

**Trade Name: Spherical Alumina** 

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1. IDENTIFICATION
Product Identifier Spherical Alumina

Synonyms: BAK 20, BAK 30, BAK 70, BAK 100, BAK 120, SFA-02, SFA-40,

SFA-70, SFA-120

**CAS Number:** 1344-28-1

**Recommended Use:** Abrasives, Refractories, Ceramics

Manufacturer/Supplier: GNPGraystar GNPGraystar

37 John Glenn Dr. 9 Simmonsville Road Amherst, NY 14228 Bluffton, SC 29910

**Emergency telephone** 716-759-6600 843-815-5600

### 2. HAZARD(S) IDENTIFICATIONS

Classifications of the substance or mixture:

The substance is not classified as hazardous according to the Globally Harmonized System (GHS).

Additional Information: Not hazardous as delivered. Long term inhalation of product dusts

formed during use is harmful. There are no other hazards not otherwise that have been identified. 0 percent of the mixture

consists of ingredient(s) of unknown toxicity.

**Label Elements** 

GHS Label Elements: The product is NOT classified as hazardous according to OSHA

Globally Harmonized System (GHS) regulations within the United

States

Signal Word: Not Regulated

Hazard-determining components of labeling:

None

Hazard Statements: Not Regulated

Precautionary Statement: Not Regulated

**Hazard Description:** 

WHMIS Symbols: Not hazardous under WHMIS

**Classification System:** 

NFPA Ratings (scale 0-4)

Health = 0; Fire = 0; Reactivity = 0

HMIS Ratings (scale 0-4)

Health = 0; Fire = 0; Reactivity = 0

HMIS Long Term Health Hazard Substances None of the ingredients are listed



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#### Other Hazards:

Results of PBT and vPvB Assessment

**PBT:** Not applicable **vPvB:** Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Description: Mixture of substances listed below with nonhazardous additions

### **Dangerous Components:**

CAS No.:	EC No.:	Ingredient:	Weight %	Hazard Statement & Pictogram
1344-28-1	215-691-6	Aluminum Oxide	> 99	Substance with a Community workplace exposure limit.

#### Additional Information:

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret. For the wording of the listed risk phrases refer to section 16.

#### 4. FIRST-AID MEASURES

General Information: No special measures required

After inhalation: Supply fresh air, consult doctor

After inhalation: Supply fresh air, consult doctor in case of complaints. Provide oxygen treatment if affected person has difficulty

breathing

After skin contact: Brush off loose particles from skin

Clean with water and soap

If skin irritation continues, consult doctor

**After eye contact:** Immediately remove contact lenses if possible.

Rinse opened eye for several minutes under running water. If

symptoms persist, consult a doctor

After swallowing: Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help

Most important symptoms and effects, both acute and delayed:

Coughing
Breathing difficulty

Gastric or intestinal disorders

**Danger:** Danger of impaired breathing

Indication of any immediate medical attention and special

treatment needed:

No further relevant information available

#### 5. FIRE-FIGHTING MEASURES

FLASH POINT: Not Applicable



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FLAMMABLE LIMITS: LEL: Not Applicable UEL: Not Applicable

**AUTO IGNITION TEMPERATURES:** Not Applicable

**EXTINGUISHING MEDIA:** Use media appropriate for surrounding fire

FIRE AND EXPLOSION HAZARDS: Non-flammable, non-combustible. Product will not burn.

HAZARDOUS DECOMPOSITION PRODUCTS: None

FIRE FIGHTING INSTRUCTIONS: Wear self-containing respiratory protective device. Wear

fully protective suit.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment & Emergency

**Procedures:** 

Avoid formation of dust; Do not breathe dust.

Ensure adequate ventilation.

For large spills, wear protective clothing.

Use respiratory protective device against the effects of

fumes/dust/aerosol.

**Environmental Precautions:** Avoid release to the environment

**Methods and Material for** 

**Containment and Cleaning Up:** 

Pick up mechanically. Dispose contaminated materials as waste according to item 13. Send for recovery or disposal in

suitable receptacles.

**Reference to other sections:** See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly

removed.

Do not dry clean dust covered objects and floors. Wash

thoroughly with plenty of water.

Use only in well ventilated areas. Avoid breathing dust.

Information about protection against explosions and fires:

No special measures required

Conditions for safe storage, including incompatibilities:

Requirements to be met by storerooms and receptacles:

No special requirements



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Information about storage in one

Do not store together with acids.

common storage facility:

Do not store together with alkalis (caustic solutions).

Store away from foodstuffs

Further information about

storage conditions:

Store in cool, dry conditions in well-sealed receptacles

Protect from humidity and water

**Specific End Use(s):.** No further information available

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control Parameters**Components with limit values that require monitoring at the

workplace:

Aluminum Oxide (Cas# 1344-28-1):

PEL (USA) Long-term value: 15\* 5\*\* mg/m<sup>3</sup>

fibrous dust: \*total dust \*\* respirable fraction

REL (USA)

Long-term value: 10\* 5\*\* mg/m³

\*as Al total dust\*\* respirable fraction

TLV (USA) Long-term value: 1\* mg/m³

as Al; \*as respirable fraction.

**EL (Canada)** Long-term value: 1 mg/m³

Respirable, as Al.

EV (Canada) Long-term value: 10 mg/m³

Total dust

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

**Exposure Controls:** 

**General Protective and Hygienic** 

Measures:

The usual precautionary measures for handling chemicals

should be followed.

Wash hand before breaks and at the end of work.

Avoid contact with the eyes.

Avoid close or long-term contact with the skin.

Do not inhale dust.

**Engineering controls:** No further relevant information available

**Eye/Face Protection:** Safety glasses or goggles to prevent dust and particles from

entering the eye

**Skin Protections:** Wear gloves for the protection against mechanical hazards

according to OSHA and NIOSH rules. The glove material must be impermeable and resistant to the product/ the substance/the

preparation.

**Respiratory Protection:** Use suitable respiratory protective device in case of insufficient

ventilation

For spills, respiratory protection may be advisable

**Body Protection:** Not required under normal conditions of use.

Protection may be required for spills.



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**Limitation and Supervision of Exposure into the Environment:**  No special requirements

**Risk Management Measures:** No special requirements (see section 7 for additional

information).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Granulate / Crystalline Powder

Color Whitish Odor Odorless **Odor threshold** Not determined Melting/Freezing point > 2500°C (3632°F) > 2900°C (5252°F) Initial Boiling point/Boiling Range Flash point Not applicable

**Flammability** Product is not flammable

**Upper/Lower flammability** Not determined

explosive limit

**Vapor Pressure** Not applicable Density at 20°C (68 °F) 3.95 g/cm3 Relative density Not determined Solubility Insoluble **Partition coefficient** Not determined **Auto-ignition temperature** Not determined **Decomposition temperature** Not determined **Explosive Properties** Not determined

#### 10. STABILITY AND REACTIVITY

Thermal Decomposition / **Conditions to be Avoided:**  No decomposition if used and stored according to specifications

**Possibility of Hazardous** Reactions:

Reacts with strong acids. Reacts with oxidizing agents.

Reacts with strong alkali

**Incompatible Materials:** Oxidizers, strong bases, strong acids

**Hazardous Decomposition:** Toxic metal compounds

**Conditions to Avoid:** No further relevant information available

#### 11. TOXICOLOGICAL INFORMATION

**Information on Toxicological Effects** 

LD/LC50 values that are relevant for classification:

**Acute Toxicity:** LD50 Oral - Rat - > 10,000 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - 4 h - > 2.6 mg/l

(OECD Test Guideline 403)



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Remarks: No significant adverse effects were reported

No irritant effect on skin and mucous membranes On the skin:

No eye irritation On the eye:

Sensitization: No sensitizing effects known

Subacute to chronic toxicity: No further relevant information available

### **Additional Toxicological Information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for the Preparations as issued in the latest version.

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

Acute Effects (acute toxicity,

irritation and corrosivity):

From product as supplied: None

Repeated Dose Toxicity: No further relevant information available

#### 12. ECOLOGICAL INFORMATION

**Aquatic Toxicity:** No toxicity at the limit of solubility

Persistence and degradability: No further relevant information available

Other Adverse Effects: No further relevant information available

**Bio accumulative Potential:** Does not accumulate in organisms

Mobility in soil: No further relevant information available

**General notes:** Generally not hazardous for water.

### 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Smaller quantities can be disposed of with household waste.

> The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous

nonhazardous wastes.

**Contaminated Packaging:** Disposal must be made according to official regulations

#### 14. TRANSPORT INFORMATION

DOT, ADR, ADN, IMDG, IATA: UN proper shipping name

Not regulated

DOT, ADR, ADN, IMDG, IATA:

Transport hazard class(s)

Not regulated



(DSL):

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DOT, ADR, ADN, IMDG, IATA: Class	Not regulated		
Packing group DOT, ADR, IMDG, IATA	Not regulated		
Environmental Hazards:			
Marine pollutant:	No		
Special precautions for User	Not applicable		
Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code	Not applicable		
UN "Model Regulation"			
45 DECILI ATORY INFORMATION			
15. REGULATORY INFORMATION	All ingradients are listed		
SARA 313 Components:	All ingredients are listed		
SARA 355 Components:	None of the ingredients are listed		
TSCA	All ingredients are listed		
California Proposition 65: Chemicals known to cause cancer (present in trace quantities):	None of the ingredients are listed		
Chemicals known to cause reproductive toxicity to females:	None of the ingredients are listed		
Chemicals known to cause reproductive toxicity in males:	None of the ingredients are listed		
Chemicals known to cause developmental toxicity:	None of the ingredients are listed		
Carcinogenic Categories:			
EPA (Environmental Protection Agency):	None of the ingredients are listed		
IARC (International Agency for Research on Cancer):	CAS# 1309-37-1 diiron trioxide / iron (III) oxide		
TLV (Threshold Limit Value	1344-28-1 aluminum oxide (A4)		
established by ACGIH):	1309-37-1 diiron trioxide dioxide (A4)		
NIOSH-Ca (National Institute for Occupational Safety and Health):	None of the ingredients are listed		
Canadian Substance Listings:			
Canadian Domestic Substances List	None of the ingredients are listed		



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Canadian Ingredient Disclosure list (limit (0.1%)	None of the ingredients are listed
Canadian Ingredient Disclosure list (limit 1%)	All ingredients are listed
Other regulations, limitations and prohibitive regulations	This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations
Chemical Safety assessment:	A Chemical Safety Assessment has not been carried out

#### **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.

#### Abbreviation and Acronyms:

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstracts Service DOT Department of Transportation

IARC International Agency for Research on Cancer IMDG International Maritime Dangerous Goods MSHA Mine Safety and Health Administration NFPA National Fire Protection Association

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

SARA Superfund Amendment and Reauthorization Act

TLV Threshold Limit Valve
TSCA Toxic Substance Control Act

#### **Relevant Phrases:**

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

#### NOTICE:

This material safety data sheet complements the technical data sheets but does not replace them. The information it contains is based on our present knowledge of the product on the date indicated. It is given in good faith. Users should be warned about the risks associated with using the product for a different purpose than that for which it was developed, and particularly for uses for which we are not qualified to give advice.

These regulatory prescriptions are provided with a view to helping users meet their obligations when using this product. This list should not be considered exhaustive and does not exempt users from ensuring that they are not required to comply with any further prescriptions other than those mentioned above concerning product possession and handling for which they are solely responsible.