

## Section 1: Product and Company Identification:

### 1.1 Product Identifier

Product Form:	Mixture
Identification of Substance:	Magnesium oxide dispersed in mineral spirits
Product Name:	NYACOL <sup>®</sup> MagMin
Synonym:	Magnesium Oxide
CAS Number:	1309-48-4
Index Number:	Not available.
EINECS Number:	215-171-9
REACH Registration Number:	Not Registered by NNT
Formula:	MgO

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

Recommended Use:	Catalysts, ceramics, and PET additive.
Restrictions on Use:	For industrial use only, not for food, drug or home use.

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

Company Identification:	Nyacol Nano Technologies, Incorporated Megunko Road, P.O. Box 349, Ashland, MA 01721 U.S.A. +1 508-881-2220
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Email Contact: [info@nyacol.com](mailto:info@nyacol.com)

Internet: [www.nyacol.com](http://www.nyacol.com)

### 1.4 Emergency telephone number

In Case of Emergency:	USA/Canada CHEMTREC: +1 (703) 527-3887 International CHEMTREC: +1 (703) 741-5970 24 Hours/Day: 7 Days/Week
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## Section 2: Hazard(s) Identification

### 2.1 Classification of the substance or mixture

#### GHS-US Classification

Asp. Tox. 1; H304 May be fatal if swallowed and enters airways. H227 Combustible Liquid.

#### Classification according to Regulation (EC) No. 1272/2008 (CLP)

Asp. Tox. 1; H304 May be fatal if swallowed and enters airways. H227 Combustible Liquid.

### 2.2 GHS Label Elements



Signal Word: Danger

Hazard determining components of labelling:

Hazard Statement(s):

Petroleum Distillate, CAS # 64742-48-9  
H304 May be fatal if swallowed and enters airways.  
H227 Combustible liquid.

Precautionary Statement(s):

P210 Keep away from heat.  
P280 Wear protective gloves/protective clothing/eye protection/ face protection.  
P301+P310 IF SWALLOWED: immediately call a Poison Center or doctor/physician.  
P331 Do NOT induce vomiting.  
P370+P378 In case of fire: Use carbon dioxide, foam, dry chemical and water fog.  
P391 Collect spillage.  
P403+P235 Store in a well ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with all federal, state, and local environmental regulations.

### 2.3 Other Hazards

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### 2.4 Unknown acute toxicity (GHS US)

No data available.

### Section 3: Composition / Information on Ingredients

#### 3.1 Chemical characterization: Mixtures

Description: Mixture consisting of the following components.

Component Name:	Product Identifier	GHS Classification	Percent By Weight
Naphtha (Petroleum), Hydrotreated heavy: REACH: 05-2117294564-33-0000	CAS: 64742-48-9 EINECS: 265-150-3 Index: 649-327-00-6	Asp. Tox. Category 1 H304 Flammable Liquids Category 4 H227	50-65
Magnesium Oxide: REACH: Not registered by NNT.	CAS: 1309-48-4 RTECS: OM3850000	Not classified.	30-40
Copolymer REACH: Not registered	Trade secret, not a hazardous substance	Not classified.	5-10

Impurities: Present at a level below that to be taken into account for classification.

Stabilizing Additives: None

The supplier currently has no knowledge on additional ingredients that are classified and that contribute to the classification of this substance.

See Section 16 for a list of hazards if identified above.

### Section 4: First-Aid Measures

#### 4.1 Description of first aid measures

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of the eye and lids with water. Get medical attention.
Skin Contact:	Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.
Inhalation:	Remove person from exposure. Seek immediate medical care if respiratory irritation, dizziness, nausea or unconsciousness occurs. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult medical professional.
Ingestion:	Seek immediate medical care. Do not induce vomiting. Never give anything by mouth to an unconscious person.
First Aid Facilities:	Eye wash station.
Advice to Physicians:	Petroleum distillate: If aspiration into the lungs, may cause chemical pneumonitis.

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

Vapor/aerosol concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headache, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects including death. No ingredients are listed by NTP, IARC, or OSHA as a carcinogen.

#### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

### Section 5: Fire-Fighting Measures

### 5.1 Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide, foam, dry chemical and water fog.  
Unsuitable extinguishing media: No further relevant information available.

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

Flammability of the product: Material is combustible. Containers can build pressure if exposed to heat or fire.

Special Hazard Arising from the Chemical: Vapors may settle in low areas or travel along ground to ignition sources. Liquid will float and may re-ignite on surface waters.

Fire Hazard: No further relevant information available.

Explosion Hazard: Product can accumulate static charge which may cause a fire or explosion.

Reactivity: No further relevant information available.

### 5.3 Advice for firefighters

Special Protective Equipment for Fire-fighters: Wear standard full firefighter turn-out gear (full bunker gear) and respiratory protection (SCBA).

## Section 6: Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Eye protection and impervious gloves. An approved air-purifying respirator should be worn if mist is present.

#### 6.1.1 For non-emergency personnel

Wear protective equipment. Keep unprotected persons away.

### 6.2 Environmental precautions

Prevent entry into sewers/surface and ground water.

### 6.3 Methods and material for containment and cleaning up

Eliminate all ignition sources. Absorb and/or contain spill with inert materials such as sand, vermiculite. Not an RCRA hazardous waste. Ventilate area. Avoid breathing vapor or mist. Wear appropriate personal protective equipment, including appropriate respiratory protection.

### 6.4 Reference to other sections

For more information on exposure controls and personal protection or disposal considerations, check section 8 and 13 of this SDS.

## Section 7: Handling and Storage

### 7.1 Precautions for safe handling

Keep away from heat and flame and any other ignition source. Avoid contact with skin. Avoid generating mist or dust during use. Protect against electrostatic charges. Empty container may retain residue of liquid and vapors and can be dangerous. Do not cut, drill, grind or weld on or near container. Use only in well ventilated area.

#### 7.1.1 Protective measures

Use only in well ventilated areas. As a precautionary measure, the wearing of standard work gear is suggested. Keep ignition sources away. Do not smoke. Protect from heat. Protect against electrostatic charges.

#### 7.1.2 Advice on general occupational hygiene

Avoid inhalation or ingestion. General occupational hygiene measures are required to ensure a safe handling of the substance. These measures involve good personal and housekeeping practices (i.e. regular cleaning with suitable cleaning devices), no eating, drinking and smoking at the workplace and wearing standard working clothes and shoes unless otherwise stated. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Shower and change clothes at end of work shift. Do not wear contaminated clothing at home.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool dry area. Do not freeze. Water contamination should be avoided. Provide sufficient ventilation in storage and workrooms.

**7.3 Specific end use(s)**

No additional information available. Refer to Section 1.2 of this SDS.

**Section 8: Exposure Controls / Personal Protection**

**8.1 Control Parameters**

Magnesium Oxide, CAS 1309-48-4

USA OSHA	OSHA PEL Ceiling (mg/m <sup>3</sup> ) (Fume total particulate):	15 mg/m <sup>3</sup> TWA
Petroleum Distillate, CAS 64742-48-9		
USA OSHA	OSHA PEL Ceiling (mg/M <sup>3</sup> )	1200 mg/m <sup>3</sup> TWA

**8.2 Exposure Controls**

Engineering Controls:	Exhaust ventilation to keep airborne concentrations below exposure limits.
Hygiene Measures:	Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.
Respiratory:	Airborne concentrations should be kept to lowest levels possible. When respiratory protection is required or concentrations are unknown, use an approved air-purifying respirator with organic vapor cartridge.
Hands:	Wear impervious gloves such as neoprene.
Eyes:	Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.
Skin:	Wear clean body-covering clothing; impervious gloves such as neoprene. Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.
Environmental Exposure Controls:	Adverse effects of this material on the environment have not been evaluated. Proper disposal techniques to isolate and recover material should be implemented.

**Section 9: Physical and Chemical Properties**

**9.1 Information on basic physical and chemical properties**

Appearance (Physical State, Color):	Beige-colored liquid
Upper/lower flammability or explosive limits:	Lel =0.6; Uel =7
Volatile by Volume:	Not determined.
Odor:	Mineral spirits odor.
Vapor Pressure:	1 mm Hg at 100° F
Odor Threshold:	Not determined.
Vapor Density:	>5
pH:	Not applicable.
Melting point/freezing point:	Not determined.
Solubility in Water:	Negligible.
Initial boiling point and boiling range:	190° - 200°C
Flashpoint:	143°F (62°C) closed cup.
Evaporation Rate:	<0.1 (Butyl Acetate = 1)
Partition Coefficient:	Not determined.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.

Viscosity:	Not determined.
Specific Gravity:	1.1
Freezing Point:	Not determined.
Explosion Limits:	Not determined.
Oxidizing Properties:	Not determined.

#### 9.2 Other information

No further relevant information available.

### Section 10: Stability and Reactivity

#### 10.1 Reactivity

Not determined.

#### 10.2 Chemical Stability

Stable under normal ambient and anticipated storage and handling conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4 Conditions to avoid

No recommendation.

#### 10.5 Incompatible materials

Strong oxidants; strong acids.

#### 10.6 Hazardous decomposition products

Burning may produce irritating or toxic fumes, carbon monoxide, carbon dioxide.

### Section 11: Toxicological Information

#### 11.1 Information on toxicological effects

Acute toxicity:

LD50, Rat, Oral Values for classification:

Magnesium Oxide, 1309-48-4 3990 mg/kg  
Petroleum Distillate, 64742-48-9 >5000 mg/kg

Skin corrosion/irritation:

Irritant. Avoid contact with skin.

Eye damage / eye irritation

Irritant. Avoid contact with eyes.

Inhalation:

Not determined. Use breathing protection when aerosol or mist is formed.

Sensitization:

No sensitizing effects known.

Chronic Effects:

No further relevant information available.

Carcinogenicity

No ingredients listed by NTP, IARC, or OSHA as carcinogen.

### Section 12: Ecological Information

#### 12.1 Aquatic Toxicity

No further relevant information available.

#### 12.2 Persistence and degradability

No further relevant information available.

#### 12.3 Bioaccumulative potential

No further relevant information available.

#### 12.4 Mobility in soil

No further relevant information available.

#### 12.5 Results of PBT and vPvB Assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### 12.6 Endocrine disrupting properties

No further relevant information available.

#### 12.7 Other adverse effects

No further relevant information available.

### Section 13: Disposal Considerations

This information presented only applies to the materials as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Disposal Considerations: Dispose in accordance with all federal, state and local environmental regulations.

United States: The product is not a RCRA hazardous waste.

### Section 14: Transport Information

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea, IATA for transport by air.

#### Sections 14.1 – 14.4

##### Regulations

	<u>Shipping Name</u>	<u>UN Number</u>	<u>Hazard Class</u>	<u>Packing Group</u>
U.S. DOT (Greater than 119 gallon container):	Petroleum Distillates, N.O.S.	UN1268	Combustible Liquid	III
U.S. DOT (119 gallon container or less):	Not regulated.	Not regulated.	Not regulated.	Not regulated.
ICAO/IATA:	Not regulated.	Not regulated.	Not regulated.	Not regulated.
IMO/IMDG:	Not regulated.	Not regulated.	Not regulated.	Not regulated.
ADR:	Not regulated.	Not regulated.	Not regulated.	Not regulated.

#### 14.5 Environmental Hazards

No further relevant information available.

#### 14.6 Special precautions for users:

No further relevant information available.

#### 14.7 Transport bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

### Section 15: Regulatory Information

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

##### Worldwide Chemical Inventories

EINECS (EU):	All ingredients listed
TSCA (USA):	All ingredients listed
DSL (Canada):	All ingredients listed
AICS (Australia):	All ingredients listed
ENCS (Japan):	All ingredients listed
ECL (Korea):	All ingredients listed
PICCS (Philippines):	All ingredients listed
IECSC (China):	All ingredients listed
State Right-to-Know Laws:	Section 3 of this SDS lists all components of the product.
SARA Section 311/312:	Aspiration hazard.
SARA 313, 304 and CERCLA 102 (A):	No ingredients listed.

#### 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

#### 15.3 International regulations

Controlled Products Regulations:

This SDS contains all the information items specified in Schedule 1, Column 3 of the Controlled Products Regulations in a 16-heading format.

### Section 16: Other Information

Full text of H statements referred to under sections 2 and 3:

H304 May be fatal if swallowed and enters airways.

H227 Combustible liquid.

National Fire Protection Association (U.S.A.) 704 Hazard  
HMIS<sup>®</sup> Hazard Rating:

Health-1, Flammability-2, Reactivity-0, Special-None  
Health-1, Flammability-2, Reactivity-0, Protective  
Equipment - B; safety glasses, gloves.

Recommended Use:

The product is recommended for use in electronics. Other uses have not been investigated and may have other hazards. For industrial use only, not for food, drug or home use.

Work Alert:

Workers using the product should read and understand this SDS and be trained in the proper use of this material.

Other Special Considerations:  
SDS Prepared By:

None known.  
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July 9, 2024  
September 2, 2016

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Supersedes:

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