



Material Safety Data Sheet

Tianjin New Century Refractories Ltd.

PRODUCT HEALTH AND SAFETY INFORMATION

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY.

Product Name	T32~34 Serials
Product Type	3200~3400°F Alumina Bubble Insulating brick
Description	Refractory Shape
Supplier	Tianjin New Century Refractories Ltd. Tianjin, China 300203
Contact	Dr. Yong S. Dai Tele: +86-22-8558-9019 or (Mobile: +86-139-20222332)

2. COMPOSITION/INFORMATION ON INGREDIENTS.

<u>CAS No.</u>	<u>Component</u>	<u>Range</u>	<u>Risk Phrases</u>
1344-28-1	Non-fibrous Alumina (Al ₂ O ₃)	80-100%	-
7631-86-9	silicon dioxide, chemically prepared	10-20%	-
69012-64-2	Amorphous Silica (SiO ₂)	0-1%	-

3. HAZARD IDENTIFICATION.

- **Hazard description:** Irritant
- **Medical conditions aggravated by exposure to the product:** Asthma, chronic lung disease, and skin irritation.
- **Carcinogenicity Information:** No known information available.
- **Information pertaining to particular dangers for man and environment:** The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Irritating to eyes, respiratory system and skin.
- **NFPA ratings (scale 0-4)**

	Health = 1 Fire = 0 Reactivity = 0
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· HMIS Classification

HEALTH	*1	Health: *1
FIRE	0	Flammability: 0
REACTIVITY	0	Reactivity: 0

4.FIRST AID MEASURES.

Skin Contact:	Wash off any dust with soap and water.
Eye Contact:	Immediately gently irrigate with clean water and seek medical assistance.
Inhalation:	Remove to fresh air and seek medical assistance.
Ingestion:	Give water to drink and get medical advice.

5. FIRE FIGHTING MEASURES.



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Refractory products are heat resistant and therefore are not expected to burn.
Use extinguishing media appropriate to surrounding fire and packaging materials etc,
No special measures are required.

6. ACCIDENTAL RELEASE MEASURES.

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection: No special measurement required.

Measures for cleaning/collecting: Disposal contaminated products as waste according to Item 13. Ensure adequate ventilation.

7. HANDLING AND STORAGE.

Appropriate measures for size of item in line with national guidelines Any dust arising from handling may be regarded as non-hazardous.

Store in a dry area away from heat and flames that could ignite packaging material.

8. EXPOSURE CONTROL/PERSONAL PROTECTION.

Occupational Exposure Limits

CAS No.	Substance	PEL	REL	TLV
1344-28-1	Non-fibrous Alumina (Al ₂ O ₃)	15 mg/m ³	-	10 mg/m ³
69012-64-2	Amorphous Silica (SiO ₂)	-	-	2 R mg/m ³

* Total dust ** respirable dust

Control Measures

Where user operations (Such as grinding or wrecking) are likely to generate dust, local ventilation should be employed. It may be necessary dependent upon the users' assessment of the process to undertake a program of monitoring to demonstrate that any Occupational Exposure Standard is not normally exceeded.

Personal Protection

Eye Protection: Safety glasses with side shields recommended.
Hand Protection: Suitable non-slip work gloves.
Respiratory Protection: Use a nationally approved dust mask during wrecking.
Body Protection: Overalls and safety footwear advisable.

Breathing equipment



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

Protection of hands



Protective gloves recommended

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the



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resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

9. PHYSICAL AND CHEMICAL PROPERTIES.

Appearance: White solid shape
Odor: No discernible odor at ambient temperature
Melting Point: Above 1800°C
Density: 1500-1600 Kgm⁻³
Solubility in water: Negligible

10. STABILITY AND REACTIVITY.

Stability: Stable as supplied and at temperature.
Incompatibility: Strong alkalis, hydrofluoric acid, powerful oxidizers fluorine containing compounds Chlorine trifluoride and ethylene oxide.
Hazardous Decomposition: No know hazardous decomposition.

11. TOXICOLOGICAL INFORMATION.

The material is not toxic.
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.
Carcinogenic if inhaled

12. ECOLOGICAL INFORMATION.

General notes:
At present there are no ecotoxicological assessments.

13. DISPOSAL.

Normal landfill waste disposal via authorized contractor, observing any national Environmental Protection Regulations. Packaging material should be sorted and recycled where appropriate. Dust generated during demolition of used product may contain crystalline silica.

14. TRANSPORT.

No special labeling or transport requirements have been identified for this product.

15. REGULATORY INFORMATION.

No labeling is required in accordance with the Chemical (Hazard Information and Packaging) for Supply (Amendments) Regulations 1997.

No risk/safety phrases.

Format of Data sheet is in line with the Safety Data Sheets Directive (93/112/EEC)

Complies with the requirements of the Control of Substances Hazardous to Health Regulations 1994.

Additional Environmental Regulatory Information

This material contains the substances listed below which are regulated pollutants pursuant to the Clean Water Act. (40 CFR 122.21 and 40 CFR 122.42 with reference to Appendix D, Tables II-V). Any unpermitted introduction of this material onto the facility's storm water or process wastewater discharge is a violation fo the Clean Water Act. Facilities must notify the appropriate permitting agency prior to



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introducing this material into its discharges.

- aluminum (as aluminum oxide)

There may be specific regulations at the local, regional or state level that pertain to this material.

16. OTHER INFORMATION.

This information is provided to enable customers to assess the health and safety requirements of products. Whilst it is given in good faith, and taken from sources believed to be accurate at the date hereof; Tianjin New Century Refractories Ltd. makes no expressed or implied warranty with respect to the accuracy of the information or the suitability of the recommendations and assumes no liability to any user thereof and cannot accept any responsibility for loss or damage arising from use, or reliance upon this information.

Any further new information on the safety aspects of our products will be supplied as and when it becomes available.