVE POTENTIAL:No data available.

MOBILITY IN SOIL:No data available.

OTHER ADVERSE EFFECTS: ..No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13 –DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:Collect and reclaim or dispose in a sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with all applicable regulations.

14 – TRANSPORTATION INFORMATION

PROPER SHIPPING NAME:Ammonia Solution

HAZARD CLASS:8,

UN/NA NUMBER:UN2672

PACKAGING GROUP :III



TRANSPORT IN BULK:Product container meets or exceeds DOT requirements. Material is a Packing Group II corrosive base. No extraordinary measures are required for shipment in bulk tanks including totes. See 49 CFR 172.101 & 49 CFR 172.102.

SPECIAL PRECAUTIONS:If needed, see Column 7 entries in the DOT hazardous materials table and associated designations at 49 CFR 172.102 for detailed descriptions of authorized containers, tank material specifications, maximum degree of filling, minimum pressure tests, and other information.



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15 - REGULATIONS

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

EPA SRA Title III Chemical Listings:

TSCA (Toxic Substance Control Act) STATUS:.....All ingredients listed or exempt.

SECTION 311/312:Yes

SECTION 302:.....No chemicals in this material are subject the reporting.

SARA SECTION 313:.....Not listed.

US EPA CERLA:Ammonium Hydroxide

16 – OTHER INFORMATION

NFPA HAZARD RANKING

HEALTH	FIRE	REACTIVITY	SPECIAL
3	0	0	

HMIS HAZARD RANKING

HEALTH	FIRE	REACTIVITY	PPE
3	0	0	

This data is offered in good faith and believed to be accurate, but it is for the users to satisfy themselves of the product suitability for their own purpose. There is no warranty expressed or implied. The recommended hygiene and safe handling procedures are believed to be generally applicable.