

Printing date 05/25/2015

Reviewed on 05/25/20

I Identification of the substance/mixture/product and of the company	
Product identifier	
	Brand Code 8747
Trade name: Application of the	ANKERFRIT 041
substance / the mixture	Refractory product
Details of the supplier of the safe	ety data sheet
Manufacturer/Supplier:	RHI Canada Inc.
	4355 Fairview Street
	Burlington, Ontario L7L 2A4 Canada
	Tel 905-639-8660
Information department:	MSDS Technical Information
Emergency telephone	Mail: msds@rhi-ag.com
number:	Tel: +43 699 1870 5426
	Fax: +43 502 13 5364
Hazard(s) identification	
Information concerning	
particular hazards for	net envlice ble
human and environment: Hazard pictograms	
······	PE
	GHS05
Signal word	Danger
Hazard-determining	
components of labeling: Hazard statements	calcium oxide
Precautionary statements	H318 Causes serious eye damage. P280 Wear protective gloves/protective clothing/ey
-	protection/face protection.
	P305+P351+P338 If in eyes: Rinse cautiously with water for severa minutes. Remove contact lenses, if present and easy t
	do. Continue rinsing.
Classification system	P310 Immediately call a poison center/doctor
NFPA ratings (scale 0-4)	
ni i A railiya (acale 0-4)	Health = 1
	Fire = 0
	0 Reactivity = 0
HMIS Classification	
	HEALTH 1 Health = 1
	FIRE 0 Fire = 0
	REACTIVITY 0
Carcinogenicity:	not listed
Other hazards	See section 11

See section 11.

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3 Composition/information on ingredients

Chemical Descrij	characterization: Mixt	u res Unshaped product for refracto	ry use on basis of	
Danger	ous components:			
1309-48-4	magnesium oxide			60-100%
1305-78-8	calcium oxide		Xi R41 🔗 Eye Dam. 1, H318	5-7%
8012-95-1	Paraffin oils			0.1-1%
Additio	nal information	silicate, etc.) or immobilized a	ifferent bound forms (calcium ferr s the magnesia raw material. The therefore not classified as danger	lime is not

4 First-aid measures

Description of first aid measures After inhalation After skin contact After eye contact	Supply fresh air; consult doctor in case of complaints. Immediately wash with water and soap and rinse thoroughly. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing Information for doctor / Note Most important symptoms and effects, both acute	
and delayed: Indication of any immediate medical attention and special	No further relevant information available.
treatment needed:	No further relevant information available.

5 Fire-fighting measures

Extinguishing media For safety reasons unsuitable	
extinguishing agents	Not applicable, the product is fire resistant.
Special hazards arising from the	
substance or mixture	No further relevant information available.
Advice for firefighters	
Protective equipment /	
Protection of firefighters:	No special measures required.
Harzardous combustion	
products	Will not occur.
Flammable properties	The product is fire resistant.
	Not flammable.
Additional information:	Additional information see section 9.

6 Accidental release measures

Personal precautions, protective equipment and emergency	
procedures	See section 8.
Environmental precautions:	See section 12.
Methods and material for	
containment and cleaning up:	Ensure adequate ventilation.
Reference to other sections	See Section 7 for information on safe handling.
	See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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7 Handling and storage

Handling

Precautions for safe handling Prevent formation of dust. Information about protection against explosions and fires: The product is not flammable.

 Conditions for safe storage, including any incompatibilities

 Storage

 Requirements to be met

 by storerooms and

 receptacles:
 No special requirements.

 Information about storage

 in one common storage

 facility:
 Not applicable.

 Further information about

 storage conditions:
 Keep receptacle tightly sealed.

 Specific end use(s)
 No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems:

No further data; see item 7.

Control parameters

	trol parameters	
E	Exposure Guidelines (Compo	nents with limit values that require monitoring at the workplace):
1309	9-48-4 magnesium oxide	
PEL	Long-term value: 15* mg/m ³ fume; *total particulate	
TLV	Long-term value: 10* mg/m ³ *as inhalable fraction	
1305	5-78-8 calcium oxide	
PEL	Long-term value: 5 mg/m ³	
REL	Long-term value: 2 mg/m ³	
TLV	Long-term value: 2 mg/m ³	
8012	2-95-1 Paraffin oils	
PEL	Long-term value: 5 mg/m ³	
REL	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ oil mist	
TLV	L	
	Additional information:	The lists that were valid during the creation were used as basis.
	osure controls Personal protective equipmer General protective and	nt (PPE)
	hygienic measures	Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
	Respiratory protection / Breathing equipment:	NIOSH approved respirators should be used if dust is present. A respiratory protection program should be implemented if exposure exceeds OSHA PELs.
	Respiratory protection	Filter P100

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Safety Data Sheet

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Protection of hands:	Leather gloves Protective gloves	(Contd. of page 3)
Eye/face protection:	Safety glasses with side shields	
Skin protection:	Protective work clothing.	

Information on basic physical and ch	emical properties	
General Information		
Appearance:		
Form (Physical state):	Solid	
Color:	Dark	
Odor: Odor threshold:	Odorless Not determined.	
pH-value:	Not applicable.	
Melting point / Melting range:	2802 °C (5076 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous)	Product is not flammable.	
	See section 5.	
Ignition temperature:	Not applicable.	
Decomposition temperature:	Not applicable.	
Auto igniting:	Product is not self igniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not applicable.	
Upper:	Not applicable.	
Vapor pressure:	Not applicable.	
Relative density	Not applicable.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with	Not applicable.	
Water:	Insoluble.	
Partition coefficient (n-octanol/wa	iter): Not applicable.	
Viscosity:	Not applicable.	
dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	

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Additional information	Melting Point: NA	
	Freezing Point: NA	
	Viscosity (and units): NA	
	Odor Threshold (ppm): NA	
	Evaporation Rate (relative to): NA	
	Vapor Density (air =1): NA	
	Vapor Pressure (units): NA	
	pH (undiluted): NA	
	pH (diluted): NA	
	% dilution: NA	
	VOC Content: NA	
	% Volatile: NA	
	PM Content: NA	

10 Stability and reactivity

Reactivity Chemical stability Conditions to avoid	
	No decomposition if used and stored according to specifications.
Possibility of hazardous	
reactions	No dangerous reactions known
Conditions to avoid	No further relevant information available.
Hazardous decomposition	
products:	No dangerous decomposition products known

11 Toxicological information

Information on toxicological effect Acute toxicity: LD/LC50 values that are	cts
relevant for classification: Primary irritant effect:	Not applicable.
on the skin:	Irritant to skin and mucous membranes. May cause dryness and irritation
on the eye:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Allergic reaction: Additional toxicological	No known allergic reaction.
information:	Irritant
	If this product has been in service at temperatures greater than 1000°C (1800°F) it may contain cristobalite, a form of crystalline silica. IARC has classified crystalline silica, which includes cristobalite, as a group I carcinogen (known human carcinogen).
Carcinogenic categories	
	ncy for Research on Cancer)
None of the ingredients is listed.	
NTP (National Toxicolog	gy Program)
None of the ingredients is listed.	
OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

12 Ecological information

Toxicity Aquatic toxicity:

No further relevant information available.

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No further relevant information available.
ems:
No further relevant information available.
No further relevant information available.
n:
Do not allow large quantities of undiluted product to reach ground water, water course or sewage system.
sment
Not applicable.
Not applicable.
No further relevant information available.

13 Disposal considerations

Waste treatment methods Recommendation	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.

14 Transport information

not applicable	
not applicable	
not applicable	
not applicable	
Not applicable.	
Not applicable. Not applicable.	
of Not applicable.	
Not dangerous according to available informations.	
-	
	not applicable not applicable not applicable Not applicable. Not applicable. Not applicable. of Not applicable.

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

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Chemicals known to ca	ause reproductive toxicity for males:
None of the ingredients is listed.	
Chemicals known to c	ause developmental toxicity:
None of the ingredients is listed.	
WHMIS	D2B - Toxic material causing other toxic effects
Cancerogenity categories	
EPA (Environmental P	rotection Agency)
None of the ingredients is listed.	
-	/alue established by ACGIH)
1309-48-4 magnesium oxide	A4
-	m Workplace Concentration)
None of the ingredients is listed.	
	stitute for Occupational Safety and Health)
None of the ingredients is listed.	
GHS label elements	The product is classified and labeled according to the Globally Harmonized System (GHS).
Hazard pictograms	
	P
	<u> </u>
	GHS05
Signal word	Danger
Hazard-determining components of labeling:	calcium oxide
Hazard statements	H318 Causes serious eye damage.
Precautionary statements	P280 Wear protective gloves/protective clothing/eye
	protection/face protection. P305+P351+P338 If in eyes: Rinse cautiously with water for several
	minutes. Remove contact lenses, if present and easy to
	do. Continue rinsing.
	P310 Immediately call a poison center/doctor
National regulations:	
SARA 313 TOXIC CHE	MICALS
No material listed in the componen	ts in Section 3 of this MSDS is on the SARA 313 list.
SARA 302 EXTREMEL	Y HAZARDOUS SUBSTANCES
No material listed in the componen	ts in Section 3 of this MSDS is on the SARA 302 list.
TSCA (Toxic	
Substances Control Act)	This substance or all the ingredients of this product are on the Chemical
Act)	Substances Inventory of the Toxic Substances Control Act (TSCA
	Inventory). The presence on this list does not require any legal reporting
HMIS Classification	Class D - Division2 - Subdivision B Untested mixture containing a toxic material
	This product has been classified in accordance with hazard criteria of the
	Controlled Products Regulations (CPR) and the SDS contains all
	information required by the CPR.
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
16 Other information	
	present knowledge. However, this shall not constitute a guarantee for any not establish a legally valid contractual relationship.
Department issuing SDS:	RHI AG Technology Center

Chemistry Department Austria Phone: +43 502 13 5426

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revision

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for USA: **Brian Plaskett** Corporate EHS Manager RHI Canada Inc. / RHI US Ltd. / Veitsch-Radex America LLC Cell: (519) 318-5401 Fax: (905) 639-1299 (Burlington) Mail: brian.plaskett@rhi-ag.com Date of preparation / last 05/25/2015 / 51 Abbreviations and acronyms: Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 * Data compared to the previous version altered.

USA