

SECTION 1. IDENTIFICATION

Product Identifier

Product name: Anti-Ox

Product code(s): F4P N00X-X 0216-0516; F4P N00X-X Stock Code: 0250-0554

Synonym(s): Petroleum-based oxide inhibitor.

REACH Registration Number: No data available.

Relevant identified uses of the substance or mixture and uses advised against

General use: Oxide inhibitor for electrical connections and other electrical applications.

Uses advised against: None known.

Details of the supplier and of the safety data sheet

Manufacturer: Everkem Diversified Products, 5180 Indiana Avenue, Winston-Salem, NC 27106 USA +1-800-638-3160

Distributor: F4P, 400 NW Enterprise Drive, Suite 2, Port St. Lucie, FL 34986

Emergency telephone number: CHEMTREC 1-800-424-9300

Poison Control telephone number: 1-800-222-1222

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Product definition: Mixture

Classification in accordance with 29 CFR 1910 (OSHA HCS) and Regulation (EC) No 1272/2008

Aquatic Chronic - Category 1 [410].

Label elements

Hazard Symbol(s)



HS09

Signal Word:

Warning

Hazard Statement(s)

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary

Statements (Prevention) P273 - Avoid release to the environment.

(Response)

P391 - Collect spillage.

(Disposal)

P501 - Dispose of contents and containers in accordance with national and local regulations.



SAFETY DATA SHEET

ANTI-OX OXIDE INHIBITOR COMPOUND

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances Not applicable.

Mixtures

% by Weight	Ingredient	CAS Number	EC Number	Index Number	GHS Classification
60-80	Butene Homopolymer	9003-29-6	500-004-7	-	-
17-22	Zinc, Metallic	7440-66-6	231-175-3	030-001-01-9	H410
0.1-2.5	Zinc Oxide	1314-13-2	215-222-5	030-013-00-7	H410

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4. FIRST AID MEASURES

Description of necessary first aid measures

Inhalation

If product vapor causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention.

Eye contact

Do not rub eyes. Immediately flush eyes with large amounts of water for 20 minutes, occasionally lifting upper and lower lids. Remove contact lenses, if present and easy to do, after first 2 minutes and continue rinsing. Obtain immediate medical attention, preferably from an ophthalmologist.

Skin contact

Remove contaminated clothing. Quickly and gently remove excess product with a dry cloth or paper towel. Flush skin with lukewarm water for 15 minutes. Wash affected area with soap and water. Clean contaminated clothing and shoes before reuse. If irritation persists, seek medical advice.

Ingestion

Rinse mouth with water if the victim is conscious. Remove dentures, if present. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have the victim lean forward to reduce the risk of aspiration of material into the lungs. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Get medical attention immediately.



SAFETY DATA SHEET

ANTI-OX OXIDE INHIBITOR COMPOUND

Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eye contact	Causes eye irritation with redness, swelling, tearing and burning sensation. Particulates may cause mechanical irritation of the cornea.
Skin contact	May cause skin irritation. Heated material may cause thermal burns. Prolonged exposure to unprotected skin may cause dermatitis.
Inhalation	Vapor may cause irritation of the respiratory tract, especially if material is heated.
Chronic	Persons with preexisting skin disorders or respiratory impairment may be more susceptible to the effects of this material. Chronic skin exposure may cause dermatitis. Zinc Oxide has caused mutagenic effects in laboratory animals. Refer to Section 11.2.

Indication of any immediate medical attention and special treatment needed

Advice to Doctor and Hospital Personnel

Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishable media

Suitable methods of extinction Use extinguishing media such as water fog or water spray, dry chemical, carbon dioxide and foam.

Unsuitable methods of extinction Use of water jets or high pressure streams may spread the fire.

Specific hazards arising from the chemical Combustible liquid. If heated above its flash point, this product may release vapors that are heavier than air. Vapors can travel along the ground to a source of ignition and flash back. Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention.

Explosion hazards Heating material may generate vapors than can form an explosive mixture with air, especially in confined spaces.

Advice for firefighters Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. Firefighters must control runoff water to prevent environmental contamination. Fire residues and contaminated extinguishing water must be disposed of in accordance with local regulations.



SAFETY DATA SHEET

ANTI-OX OXIDE INHIBITOR COMPOUND

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Remove all sources of ignition. Ventilate the area. Wear appropriate protective clothing and equipment designated in Section 8. Spilled material creates a slip hazard.

Environmental precautions Avoid dispersal of spilled material and prevent contact with soil and entry into drains, sewers or waterways.

Methods and materials for containment and cleaning up Cover drains and contain spill. Cover spill with non-combustible absorbent. Wipe or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled material, even in small quantities, may present a slip hazard. Final cleaning may require use of steam or washing with solvents or detergents. Place saturated absorbent or cleaning materials into an approved container for proper disposal. Observe possible material restrictions (refer to Sections 7.2 and 10.5). Dispose via a licensed waste disposal contractor.

Releases should be reported, if required, to appropriate agencies. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800) 424-8802 (USA) or (202) 426-2675 (USA).

Reference to other sections For indications about waste treatment, see Section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Observe label precautions. Wear all appropriate protective equipment specified in Section 8. Do not get in eyes or on skin or clothing. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear appropriate respiratory protection.

Advice on protection against fire and explosion Heating material may generate vapors that can form an explosive mixture with air, especially in confined spaces.

Conditions for safe storage, including any incompatibilities Keep containers tightly closed in cool, dry, well-ventilated storage areas. Transfer only to approved containers having correct labeling. Protect containers against physical damage. Keep containers tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not reuse empty containers as they may retain product residues. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally.
Keep out of reach of children.

Specific end uses Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.



SAFETY DATA SHEET

ANTI-OX OXIDE INHIBITOR COMPOUND

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits (OSHA United States)

CAS #	Ingredient	OSHA PEL	ACGIH TLV	NIOSH
1744-66-6	Zinc (dust)	5 mg/m ³ (fume)	5 mg/m ³ (fume)	-
1314-13-2	Zinc Oxide	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)	2 mg/m ³ (respirable fraction)	5 mg/m ³ (total dust) 5 mg/m ³ (fume)

Exposure controls

Engineering Measures Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to section 7.1.

Individual protection measures Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking, smoking or using the lavatory.

Eye/face protection Wear protective goggles or safety glasses with unperforated side shields during use. Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166. It is recommended that contact lenses be removed before using this sealant. Do not handle lenses until all sealant has been cleaned from the fingertips, nails and cuticles. Residual sealant may remain on fingers for several days and transfer to lenses, causing severe eye irritation.

Hand Protection Wear Nitrile rubber or Neoprene gloves or those recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

Other protective equipment

Long sleeve shirts and trousers without cuffs; boots if the situation calls for them.

Respiratory Protection

None needed under ambient conditions with adequate local exhaust. Always use an approved respirator when vapors are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-faced supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

NOTE: This material may contain materials classified as nuisance particulates (listed as "Dust") which may be present at hazardous levels only during sanding, abrading or removal of dried films. If no specific dusts are listed in Section 8, the applicable limits for unknown nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

Environmental exposure controls

Do not empty into drains.
PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select, maintain, clean fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.



Safety Glasses



Gloves

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Opaque, gloss gray paste-like fluid
Odor	Mild
Odor threshold	No data available
Molecular Weight	Not applicable
Chemical Formula	Not applicable
pH	No data available
Melting/Freezing Point	No data available
Initial Boiling Point	No data available
Evaporation Rate	Slower than ether
Flash Point	>232 °C (>450 °F)
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Lower and upper explosive (flammable) limits (LEL)	No data available
Vapor pressure	No data available
Vapor density	1.05 - 1.15
Vapor pressure	>1 (Air = 1)

Solubility in Water	No data available
Flammability (solid, gas)	log Pow = >3
Partition coefficient: noctanol/water	Not Determined
Viscosity	No data available
Molecular weight	No data available
Oxidizing Properties	Not applicable
Explosive Properties	Not applicable
Volatiles by Weight @ 21 °F	>75%
VOC Content by Volume	0 g/l
Other Data	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No special reactivity has been reported.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	High temperatures, incompatible materials.
Incompatible materials	Acids, oxidizing agents, alkalis, water.
Hazardous decomposition products	Thermal decomposition products include oxides of carbon, zinc fumes, oxides of zinc.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Oral toxicity	Expected to have low acute oral toxicity.
Acute inhalation toxicity	Expected to have low acute inhalation toxicity.
Acute dermal toxicity	Expected to have low acute dermal toxicity.
Skin irritation	May cause skin irritation.
Eye irritation	Causes eye irritation.
Sensitization	No data available.
Genotoxicity in vitro	No data available.
Mutagenicity	No data available.
Specific organ toxicity - single exposure	No data available.
Specific organ toxicity - repeated exposure	No data available.
Aspiration hazard	No data available.



SAFETY DATA SHEET

ANTI-OX OXIDE INHIBITOR COMPOUND

Further Information

Zinc Oxide is mutagenic for mammalian somatic cells and for bacteria and yeast. It may cause adverse reproductive effects in humans based on animal data. No human data is available at this time. May affect genetic material (mutagenic).

None of the components of this product are listed as carcinogens by IARC, ACGIH, OSHA or NTP. No data is available regarding the mutagenicity or teratogenicity of this product nor is there available data that indicates that it causes adverse developmental or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity Very toxic to aquatic life with long lasting effects in the aquatic environment.

Persistence and degradability Organic material in this product does not biodegrade at a significant rate.

Bioaccumulation potential Butene Homopolymers have the potential to bioaccumulate.

Mobility in soil No data available

Results of PBT and vPvB assessment No data available

Other adverse effects

Additional ecological information

Do not allow material to run into surface waters, wastewater or soil.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.



SAFETY DATA SHEET

ANTI-OX OXIDE INHIBITOR COMPOUND

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Treatments methods

The generation of waste should be avoided or minimized whenever possible. Although this product is classified as non-hazardous under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261 this material and its container should be disposed of in a safe way as empty containers may contain product residue. Leave chemicals in original containers. No mixing with other waste. Handle unclean containers like the product itself. Incinerate in an approved facility. Do not incinerate closed container. Dispose of in accordance with the Directive 2008/98/EC as well as other national, federal, state/provincial and local laws and regulations.

RCRA P-Series: No listing

RCRA U-Series: No listing

SECTION 14. TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

NOT REGULATED FOR TRANSPORT

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for substance or mixture

U.S. Federal regulations

OSHA Hazard Communication Standard

This material is classified as hazardous in accordance with OSHA 29 CFR 1910-1200.

Toxic Substance Control Act (TSCA) Inventory

All components of this product are listed or exempt from listing on the TSCA Inventory. This product is not subject to TSCA 12(b) Export Notification.



SAFETY DATA SHEET

ANTI-OX OXIDE INHIBITOR COMPOUND

Drug Enforcement Administration (DEA) List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.4(f)(2) and Chemical Code Number None Listed.

Drug Enforcement Administration (DEA) Lists 1 & 2, Exempt Chemical Mixtures (21 CFR 1310.12(c)) and Code Number None Listed.

Department of Homeland Security (DHS) Chemical Facility Anti-Terrorism Standards (CFATS) Chemicals None Listed.

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories Acute Health Hazard, Chronic Health Hazard.

SARA 313 Information Zinc and Zinc Compounds (N982) are subject to the reporting requirements established by Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance None of the components of the product are subject to the reporting requirements of these these sections of Title III of SARA.



SAFETY DATA SHEET

ANTI-OX OXIDE INHIBITOR COMPOUND

SARA 302/304 Emergency Planning & Notification	None of the components of the product are subject to the reporting requirements of these sections of Title III of SARA.
Comprehensive Response Compensation and Liability Act (CERCLA)	This product contains the following CERCLA reportable substances: Zinc (dust) [CAS #7440-66-6], RQ - 454 kg (1,000 lbs) Zinc Oxide (listed under Zinc Compounds) - There is no RQ assigned to this broad class, although the class is a CERCLA hazardous substances. Refer to 50 Federal Register 13456 (April 4, 1985).
Clean Air Act (CAA)	This product does not contain any substances listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b). This product does not contain any Class 1 Ozone depletors. This product does not contain any Class 2 Ozone depletors.
Clean Water Act (CWA)	Zinc [CAS #7440-66-6] is listed as a Hazardous Substance under the CWA. Zinc [CAS #7440-66-6] is listed as a Priority Pollutant under the CWA. Zinc and its compounds are listed as Toxic Pollutants under the CWA. Butene Homopolymers are classified as oils under Section 311 of the CWA and the Oil Pollution Act (OPA) of 1990.
U.S. State Regulations	
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986	This product contains chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.
Other U.S. State Inventories	Zinc [CAS #7440-66-6] is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: CA, DE, ID, MA, MI, MN, NJ, PA, RI. Zinc Oxide [CAS #1314 13-2] is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: CA, MA, MN, NJ, PA, RI, WA.
Canada	
WHMIS Hazard Symbol and Classification	Uncontrolled product according to WHMIS classification criteria.
Canadian National Pollutant Release Inventory (NPRI)	Zinc and its compounds are listed on the NPRI.
European Economic Community	
WGK, Germany (Water danger/protection)	2 (hazard to waters)
Chemical safety assessment	For this product a chemical safety assessment was not carried out.

SECTION 16. OTHER INFORMATION

Hazardous Material Information System HMIS

Health	1
Flammability	1
Physical Hazard	0
Personal Protection	B

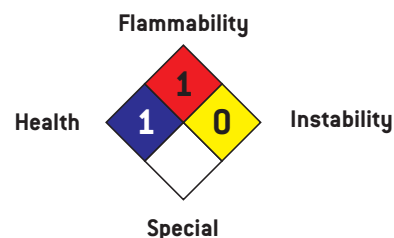
HMIS Hazard Rating Legend

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious
4 = Severe * = Chronic Health Hazard

NFPA Hazard Rating Legend

0 = Insignificant 1 = Slight 2 = Moderate
3 = High 4 = Extreme

National Fire Protection Association (NFPA)



Abbreviation Key

<p>ACGIH American Conference of Governmental Industrial Hygienists</p> <p>ADR Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)</p> <p>CAS Chemical Abstract Services</p> <p>CFR Code of Federal Regulations</p> <p>DOT Department of Transportation</p> <p>EMS Guide Emergency Response Procedures for Ships Carrying Dangerous Goods</p> <p>EPA Environmental Protection Agency</p> <p>ERG Emergency Response Guide Book</p> <p>FDA Food and Drug Administration</p> <p>GHS Globally Harmonized System of Classification and Labeling of Chemicals (GHS)</p> <p>HCS Hazard Communication Standard</p> <p>IARC International Agency for Research on Cancer</p> <p>IATA International Air Transport Association half maximal</p> <p>ICAO International Civil Aviation Organization</p> <p>IDLH Immediately Dangerous to Life and Health</p> <p>IMDG International Maritime Dangerous Goods</p>	<p>IMO International Maritime Organization</p> <p>mppcf Millions of Particles Per Cubic Foot</p> <p>NA North America</p> <p>NAERG North American Emergency Response Guide Book</p> <p>NIOSH National Institute for Occupational Safety</p> <p>NTP National Toxicology Program</p> <p>OSHA Occupational Safety and Health Administration</p> <p>PBT Persistent, Bioaccumulating and Toxic</p> <p>PEL Permissible exposure limit</p> <p>PMCC Pensky-Martens Closed Cup</p> <p>ppm Parts Per Million</p> <p>RCRA Resource Conservation and Recovery Act</p> <p>RID Dangerous Goods by Rail</p> <p>RQ Reportable Quantity</p> <p>TCC/Tag Tagliabue Closed Cup</p> <p>TLV Threshold Limit Value</p> <p>TSCA Toxic Substance Control Act</p> <p>TWA Time-weighted Average</p> <p>UN United Nations</p> <p>VOC Volatile Organic Compounds</p> <p>vPvB Very Persistent and Very Bioaccumulating</p> <p>WHMIS Workplace Hazardous Materials Information System</p>
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