

Printing date 05/25/2015

## 1 Identification of the substance/mixture/product and of the company

Product identifier Brand Code 8432

Trade name: ANKERHARTH NN25

Application of the

substance / the mixture Refractory product

Details of the supplier of the safety data sheet

Manufacturer/Supplier: RHI AG

Wienerbergstraße 9 A-1100 WIEN Tel:: +43/(0)50213-0

Information department: E-Mail: msds@rhi-ag.com

Tel: +43 502135361

**Emergency telephone** 

number:

Tel: +43 699 1870 5426 Fax: +43 502 13 5364

## 2 Hazard(s) identification

Information concerning particular hazards for

Hazard pictograms

human and environment: not applicable



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.

Classification system

NFPA ratings (scale 0-4)



Health = 1 Fire = 0 Reactivity = 0

**HMIS Classification** 



Health = 1 Fire = 0 Reactivity = 0

Carcinogenicity:
Other hazards

not listed

See section 11.

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## 3 Composition/information on ingredients

**Chemical characterization: Mixtures** 

**Description:** Unshaped product for refractory use on basis of

Dangerous components:					
1309-48-4	magnesium oxide		60-100%		
1305-78-8		Xi R41 Eye Dam. 1, H318	5-7%		

Additional information

The product contains lime in different bound forms (calcium ferrite, calcium silicate, etc.) or immobilized as the magnesia raw material. The lime is not present in the free form and is therefore not classified as dangerous.

## 4 First-aid measures

**Description of first aid measures** 

After inhalation Supply fresh air; consult doctor in case of complaints.

After skin contact Immediately wash with water and soap and rinse thoroughly.

After eye contact Rinse opened eye for several minutes under running water. If symptoms

persist, consult a doctor.

After swallowing If symptoms persist consult doctor.

Information for doctor / Note to physicians

Most important symptoms and effects, both acute

and delayed: No further relevant information available.

Indication of any immediate medical attention and special

**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

**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**

Exposure Guidelines	(Components with	limit values that re	equire monitoring	g at the workplace):

### 1309-48-4 magnesium oxide

PEL Long-term value: 15\* mg/m³ fume; \*total particulate

TLV Long-term value: 10\* mg/m³
\*as inhalable fraction

## 1305-78-8 calcium oxide

PEL Long-term value: 5 mg/m³ REL Long-term value: 2 mg/m³

TLV Long-term value: 2 mg/m<sup>3</sup>

Additional information: The lists that were valid during the creation were used as basis.

### **Exposure controls**

Personal protective equipment (PPE)

**General protective and** 

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

**Protection of hands:** 

Leather gloves Protective gloves

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**Eye/face protection:** Safety glasses with side shields

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Safety glasses

**Skin protection:** Protective work clothing.

Physical and chemical propert	ties
Information on basic physical and ch	nemical properties
General Information	
Appearance:	0.151
Form (Physical state): Color:	Solid
Color: Odor:	Dark Odorless
Odor threshold:	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	ater): Not applicable.
Viscosity:	Not applicable.
dynamic:	Not applicable.
kinematic:	Not applicable.
Other information	No further relevant information available.
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 pH (diluted): NA
	% dilution: NA
	VOC Content: NA
	% Volatile: NA
	PM Content: NA

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## 10 Stability and reactivity

Reactivity

Chemical stability
Conditions to avoid

(Thermal decomposition): 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 effects

Acute toxicity:

LD/LC50 values that are

relevant for classification: Not applicable.

Primary irritant effect:

**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: No known allergic reaction.

Additional toxicological

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

### IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

## NTP (National Toxicology 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. Persistence and degradability No further relevant information available.

Behavior in environmental systems:

**Bioaccumulative potential**Mobility in soil
No further relevant information available.
No further relevant information available.

Additional ecological information:

General notes: Do not allow large quantities of undiluted product to reach ground water,

water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

Other adverse effects No further relevant information available.

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# 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.

Transport information	
UN-Number	
DOT, ADR, ADN, IMDG, IATA	not applicable
UN proper shipping name	
DOT, ADR, ADN, IMDG, IATA	not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	not applicable
Packing group	
DOT, ADR, IMDG, IATA	not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Danger code (Kemler):	Not applicable.
Transport in bulk according to Annex	x II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to available informations.
UN "Model Regulation":	-

## 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.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

WHMIS D2B - Toxic material causing other toxic effects Cancerogenity categories

**EPA (Environmental Protection Agency)** 

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

1309-48-4 magnesium oxide

MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

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NIOSH-Ca (National Institute for Occupational Safety and Health)

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None of the ingredients is listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized

System (GHS).

Hazard pictograms



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.

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minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P310 Immediately call a poison center/doctor.

National regulations:

**SARA 313 TOXIC CHEMICALS** 

No material listed in the components in Section 3 of this MSDS is on the SARA 313 list.

**SARA 302 EXTREMELY HAZARDOUS SUBSTANCES** 

No material listed in the components 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

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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Abbreviations and acronyms: Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

\* Data compared to the previous version altered.