

Printing date 04/20/2005 Reviewed on 04/20/2005

I Identification of substance:

· Product details:

· Trade name: RESISTAL 052B

· Application of the

substance / the preparation Refractory product

· Manufacturer/Supplier:

RHI Canada Inc.

4355 Fairview Street

Burlington, Ontario L7L 2A4

Canada

Tel 905-639-8660

· Information department:

MSDS Technical Information: 905-639-8660

· Emergency information: Tel: -

Tel: +43 50213 5361 Fax: +43 50213 5364

CHEMTREC 24 HOUR EMERGENCY PHONE NUMBER: 1-

800-424-9300

2 Composition/Data on components:

· Chemical characterization

• **Description:** Shaped refractory product on the basis of

· Dangerous components:

1344-28-1 aluminium oxide

75-100%

3 Hazards identification

· Hazard description: not applicable

· Carcinogenicity Information: No ingredient in this product is found on the NTP, IARC or OSHA

lists of known human carcinogens.

· Classification system The classification was made according to the latest editions of

international substances lists, and expanded upon from company

· NFPA ratings (scale 0-4)

and literature data. Health = 0 Fire = 0Reactivity = 0

· HMIS Classification

 $\begin{array}{c|c} & \textbf{0} & Health = 0 \\ & \textbf{0} & Fire = 0 \\ Reactivity & \textbf{0} \end{array}$

4 First aid measures

• General information No special measures required.

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

• After skin contact Generally the product does not irritate the skin.

• After eye contact Rinse opened eye for several minutes under running water. Then

consult a doctor.

· After swallowing If symptoms persist consult doctor.

5 Fire fighting measures

• Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with

water spray or alcohol resistant foam.

• Protective equipment: Wear self-contained breathing apparatus

(Contd. on page 2)

TISA

Printing date 04/20/2005 Reviewed on 04/20/2005

Trade name: RESISTAL 052B

(Contd. of page 1)

6 Accidental release measures

· Person-related safety

precautions:

see section 8

· Measures for environmental

protection:

see section 12

• Measures for cleaning/collecting: Dispose of the collected material according to regulations.

· Additional information: No dangerous substances are released.

7 Handling and storage

· Handling

· Information for safe

handling:

Prevent formation of dust.

· Information about protection against explosions and fires:

The product is not flammable

· 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:

None.

8 Exposure controls and personal protection

· Additional information about

design of technical systems:

No further data; see item 7.

· Components with limit values that require monitoring at the workplace:

1344-28-1 aluminium oxide

PEL 15*;5** mg/m³

*Total dust **Respirable fraction

 10 mg/m^3

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

· Personal protective equipment

General protective and

hygienic measures

The usual precautionary measures for handling chemicals should be followed.

· Breathing equipment:

NIOSH approved respirators should be used if dust is present. A respiratory protection program should be implemented if

exposure exceed OSHA PELs.

· Respiratory protection

Filter P100

· Protection of hands:

Leather gloves Protective gloves

· Eve protection:

Safety glasses with side shields

· Body protection:

Protective work clothing.

9 Physical and chemical properties:

· General Information

· Form: Solid material. · Color: Dark

Characteristic · Odor:

(Contd. on page 3)

Printing date 04/20/2005 Reviewed on 04/20/2005

Trade name: RESISTAL 052B

		(Contd. of page 2)
· Change in condition · Melting point/Melting range: · Boiling point/Boiling range:	2050°C (3722°F) 2980°C (5396°F) undetermined	
· Flash point:	Not applicable	
· Auto igniting:	Product is not self igniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Density at 20°C (68°F):	3.97 g/cm³ Not determined	
· Bulk density at 20°C (68°F):	920 kg/m³	
· Solubility in / Miscibility with · Water:	Insoluble	
· Solvent content: · Organic solvents:	0.0 %	
· Solids content:	100.0 %	

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided: · Dangerous reactions · Dangerous products of

No decomposition if used and stored according to specifications.

No dangerous reactions known

· Dangerous products of decomposition:

No dangerous decomposition products known

11 Toxicological information

· Acute toxicity:

· Primary irritant effect:

on the skin:
on the eye:

No irritant effect. No irritating effect.

· Allergic reaction:

No known allergic reaction.

· Additional toxicological

information:

The product is not subject to classification according to internally

approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

· General notes:

Do not allow large quantities of undiluted product to reach ground water, water course or sewage system.

13 Disposal considerations

· Product:

· Recommendation

Can be disposed of with household garbage after consulting with the waste disposal facility operator and the pertinent authorities

and adhering to the necessary technical regulations.

· Uncleaned packagings:

· Recommendation:

Disposal must be made according to official regulations.

TICA

Printing date 04/20/2005 Reviewed on 04/20/2005

Trade name: RESISTAL 052B

(Contd. of page 3)

14 Transport information

- · DOT regulations:
 - · Hazard class:
- · Land transport ADR/RID (cross-border)
 - · ADR/RID class:
- · Maritime transport IMDG:
 - · IMDG Class:
- · Air transport ICAO-TI and IATA-DGR:
 - · ICAÔ/IATA Class:
- · Transport/Additional information:

Not dangerous according to available informations.

15 Regulations

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

1344-28-1 aluminium oxide A4

· MAK (German Maximum Workplace Concentration)

1344-28-1 aluminium oxide 2

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

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard informations:

Observe the general safety regulations when handling chemicals

· Safety phrases:

Do not breathe dust.

In case of contact with eyes, rinse immediately with plenty of

water and seek medical advice.

Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately.

If swallowed, seek medical advice immediately and show this container or label.

In case of accident by inhalation: remove casualty to fresh air and keep at rest

If swallowed, rinse mouth with water (only if the person is conscious)

· Special labeling of certain preparations:

If dust or fumes are present, wear NIOSH approved respirator.

· National regulations

· SARA 313 TOXIC CHEMICALS

All ingredients are listed.

· SARA 302 EXTREMELY HAZARDOUS SUBSTANCES

No material listed in the components in Section 2 of this MSDS is on the SARA 302 list.

(Contd. on page 5)

Printing date 04/20/2005 Reviewed on 04/20/2005

Trade name: RESISTAL 052B

· TSCA (Toxic Substances

Control Act)

(Contd. of page 4)

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

• Water hazard class: Generally not 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.

* Data compared to the previous version altered.

USA