



# SAFETY DATA SHEET

99901, 99904, 99908

Oxide Inhibitor Compound

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

Product Name: **MORRIS Antioxidant**

Product Codes(s): **99901, 99904, 99908**

Synonyms: Petroleum-based oxide inhibitor

REACH Registration Number: No data available

### 1.2 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

### 1.3 Details of the supplier and of the safety data sheet

Manufacturer/Distributor

**Morris Products Inc.**

**53 Carey Rd.**

**Queensbury, NY 12804**

### 1.4 Emergency telephone number: +1-800-638-3160

## SECTION 2 - HAZARDS IDENTIFICATION

### 2.1 Classification of substance or mixture

Product definition: Mixture

Classification (Regulation (EC) No 1272/2008)

Aquatic Chronic - Category 1 [410]

### 2.2 Label Elements

Labeling (Regulation (EC) No 1272/2008)

Hazard Symbol(s):



GHS09

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 in accordance with national and local regulations.

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical characterization (preparation)

% by Weight	Ingredient	CAS Number	EC Number	Index Number	EC Classification
60 - 80	Butene Homopolymer	9003-29-6	500-004-7	-----	-----
17 - 22	Zinc, Metallic	7440-66-6	231-175-3	-----	N, R50/53
0.1 - 2.5	Zinc Oxide	1314-13-2	215-222-5	-----	N, R50/53

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

## SECTION 4 - FIRST AID MEASURES

### 4.1 Description of 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.

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

#### **4.2 Most important symptoms and effects, both acute and delayed**

##### **Potential health symptoms and effects**

**Eyes:** Causes eye irritation. Symptoms may include redness, swelling, tearing and burning sensation. Particulates may cause mechanical irritation of the cornea.

**Skin:** May cause skin irritation. Heated material may cause thermal burns. Prolonged exposure to product may cause dermatitis.

**Inhalation:** Vapor may cause irritation of the respiratory tract, especially if material is heated.

**Chronic:** Persons with pre-existing 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.

#### **4.3 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**

### **5.1 Extinguishable media**

**Suitable methods of extinction:** Use 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.

### **5.2 Special hazards arising from the substance or mixture**

Combustible liquid. If heated above its flash point, 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:** Material does not present an explosion hazard.

### **5.3 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.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

### **6.1 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.

### **6.2 Environmental precautions**

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

### **6.3 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).

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).

### **6.4 Reference to other sections**

For indications about waste treatment, see Section 13.

## **SECTION 7 - HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

Observe label precautions. Wear all appropriate protective equipment specified in Section 8. Keep containers closed when not in use.

##### **Advice on protection against fire and explosion**

Product does not present a fire or explosion hazard.

### **7.2 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.

### **7.3 Specific end uses**

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

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational Exposure Limits

CAS Number	Ingredient	OSHA PEL	ACGIH TLV	NIOSH
1744-66-6	Zinc (dust)	5 mg/m3 (fume)	5 mg/m3 (fume)	-----
1314-13-2	Zinc Oxide	15 mg/m3 (total dust) 5 mg/m3 (respirable fraction)	2 mg/m3 (respirable fraction)	5 mg/m3 (total dust) 5 mg/m3 (fume)

### 8.2 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 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.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Opaque, gloss gray paste-like fluid
<b>Odor</b>	Mild
<b>Odor Threshold</b>	No data available
<b>Molecular Weight</b>	Not applicable
<b>Chemical Formula</b>	Not applicable
<b>pH</b>	No data available
<b>Freezing/Melting Point, Range</b>	No data available
<b>Initial Boiling Point</b>	No data available
<b>Evaporation Rate</b>	Slower than ether
<b>Flammability (solid, gas)</b>	Not applicable
<b>Flash Point</b>	>232 °C (>450 °F)
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Lower Explosive Limit (LEL)</b>	No data available
<b>Upper Explosive Limit (UEL)</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	>1 (Air = 1)
<b>Specific Gravity</b>	1.05 - 1.15
<b>Viscosity</b>	No data available
<b>Solubility in Water</b>	No data available
<b>Partition Coefficient: n-octanol/water</b>	log Pow = >3
<b>Volatiles by Volume @ 70 °F</b>	>75%

### 9.2 Other data

No data available

## SECTION 10 - STABILITY AND REACTIVITY

### 10.1 Reactivity

No special reactivity has been reported.

Hazardous polymerization does not occur.

## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

None known

## 10.4 Conditions to avoid

High temperatures, incompatible materials

## 10.5 Incompatible materials

Acids, oxidizing agents, alkalis, water

## 10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon, zinc fumes, oxides of zinc.

# SECTION 11 - TOXICOLOGICAL INFORMATION

## 11.1 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

Causes 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

## 11.2 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 in humans.

Handle in accordance with good industrial hygiene and safety practice.

# SECTION 12 - ECOLOGICAL INFORMATION

## 12.1 Toxicity

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

## 12.2 Persistence and degradability

Organic material in this product is unlikely to biodegrade at a significant rate.

## 12.3 Bioaccumulation potential

Product is expected to bioaccumulate based on the partition coefficient ( $\log P_{ow} = >3$ ).

## 12.4 Mobility in soil

This product has not been tested for mobility in soil.

## 12.5 Results of PBT and vPvB assessment

No data available

## 12.6 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.

# SECTION 13 - DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment 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.

**Hazardous waste:** The classification of this product may meet the criteria for a hazardous waste.

## 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

### 15.1 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.

**TSCA Status:** All components of this product are listed or are exempt from listing on the Toxic Substance Control Act (TSCA) Inventory.

#### **Superfund Amendments and Reauthorization Act (SARA)**

**SARA Section 311/312 Hazard Categories:** Acute 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**

No components of the product are subject to the reporting requirements of these sections of Title III of SARA.

#### **SARA 302/304 Emergency Planning & Notification:**

No 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 depleters.

This product does not contain any Class 2 Ozone depleters.

#### **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 an oil 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.

Zinc Oxide (CAS #131413-2) 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, WA.

#### Canada

**WHMIS Hazard Symbol and Classification** Uncontrolled product according to WHMIS classification criteria.

**Canadian Controlled Products Regulations (CPR):** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.

**Canadian Ingredient Disclosure List (IDL):** Zinc Oxide (CAS #1314-13-2) is listed on the IDL.

**Canadian National Pollutant Release Inventory (NPRI):** Zinc and its compounds are listed on the NPRI.

#### European Economic Community

**Labeling (67/548/EEC or 1999/45/EC):**



N - Dangerous for the environment

**Risk Phrase(s):** R50/53 - Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

**Safety Phrases:** S2 - Keep out of reach of children.

S60 - This material and its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment. Refer to special instructions or safety data sheet.

**WGK, Germany (Water danger/protection):** 2

## 15.2 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

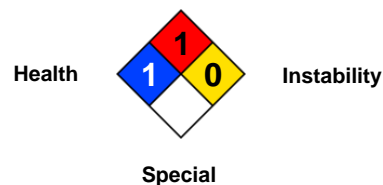


#### HMIS & NFPA Hazard Rating Legend

\* = Chronic Health Hazard      2 = MODERATE  
0 = INSIGNIFICANT              3 = HIGH  
1 = SLIGHT                        4 = EXTREME

#### National Fire Protection Association (NFPA)

##### Flammability



#### Full Text of Risk (R) – Phrases Referenced in Section 3.

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