SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **Westco 150**

Other means of identification:

Product Description: Westco 150 is a high purity technical grade of magnesium oxide processed from magnesium rich brine. This fine powder has a very high reactivity index, low bulk density, and excellent flow properties.

Synonyms: Magnesium oxide; calcined brucite magnesia, calcined magnesia, calcined magnesite, magnesite burnt deadburned refreactory, periclase, sea-water magnesia, oxomagnesia

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Westco 150 is well suited for chemical reactions where high reactivity and rapid conversion to magnesium hydroxide are required because of its very high surface area. Its high purity and controlled activity make it an excellent magnesium source for the manufacture of many magnesium compounds. It is used in rubber compounding, plastic thickening, filtrate clarification, odor removal, and a variety of selective absorptions.

Chemical distributor, or other responsible party Name, address, and telephone number:

Distributor Name: Western Reserve Chemical Corporation

Address: 4837 Darrow Road
Stow, OH 44224
USA

General Phone Number: 330 650 2244

General Fax Number: 330 650 2255

Emergency phone number::

Emergency Phone Number: Chemtrec 1 800 424 9300 USA

Website: www.wrchem.com

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Class: Not classified.

Hazard Statements: No Hazard labeling applicable.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure: Dermal; Inhalation.

Acute Health Effects: Most important symptoms and effects, both acute and delayed:
Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use. Do not breathe dust.

Eye: Symptoms/injuries after eye contact: May cause eye irritation.

Skin: Symptoms/injuries after skin contact: Effects of skin contact may include: skin irritation.

Inhalation: Symptoms/injuries after inhalation: Inhalation may cause: irritation, cough, short breathing.

Ingestion: Symptoms/injuries after ingestion: Ingestion generally causes purging of the bowels. Swallowing large amounts may cause bowel obstruction.

Carcinogenicity: Not classified. (Based on available data, the classification criteria are not met)

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Oxides of silicon, iron, aluminum, and calcium	Mixture	2 %	
Magnesium oxide	1309-48-4	98 %	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact:	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
Skin Contact:	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
Inhalation:	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
Notes :	First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Most important symptoms and effects, both acute and delayed: Indication of any immediate medical attention and special treatment needed: No additional medical information found. If you feel unwell, seek medical advice.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Not combustible. If there is a fire close by, use suitable extinguishing agents. Water fog. Carbon dioxide. Dry powder. Foam.

Special protective equipment and precautions for fire-fighters:

Protective Equipment:	Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
Fire Fighting Instructions:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
Notes :	Reactivity: Reacts with: Incompatible materials. Other information: No additional risk management measures required.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personnel Precautions:	Personal precautions, protective equipment and emergency procedures: General measures: Avoid creating or spreading dust. Dust deposited may be vacuum cleaned. For non-emergency personnel: Protective equipment: Where excessive dust may result, use approved respiratory protection equipment. Emergency procedures: Evacuate unnecessary personnel. For emergency responders: Protective equipment: Where excessive dust may result, use approved respiratory protection equipment. Emergency procedures: Ventilate area. If a major spill occurs, all personnel should be immediately evacuated and the area ventilated.

Environmental precautions:

Environmental Precautions:	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and materials for containment and cleaning up:

Methods for containment:	Do not allow minor leaks or spills to accumulate on walking surfaces. Contain and collect as any solid.
Methods for cleanup:	On land, sweep or shovel into suitable containers. Minimize generation of dust.
Notes :	Reference to other sections: See Heading 8. Exposure controls and personal protection.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling:	Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.;Provide good ventilation in process area to prevent formation of dust.
Hygiene Practices:	Smoking, eating and drinking should be prohibited in areas of storage and use. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

Conditions for safe storage, including any incompatibilities:

Storage:	Storage conditions: Keep only in the original container in a cool, well ventilated place away from Incompatible materials. Keep container closed when not in use. Incompatible materials: ACID (Strong) - vigorous reaction, heat generated; Chlorine Trifluoride reacts violently, producing flame; Phosphorous Pentachloride - incandesces brilliantly. NOTE: Exposure to water may cause this product to slowly hydrate, during which heat may be generated (exothermic

reaction).

Notes : Specific end use(s): Reference Section 1.2

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Appropriate engineering controls:

Engineering Controls: Appropriate engineering controls: Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Provide local exhaust ventilation of closed transfer systems to minimize exposures.

Individual protection measures:

Eye/Face Protection: Chemical goggles or safety glasses.

Hand Protection Description: Wear protective gloves: dust impervious gloves.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.;Use air-purifying respirator equiped with particulate filtering cartridges.

UP TO 100 MG/M3: Any dust, mist or fume respirator; any air supplied respirator; or, self-contained breathing apparatus.
UP TO 250 MG/M3: Any supplied air respirator operated in a continuous flow mode or any powered air purifying respirator with a dust/mist/fume filter.
UP TO 500 MG/M3: High efficiency particulate filter with full face piece; any powered air supplied respirator with a tight fitting face piece and a high efficiency particulate filter; any self-contained breathing apparatus with a full face piece; any supplied air respirator with a full face piece.
UP TO 7500 MG/M3: Any air supplied respirator with full face piece and operated in a pressure demand or other positive pressure mode.
EMERGENCY or ENTRY INTO UNKNOWN CONCENTRATIONS: Self-contained breathing apparatus with full face piece and operated in pressure demand mode or air supplied respirator with full face piece operated in a pressure demand or other positive pressure mode in combination with auxiliary self-contained breathing apparatus operated in pressure demand or positive pressure mode.
ESCAPE: Any air purifying full face piece respirator with high efficiency particulate filter or any appropriate escape type self-contained apparatus.

Other Protective: Other information: When using, do not eat, drink or smoke.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Solid
Appearance: Powder.

Color: white.

Odor: Odorless.

Odor Threshold: No data available

Boiling Point: 3600 deg C

Melting Point: 2827 (2797 - 2857) deg C

Density: 3.58 g/cm³
Relative density: No data available

Solubility: In water, material is partially soluble.

Vapor Density: Relative vapor density at 20 deg C: 0

Vapor Pressure: No data available
At 50 deg C: 0 hPa

Evaporation Rate: Relative evaporation rate (butyl acetate=1): No data available

pH: No data available
pH solution: 10.3 saturated aqueous solution

Flash Point: Product does not sustain combustion

Explosive Properties: Product is not explosive.

Explosive limits: No data available

Oxidizing Properties: No data available

9.2. Other information:

Notes : Molecular mass: 40.3 g/mol

Self ignition temperature: No data available

Flammability (solid, gas): No data available

Log Pow: No data available

Log Kow: No data available

SECTION 10 : STABILITY and REACTIVITY

Reactivity:

Reactivity: Reacts with: Incompatible materials.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Chemical Stability:

Chemical Stability:	Stable at ambient temperature and under normal conditions of use.

Conditions To Avoid:

Conditions to Avoid:	Avoid contact with incompatible materials, excessive heat or cold; moisture.

Incompatible Materials:

Incompatible Materials:	ACID (Strong) - vigorous reaction, heat generated; Chlorine Trifluoride reacts violently, producing flame; Phosphorous Pentachloride - incandesces brilliantly. NOTE: Exposure to water may cause this product to slowly hydrate, during which heat may be generated (exothermic reaction).

Hazardous Decomposition Products:

Special Decomposition Products:	If magnesium oxide is heated to the point of volatilization (i.e., > 1700 deg C), magnesium oxide fumes ma y be generated.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute Toxicity:	Not classified. (Based on available data, the classification criteria are not met)
IARC:	Magnesium oxide (1309-48-4): IARC group: Not listed in carcinogenicity class
NTP:	Magnesium oxide (1309-48-4): National Toxicology Program (NTP) Status: Not listed in carcinogenicity class
Eye:	Symptoms/injuries after eye contact: May cause eye irritation.
Skin:	Symptoms/injuries after skin contact: Effects of skin contact may include: skin irritation.
Inhalation:	Symptoms/injuries after inhalation: Inhalation may cause: irritation, cough, short breathing.
Ingestion:	Magnesium oxide (1309-48-4): LD50 oral rat: 3990 mg/kg ATE (oral): 3990.000 mg/kg body weight Symptoms/injuries after ingestion: Ingestion generally causes purging of the bowels. Swallowing large amounts may cause bowel obstruction.
Sensitization:	Respiratory or skin sensitization: Not classified. (Based on available data, the classification criteria are not met)
Mutagenicity:	Germ cell mutagenicity: Not classified. (Based on available data, the classification criteria are not met)
Reproductive Toxicity:	Not classified. (Based on available data, the classification criteria are not met)

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity:	Toxicity: No additional information available

Persistence and degradability:

Biodegradation:	Magnesium oxide (1309-48-4): Persistence and degradability: Not established.

Bioaccumulative potential:

Bioaccumulation:	Magnesium oxide (1309-48-4): Bioaccumulative potential: Not established.

Mobility in soil:

Mobility In Environmental Media:	No information available.
Notes :	Avoid release to the environment.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal:	Waste treatment methods: Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Dispose in a safe manner in accordance with local/national regulations. Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Ecology - waste materials: Avoid release to the environment.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name:	Non regulated.

DOT Pictograms:	
IATA Shipping Name:	Non regulated.
IATA Pictograms:	
IMDG Shipping Name :	Non regulated.
ADR Shipping Name :	Non regulated.
RID Shipping Name :	Non regulated.
ICAO Shipping Name:	Non regulated.
Notes :	In accordance with DOT Not considered a dangerous good for transport regulations Other information: No supplementary information available. Transport by sea: No additional information available Air transport: No additional information available

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

US Federal:	U.S. – Illinois Right-to-Know Toxic Substances List U.S. – Massachusetts Right-to-Know U.S. – Minnesota Right-to-Know U.S. - New Jersey Right-to-Know U.S. – Pennsylvania Right-to-Know U.S. – Rhode Island Right-to-Know
TSCA Inventory Status:	Listed on the United States TSCA (Toxic Substances Control Act) inventory
Section 311/312 Hazard Categories:	Immediate (acute) health hazard
Section 313:	This notification must not be detached from this SDS and any copying of the SDS must include this notice, as required by 40CFR part 372: Magnesium oxide is not subject to Form R reporting requirements.

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard:	1
HMIS Fire Hazard:	0
HMIS Reactivity:	0
HMIS Personal Protection:	E

Health Hazard	**1**
Fire Hazard	**0**
Reactivity	**0**
Personal Protection	**E**

SDS Revision Date:	09/10/18
MSDS Revision Notes:	Indication of changes: Original Document.
Notes :	Important Note: This information relates to the specific product described herein and may not be valid for this material when used in combination with other raw materials. The information provided is without warranty regarding its accuracy or completeness. The information may not be valid under all conditions. The user has the final responsibility for determining the suitability of the product in a given application.