



Material Safety Data Sheet

Product Name: VIPER 5062GMA/5067GMA TechGuard Chemicals

Emergency Phone: CHEMTREC – US/CN - 1-800-424-9300

CHEMTREC – Outside US - +1-202-483-7616

Non-Emergency – 913-310-1050

HMIS HAZARD CODES (minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health: 2 Flammability: 0 Reactivity: 0

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: TECHGUARD Additive 2, 5062 & 5067
Product Description: Ethylene glycol (in water solution)
Manufacturer: Clore Automotive, LLC, 8600 NE Underground Dr., Kansas City, MO 64161
24-Hour Emergency Phone: 800-424-9300, +1-202-483-7616 (CHEMTREC) (Non-emergency 913-310-1050)

HMIS HAZARD CODES (minimal=0; slight=1; moderate=2; serious=3; severe=4)

health: 2 Flammability: 0 Reactivity: 0

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Composition</u>	<u>CAS Number</u>	<u>Percent by Wt.</u>
Ethylene Glycol (in water solution)	107-21-1	<5%
Polyquaternary Amine	42751-79-1	<5%

(See section 8 for exposure guidelines.)

3. HAZARDS IDENTIFICATION

Emergency Overview:

1. Pale yellow liquid with slight ammoniacal odor.
2. Irritating to eyes, skin, and respiratory system. Harmful or fatal if swallowed.

Potential Health Effects:

Eye Contact: Irritating to the eyes. Vapors can also cause severe eye irritation.
Skin Contact: Mildly irritating to the skin and slightly toxic on prolonged or repeated contact.
Inhalation: Vapors or aerosols may be irritating to the respiratory system and may be toxic on prolonged or repeated exposure.
Ingestion: Product may be harmful or fatal if swallowed; may produce central nervous system (CNS) depression and kidney damage which may be fatal.
Signs and Symptoms: Irritation as noted above. Early to moderated CNS depression may be evidenced by giddiness, headache, dizziness and nausea; in extreme cases, unconsciousness and death may occur. Kidney damage may be evidenced by changes in urine output, urine appearance or edema (swelling from fluid retention).
Aggravated Medical Conditions: Preexisting skin, eye, and respiratory disorders may be aggravated by exposure to this product. Impaired kidney function from preexisting disorders may be aggravated by exposure to this product.
Other Health Effects: Intentional abuse, misuse or other massive exposure may cause multiple organ damage and/or death.

4. FIRST AID MEASURES

Eye Contact: Immediately flush eye with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.
Skin Contact: Flush skin with water. If irritation occurs, get medical attention.
Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.
Ingestion: Do NOT induce vomiting. If conscious, give victim 1-2 glasses of water or milk. Get medical attention immediately. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flammable Properties: Flash Point: Greater than 212 °F
Flammable Limits: Not Applicable
Extinguishing Media: Water fog, carbon dioxide, "alcohol foam", dry chemical.
Special Fire Fighting Procedures and Precautions: Cool exposed containers with water to prevent pressure buildup. As in any fire wear self-contained breathing apparatus (pressure-demand, MDHS/NIOSH approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures:

1. Asses the situation to determine if you can safely handle the spill.
2. Determine if outside help is needed
3. Wear proper protective equipment (See Section 8).
4. Dike to contain; recover all possible. Place in suitable containers.
5. Contact necessary local, state and federal authorities and dispose of in accordance with local, state and federal regulations

7. HANDLING AND STORAGE

1. Keep container closed when not in use.
2. Wash with soap and water before eating, drinking, smoking, or using toilet facilities.
3. Launder contaminated clothing before reuse.

Other Precautions: Use with adequate ventilation. Do not get in eyes. Avoid skin contact.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: Ethylene Glycol: OSHA-PEL and ACGIH-TLV are 50 PPM-CEILING

Engineering Controls: Use ventilation as required to control vapor concentrations.

Respiratory Protection: If exposure may or does exceed occupational exposure limits, use a NIOSH-approved respirator to prevent overexposure. In accord with 29 CFR 1910.134, use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

Eye Protection: Wear chemical goggles if there is likelihood of contact with eyes.

Skin Protection: Wear chemical-resistant gloves and other clothing as required to minimize contact. Test data from published literature and/or glove and clothing manufacturers indicate the best protection is provided by nitrile, neoprene, pvc or natural rubber gloves.

Other Protective Equipment: Eye wash fountains and safety showers should be available for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid
Odor: Slight amine odor
Boiling Point: 212 °F Min.
Vapor Pressure: As Water
Vapor Density (air=1): As Water
Solubility in Water: Complete
Specific Gravity: 1.01 at 25 °C
Percent Volatile: 97 (water)
Evaporation Rate: As Water
pH: 10.8

10. STABILITY AND REACTIVITY

Stability: Stable
Conditions and Materials to Avoid: Keep away from strong oxidizing agents.
Incompatibility: Strong oxidizing materials such as chlorine, peroxides, nitric acid...
Hazardous Polymerization: Will not occur.
Hazardous Decomposition Products: Carbon monoxide and unidentified organic compounds may be formed during combustion.

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11. TOXICOLOGICAL INFORMATION

Rare case reports of sensitization (allergy) have been published, but allergy to ethylene glycol is not a common phenomenon.

In one study, when ethylene glycol was administered in the diet at daily doses up to 1.0 g/KG to pregnant rats, no maternal toxicity, no embryotoxicity not teratogenicity were observed. In a more recent study, when ethylene glycol was administered by gavage (gavage: Introduction of material into stomach via a tube) at daily doses of 1.25 g/KG and above to pregnant rats, or at 750 mg/KG and above to pregnant mice. There was an increase in the number of malformed fetuses at all dose levels. Except at the lowest dose level in mice, there was also evidence of maternal toxicity at all dose levels.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Product is not a listed hazardous waste.

Any disposal practice must be in compliance with local, state, and federal laws and regulations (contact local or environmental agency for specific rules).

14. TRANSPORT INFORMATION

Department of Transportation Classification: Not hazardous by D.O.T. regulations.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA): The components of this product are listed on the EPA/TSCA inventory of chemical substances.

16. OTHER INFORMATION

The following label hazard ratings are recommended:

<u>HMIS</u>	<u>Code</u>
Health-2	4-Severe
Flammability-0	3-Serious
Reactivity-0	2-Moderate
	1-Slight
	0-Minimal

OTHER PRECAUTIONS:

For industrial use only. Keep out of reach of children.

Blended and packaged by: National-Purity, Inc., 434 Lakeside Ave. N., Minneapolis, MN 55405

The information provided in this MSDS relates only to TECHGUARD Additive 2 and may not be valid if such material is used in combination with any other material or in any process. In addition, the information contained herein is based on data made available to Clore Automotive, LLC by raw material suppliers, who can provide additional information concerning TECHGUARD Additive 2 components.

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