

SAFETY DATA SHEET ALL UNS SERIES PRODUCTS



SECTION 1: IDENTIFICATION

Product Name: Universal Neutralizing Sorbent (UNS)

Product Code(s): All UNS series stock numbers

SDS Date: May 18, 2018

General Information:

WYK Sorbents, LLC • 11721 Lackland Road • St. Louis, MO 63146
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SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: OSHA Regulatory Status: White to tan colored powder. Not a fire or spill hazard. Very low toxicity. When exposed to water the material can react and generate some heat. Dust is classified as a "nuisance particulate not otherwise regulated".

Potential Health Effects: Not toxic in normal industrial use. Dust is classified as a "nuisance particulate not otherwise regulated" as specified by ACGIH and OSHA. The excessive, long-term inhalation of mineral dusts may contribute to the development of industrial bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease.

GHS Classification: Not Classified

GHS Labeling Symbol:



Signal Word: N/A

Hazard Statements:

Precautionary Statements:

Prevention: Particulate may cause eye irritation Low toxicity by skin contact

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %	Trade Secret
Magnesium Sulfate Monohydrate	CAS# 7487-88-9	30%-35%	
Magnesium Oxide	CAS# 1309-48-4	65%-70%	

SECTION 4: FIRST AID MEASURES

Emergency first aid procedures by route of exposure:

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician if necessary.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water and consult a physician if necessary.

Skin: Wash off with soap and plenty of water.

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if necessary.

SECTION 5: FIRE FIGHTING MEASURES

Material is non flammable

Flash Point: Not Available

Auto-ignition Temperature: Not Available

Flammable Limits: Not Available

Suitable Extinguishing Media: Any available medium, non-flammable as supplied.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus for fire-fighting if necessary.

Products of Combustion: Hazardous decomposition products formed under fire conditions –None

HAZARD	HMIS	NFPA
Toxicity	0	1
Fire	0	0
Reactivity	0	0

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: Ensure adequate ventilation, especially in confined areas.

Environmental Precautions:

Method for Containment: Prevent further leakage or spillage if safe to do so.

Methods for Clean-up: Carefully clean up and place material into a suitable container, being careful to avoid creating excessive dust from dried product. If conditions warrant, clean up personnel should wear approved respiratory protection, gloves and goggles to prevent irritation from contact and/or inhalation.

SECTION 7: HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice.

Storage: Store in dry, protected storage. Product is stable under normal conditions of storage. Minimize dust generation during material handling and transfer. Compatible materials: Magnesium Oxide component is soluble in aqueous acids generating heat and steam; violent reaction or ignition with interhalogens (e.g., bromine pentafluoride; chlorine trifluoride). Incandescent reaction with phosphorus pentachloride.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control Parameters: Exposure Guidelines: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH-TLV	OSHA PEL	NIOSH IDLH
Magnesium Oxide 1309-48-4	TWA: 10 mg/m ³ inhalable fraction	TWA: 15 mg/m ³ fume, total particulate (vacated) TWA: 10 mg/m ³ fume and total particulate	IDLH: 750 mg/m ³ fume

Engineering Controls: Provide sufficient ventilation, in both volume and air flow patterns to control mist/dust concentrations below allowable exposure limits.

Personal Protective Equipment (PPE)

Eye/Face Protection: The use of eye protection is recommended

Skin and Body Protection: The use of eye protection, gloves and long sleeve clothing is recommended

Respiratory Protection: Provide workers with NIOSH approved respirators in accordance with requirements of 29 CFR 1910. 134 for level of exposure incurred.

General Hygiene Considerations: Avoid contact with skin, eyes or clothing. After handling this product, wash hands before eating or drinking.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance, State	Granular
Color	White, tan
Odor	Odorless
pH (as is) 11.4	10-11
Vapor Density	Not Available
Boiling Range	Not Available
Vapor Pressure	Not Available
Melting Point	2100°C
Freezing Point	No Information Available
Flash Point	No Information Available
Flammability Properties	No Information Available
Solubility (in water)	31-35
Specific Gravity	0.64-1.1
Evaporation Rate	Not Available
Bulk Density	40 - 65 Lb/ft ³
Auto-ignition temperature	No Information Available
Decomposition temperature	Not Available

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions

Condition to Avoid:

Incompatible Materials: Magnesium Oxide component is soluble in aqueous acids generating heat and steam; violent reaction or ignition with interhalogens (e.g., bromine pentafluoride; chlorine trifluoride). Incandescent reaction with phosphorus pentachloride.

Hazardous Decomposition: None

Hazardous Reactions: This product will not undergo polymerization

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Product Information: Magnesium Oxide CAS# 1309-48-4 Product does not present an acute toxicity hazard based on known or supplied information. Magnesium Sulfate monohydrate CAS# 14168-73-1 Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation: Inhalation of fume (not MgO dust particulate) produced upon decomposition of magnesium compounds can produce a febrile reaction and leukocytosis in humans.

Eye Contact: Irritating to eyes

Skin Contact: Low toxicity by skin contact

Ingestion: Ingestion is an unlikely route of exposure. If ingested in sufficient quantity may cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting and diarrhea.

Information on toxicological effects:

Symptoms: No information available.

Delayed and immediate effects as well as chronic effects from short term and long-term exposure

Serious eye damage/irritation	Irritating to eyes
Irritation	Irritating to eyes & respiration system
Sensitization	No Information Available
Germ Cell mutagenicity	No Information Available
Carcinogenicity	No Information Available
Reproductive toxicity	No Information Available
STOT-single exposure	No Information Available
STOT-repeated exposure	No Information Available
Aspiration hazard	No Information Available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

This product does not exhibit any characteristics of a hazardous waste. The product is suitable for landfill disposal. Follow all applicable federal, state and local regulations for safe disposal. Dispose of in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

Not regulated by DOT as a hazardous material. No hazard class, label or placard required, no UN or NA number assigned.

SECTION 15: REGULATORY INFORMATION

TSCA Inventory: This product and/or its components are not listed on the Toxic Substances Control Act (TSCA) inventory.

SARA 302/304: The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. **Not listed.**

CERCLA: The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: **Not listed.**

SARA 311/312 Hazard: The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: **Non Hazardous.**

SARA 313: This material **does not** contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65 Components: This product **does not** contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

U.S. State Right-to-Know Regulations: Chemical Name: Magnesium Oxide 1309-48-4, in New Jersey, Massachusetts and Pennsylvania. U.S. EPA Label Information, EPA Pesticide Registration Number: Not Applicable.

SECTION 16: OTHER SUPPLEMENTAL INFORMATION

Disclaimer: Prepared by WYK Sorbents, LLC on May 18, 2018

The information and recommendations contained in the Material Safety Data Sheet (MSDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

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