

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 5/22/2025 Revision date: 4/22/2025 Supersedes: 5/20/2022

SECTION 1: Identification					
1.1. Identification					
Product form	: Mixture				
Product name	: Condor MT-4i				
CAS-No.	: Mixture				
Product code Other means of identification	: 6910 · Resin Bonded M	/lagnesia-Carbon	Brick		
1.2. Recommended use and restrictions on t			Briok		
Use of the substance/mixture	: Refractory Brick				
Recommended use	: Industrial use				
1.3. Supplier RHI Magnesita					
One Robinson Plaza, Suite 300 6600 Steubenville Pike Pittsburgh, PA, 15205 United States T 412-494-4491					
Resco_SDS.TDS@rhimagnesita.com - WWW.Resco	Products.com				
1.4. Emergency telephone number					
Emergency number	: EMERGENCY C Outside USA &	ONLY (CHEMTRE Canada +1 703-7		Canada 1-80	0-424-9300
SECTION 2: Hazard(s) identification					
2.1. Classification of the substance or mixtu	ire				
GHS US classification					
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2B Specific target organ toxicity – Single exposure, Cate Respiratory tract irritation Full text of H statements : see section 16		H320 C	auses skii auses eye lay cause		tation
2.2. GHS Label elements, including precauti	onary statemen	ts			
GHS US labeling					
Hazard pictograms (GHS US)					
Signal word (GHS US) Hazard statements (GHS US)	: Warning : H315 - Causes s H320 - Causes s H335 - May cau		ation		
Precautionary statements (GHS US)	: P280 - Wear eye			es, Safety sho	es.
2.3. Other hazards which do not result in cla	assification				
No additional information available					
2.4. Unknown acute toxicity (GHS US)					
No additional information available					
SECTION 3: Composition/Information o	n ingredients				
3.1. Substances					
Not applicable					
3.2. Mixtures					
Name		Product id		%	GHS US classification
Magnesium Oxide		CAS-No.: 13		75 – 95	Not classified
graphite Phenolic Resin		CAS-No.: 77 CAS-No.: 10		10 – 20 1 – 5	Not classified Not classified
Aluminum - metal powder		CAS-No.: 70		1-5	Not classified
Full text of hazard classes and H-statements : see se	ction 16				
SECTION 4: First-aid measures					
4.1. Description of first aid measures					
First-aid measures general	: Never give anyth	hing by mouth to a	an uncons	cious person.	If you feel unwell, seek medical advice

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First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	 Dust when sawing or tear out. Remove the victim into fresh air. Gently wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth with water. Do not induce vomiting.
4.2. Most important symptoms and effects (acute and delayed)
Most Important Symptoms/Effects	: No additional information available.
4.3. Immediate medical attention and specia	al treatment, if necessary
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	media
Suitable extinguishing media Unsuitable extinguishing media	 Use extinguishing media appropriate for surrounding fire. No unsuitable extinguishing media known.
5.2. Specific hazards arising from the chem	ical
Fire hazard Hazardous decomposition products in case of fire	 Not flammable. Do not breathe fumes from fires or vapors from decomposition. Toxic fumes may be released.
5.3. Special protective equipment and preca	
Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting Other information	 Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Product will not burn, but does contain small quantities of chemicals which can generate toxic and/or irritating vapors when initially heated. Under fire conditions hazardous combustion products such as carbon monoxide may be generated. The phenolic resin binder may undergo incomplete combustion when temperature is applied to this product. The intent of this note is as follows: (1) to apprise the customer/user of the potential for incomplete combustion, and (2) to advise that the chemical compounds produced by incomplete combustion by poor air handling practices may exceed TLV's for specific air contaminates. The specific chemical compounds witch may be produced include but are not limited to: carbon monoxide, formaldehyde, phenol, alcohols, glycols, and other solvents.
SECTION 6: Accidental release measur 6.1. Personal precautions, protective equip	
6.1.1. For non-emergency personnel	nent and emergency procedures
Protective equipment Emergency procedures	Safety glasses. Protective gloves. Safety shoes.Avoid contact with skin and eyes.
6.1.2. For emergency responders Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Collect spillage. On land, sweep or shovel into suitable containers.
6.2. Environmental precautions	
No additional information available	
6.3. Methods and material for containment a	and cleaning up
For containment	: Collect spillage.
Methods for cleaning up	
	: Mechanically recover the product.
6.4. Reference to other sections	: Mechanically recover the product.
No additional information available	: Mechanically recover the product.
No additional information available SECTION 7: Handling and storage	: Mechanically recover the product.
No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling	
No additional information available SECTION 7: Handling and storage	 Mechanically recover the product. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling	 Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures	 Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, including a Storage conditions Incompatible products	 Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Inv incompatibilities Store this product in a dry location where it can be protected from the elements. Strong acids.
No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, including a Storage conditions	 Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Inv incompatibilities Store this product in a dry location where it can be protected from the elements. Strong acids. Oxidizing agents and strong acids.
No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, including a Storage conditions Incompatible products Incompatible materials	 Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Inv incompatibilities Store this product in a dry location where it can be protected from the elements. Strong acids. Oxidizing agents and strong acids.
No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, including a Storage conditions Incompatible products Incompatible materials SECTION 8: Exposure controls/persona 8.1. Control parameters Magnesium Oxide (1309-48-4)	 Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Inv incompatibilities Store this product in a dry location where it can be protected from the elements. Strong acids. Oxidizing agents and strong acids.
No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, including a Storage conditions Incompatible products Incompatible materials SECTION 8: Exposure controls/persona 8.1. Control parameters	 Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Inv incompatibilities Store this product in a dry location where it can be protected from the elements. Strong acids. Oxidizing agents and strong acids.

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Magnesium Oxide (1309-48-4) USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	10 mg/m ³ respirable dust
graphite (7782-42-5)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m ³ (Respirable fraction)
Aluminum - metal powder (7429-90-5) USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 mg/m ³ (Respirable fraction)
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Dust when sawing or tear out. Provide adequate ventilation to minimize dust concentrations.
8.3. Individual protection measures/Person	
Hand protection:	
Wear protective gloves.	
Eye protection:	
Chemical goggles or safety glasses	
Skin and body protection:	
Safety shoes	
Respiratory protection:	
Dust when sawing or tear out. Wear appropriate ma	sk
SECTION 9: Physical and chemical pro	perties
9.1. Information on basic physical and cher	
Physical state Appearance	: Solid : Solid in various shapes.
Color	: Black
Odor	: Resin Odor
Odor threshold	: No data available
pH Melting point	: No data available : > 2800 °F
Freezing point	: No data available
Boiling point	: No data available
Flash point Relative evaporation rate (butyl acetate=1)	: No data available : No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density Solubility	: ≈ 2.9 : No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available : No data available
Viscosity, dynamic Explosion limits	: No data available
Explosive properties Oxidizing properties	No data available No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No additional information available	

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10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

The phenolic resin binder may undergo incomplete combustion when temperature is applied to this product. The intent of this note is as follows: (1) to apprise the customer/user of the potential for incomplete combustion, and (2) to advise that the chemical compounds produced by incomplete combustion by poor air handling practices may exceed TLV's for specific air contaminates. The specific chemical compounds witch may be produced include but are not limited to: carbon monoxide, formaldehyde, phenol, alcohols, glycols, and other solvents.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (dermal) :	Not classified Not classified Not classified
Magnesium Oxide (1309-48-4)	
LD50 oral rat	> 5000 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit, Literature study, Dermal)
graphite (7782-42-5)	
LD50 oral rat	> 2000 mg/kg (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)
LC50 Inhalation - Rat	> 2000 mg/m ³ air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust))
Skin corrosion/irritation :	Causes skin irritation.
Magnesium Oxide (1309-48-4)	
рН	11 (10 %)
graphite (7782-42-5)	
рН	7 (1.3 %)
Serious eye damage/irritation :	Causes eye irritation.
Magnesium Oxide (1309-48-4)	
рН	11 (10 %)
graphite (7782-42-5)	
рН	7 (1.3 %)
	Not classified
Germ cell mutagenicity : Carcinogenicity :	Not classified Not classified
Phenolic Resin (108-95-2)	
IARC group	3 - Not classifiable
Reproductive toxicity:STOT-single exposure:STOT-repeated exposure:Aspiration hazard:Viscosity, kinematic:	Not classified May cause respiratory irritation. Not classified Not classified No data available
Magnesium Oxide (1309-48-4)	
Viscosity, kinematic	Not applicable (solid)
Most Important Symptoms/Effects :	No additional information available.

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SECTION 12: Ecological information	
12.1. Toxicity	
graphite (7782-42-5)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Behaviour)
EC50 72h - Algae [1]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)
EC50 72h - Algae [2]	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers)
12.2. Persistence and degradability	
Condor MT-4i (Mixture)	
Persistence and degradability	Rapidly degradable
Magnesium Oxide (1309-48-4)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
graphite (7782-42-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Phenolic Resin (108-95-2)	
Persistence and degradability	Rapidly degradable
Aluminum - metal powder (7429-90-5)	
Persistence and degradability	Biodegradability in soil: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
Magnesium Oxide (1309-48-4)	
Bioaccumulative potential	No bioaccumulation data available.
graphite (7782-42-5)	
Bioaccumulative potential	Not bioaccumulative.
Aluminum - metal powder (7429-90-5)	
Bioaccumulative potential	No test data of component(s) available.
12.4. Mobility in soil	
Magnesium Oxide (1309-48-4)	
Surface tension	No data available in the literature
Ecology - soil	No data available.

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Aluminum - metal powder (7429-90-5)			
Ecology - soil	Contains component(s) that adsorb(s)	into the soil.	
12.5. Other adverse effects	•		
No additional information available			
SECTION 13: Disposal considerations			
13.1. Disposal methods			
	Dispose in a safe manner in accordance	e with local/national regulations.	
SECTION 14: Transport information			
In accordance with DOT / TDG / IMDG / IATA Department of Transportation (DOT) In accordance with DOT Not regulated Transportation of Dangerous Goods Not regulated Transport by sea Not regulated Air transport			
Not regulated			
SECTION 15: Regulatory information			
15.1. US Federal regulations			
Condor MT-4i (Mixture)			
Note	This information must be included in al	I SDS's that are copied and distributed for this material.	
All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:			
Aluminum - metal powder	CAS-No. 7429-90-5	1 – 5%	
Phenolic Resin (108-95-2)			
Subject to reporting requirements of United States SAF Listed on EPA Hazardous Air Pollutant (HAPS)	RA Section 313		
CERCLA RQ	1000 lb		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb		
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb 500lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form		
Aluminum - metal powder (7429-90-5)			
Note	This information must be included in al	I SDS's that are copied and distributed for this material.	
15.2. International regulations CANADA			
Magnesium Oxide (1309-48-4)			
Listed on the Canadian DSL (Domestic Substances List)			
graphite (7782-42-5)			
Listed on the Canadian DSL (Domestic Substances List)			
Phenolic Resin (108-95-2)			
Listed on the Canadian DSL (Domestic Substances List)			
EU-Regulations No additional information available			

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National regulations

No additional information available	
15.3. US State regulations	
Component	State or local regulations
Magnesium Oxide (1309-48-4)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Graphite (7782-42-5)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Phenolic Resin (108-95-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
SECTION 16: Other information	
according to Federal Register / Vol. 77, No. 5	8 / Monday, March 26, 2012 / Rules and Regulations
Revision date	: 4/22/2025
Other information	 Report language name. English. In the event of any conflict between English and other language versions, the English version shall prevail.
Full text of bazard classes and H-stateme	nte

Full text of hazard classes and H-statements

H315	Causes skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation

Safety Data Sheet (SDS), USA

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein, however, RHI Magnesita Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.