

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade name DISPAL 23N4-80 ALUMINA

Synonyms Water Dispersible (Pseudo) Boehmite Alumina, AL2O3 (x)H2O, Aluminum Oxide

Hvroxide. Alpha Alumina Monohydrate, Gamma-AlOOH [Crystallagraphic Designation]

Use Catalyst production, Industrial use, Inorganic Coating

Company Sasol Chemicals (USA) LLC

(an affiliate of Sasol Chemicals North America LLC)

Address 12120 Wickchester Lane, Houston, TX 77079

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 CHEMTREC World Wide
 (703) 527-3887

 Other Emergencies (24-hr)
 (337) 494 5142

 SDS and Product Information (8:00am-4:30pm CST)
 (281) 588 3491

 Health and Safety Information (7:30am-4:00pm CST)
 (281) 588 3492

E-mail address SasolElectronicSDS@us.sasol.com

SECTION 2 HAZARDS IDENTIFICATION

Not a hazardous substance or mixture according to OSHA HCS 2012.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent	
Boehmite	1318-23-6	93 - 97	
Water	7732-18-5	2.5 - 5	
Nitric Acid	7697-37-2	<2	

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

SECTION 4 FIRST AID MEASURES

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact Wash off with plenty of water. Take off all contaminated clothing immediately. If skin

irritation persists, call a physician. Wash contaminated clothing before re-use.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

In case of shortness of breath, give oxygen. Call a physician immediately.

Ingestion If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting

without medical advice. Never give anything by mouth to an unconscious person.

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SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion This is an inert material and will not produce a dust explosion.

Suitable The product is not flammable.

extinguishing media

Protective equipment In the event of fire, wear self-contained breathing apparatus.

and precautions for firefighters

Further information Keep containers and surroundings cool with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up Clean up promptly by scoop or vacuum. Dispose of only in accordance with local, state, and federal regulations.

SECTION 7 HANDLING AND STORAGE

Safe handling advice Normal measures for preventive fire protection. Ensure all equipment is electrically

grounded before beginning transfer operations.

Storage/Transport Ambient pressure

temperature

Load/Unload Ambient

Further information Avoid moisture. Alumina powder will adsorb atmospheric moisture. Do not store wet

on storage conditions product in aluminum containers due to corrosion and hydrogen generation.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines).

PERSONAL PROTECTIVE EQUIPMENT

Eyes Safety glasses with side-shields

Skin Wear suitable protective clothing, gloves and eye/face protection.

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Inhalation Respirator must be worn if exposed to dust. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES

Components Exposure limit(s)

Boehmite OSHA PEL (Permissible Exposure Limit) 15 mg/m3 Total dust

OSHA PEL (Permissible Exposure Limit) 5 mg/m3 Respirable dust

ACGIH TLV (8-hour) 10 mg/m3 Total dust ACGIH TLV (8-hour) 1 mg/m3 Respirable dust

The ACGIH TLV is for Aluminum metal and insoluble compounds.

Nitric Acid OSHA PEL (Permissible Exposure Limit) 2 ppm 5 mg/m3

ACGIH TLV (8-hour) 2 ppm

ACGIH STEL (Short Term Exposure Limit) 4 ppm

PEL= Permissible Exposure Limits TWA= Time Weighted Average (8 hr.) Threshold Limit Value Short Term Exposure Limit (15 min.) TLV= STEL= FI= **Excursion Limit** WEEL= Workplace Environmental Exposure Level

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance solid

Colour white

Form powder

Odour odourless

Odour Threshold No data available

> Flash point Not applicable

Flammability Upper explosion limit: Not applicable

Lower explosion limit: Not applicable

Boiling point/boiling Not applicable

range

Melting point/range Not applicable

> **Auto-ignition** temperature

Not applicable

Decomposition

No data available

temperature

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Flammability (solid, No data available

gas)

Vapour pressure Not applicable

Vapour density None.

Density 2.8 - 3.0 g/cm3

Relative density No data available

Water solubility dispersible

Viscosity Not applicable

pH No data available

Evaporation rate No data available

Partition coefficient: n- No data available

octanol/water

SECTION 10 STABILITY AND REACTIVITY

Reactivity Stable at normal ambient temperature and pressure.

Chemical stability No decomposition if stored and applied as directed.

Conditions to avoid None.

Hazardous In case of incomplete combustion an increased formation of oxides of nitrogen (NOx) is

None.

decomposition to be expected.

products

Materials to avoid None..

Hazardous

polymerisation

SECTION 11 TOXICOLOGICAL INFORMATION

Additional Remarks Information given is based on data obtained from similar substances.

Acute dermal toxicity LD50 Rabbit: > 2,000 mg/kg

Acute inhalation Rat (4 hours)

toxicity Inhalation of fine particles (6 - 8 microns in diameter) of alumina by rats for 4 hours

resulted in no signs of toxicity.

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Acute oral toxicity LD50 Rat: > 5,000 mg/kg

Skin Primary irritation (Rabbit): 0.0 (Max. score is 8.0.)

corrosion/irritation Human experience: Prolonged skin contact may cause skin irritation.

Serious eye Primary irritation (Rabbit): 7 (Max. score is 110.)

damage/eye irritation minimally irritating

Respiratory or skin No data available sensitisation

Germ cell mutagenicity Genotoxicity in vitro:

No data available

Genotoxicity in vivo: No data available

Assessment Mutagenicity:

No data available

Reproductive toxicity Reproductive toxicity:

No data available

Assessment Reproductive toxicity:

No data available

Teratogenicity: No data available

Assessment teratogenicity:

No data available

STOT - single No data exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity No data available

Carcinogenicity Assessment carcinogenicity:

Contains no ingredient listed as a carcinogen

SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity Product is an inorganic solid that is not bioavailable to aquatic biota and non-toxic.

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Toxicity to fish No data available

Toxicity to aquatic No data

invertebrates

No data available

Toxicity to algae No data available

Chronic toxicity to N

fish

No data available

Chronic toxicity to aquatic invertebrates

No data available

Biodegradation

The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative

potential

No data available

Mobility in soil No data available

Other adverse effects No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Code Any unused product or empty containers may be disposed of as non-hazardous in

accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. If the resulting material is determined to be hazardous, please dispose in accordance with state and

federal (40 CFR 262) hazardous waste regulations.

Disposal methods Dispose of only in accordance with local, state, and federal regulations.

Empty containers. Empty containers and original plastic liners may contain product residue. Handling of

empty containers and liners should be in a manner to minimize dust generation. Safe handling procedures as outlined in the SDS should be followed at all times. Consult the

appropriate official for information regarding disposal requirements.

SECTION 14 TRANSPORT INFORMATION

DOT not regulated

IATA not regulated

IMDG not regulated

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks No data available

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Inventory Listing

 Components
 CAS-No.

 Boehmite
 1318-23-6

 Water
 7732-18-5

 Nitric Acid
 7697-37-2

Boehmite modified with nitric acid where the nitric acid is adsorbed onto the Boehmite is not free. This product is treated as a mixture of Boehmite CAS 1318-23-6 and Nitric Acid CAS 7697-37-2

All chemical substances in this product are either on the TSCA Active Inventory, or in compliance with the inventory.

SARA 302 Status

<u>CAS-No.</u> <u>Weight percent</u>

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Classification

Should this product meet EPCRA 311/312 Tier reporting criteria of 40 CFR 370, refer to Section 2 of this SDS for appropriate classification and Section 3 for components that meet the hazardous classification.

SARA 313 Chemical

<u>Cas-No.</u> <u>Weight percent</u>

This material does not contain any chemical components with known CAS numbers that exceed the threshold

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components
noneReportable QuantityWeight percent

INTERNATIONAL REGULATIONS

WHMIS Classification

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

European Union

The product does not need to be labelled in accordance with EC directives or respective national laws.

Australia. Inventory of Chemical Substances (AICS)

Listed

Japan. Inventory of Existing and New Chemical Substances (ENCS)

Listed

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Listed

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Japan. ISHL - Inventory of Chemical Substances

Canada. Domestic Substances List (DSL) Inventory

Canada. Non-Domestic Substance Listing (NDSL)

Not listed

Philippines. Inventory of Chemicals / Chemical Substances (PICCS)

Listed

Korea. Existing Chemicals Inventory (KECI)

Listed

China. Inventory of Existing Chemical Substances (IECSC)

Listed

Mexico. National Inventory of Chemical Substances (INSQ)

Not listed

New Zealand. Inventory of Chemical Substances (NZIoC)

Listed

Switzerland. Inventory of Notified New Substances (CHINV)

Listed

Taiwan. National Existing Chemical Inventory (NECI)

Listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

STATE REGULATIONS

California Prop. 65
Components
none

CAS-No.

SECTION 16

OTHER INFORMATION

HAZARD RATINGS

			<u>Pnysical Hazard/</u>
	<u>Health</u>	<u>Flammability</u>	Instability
HMIS ®	1	0	0
NFPA	1	0	0

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SAFETY DATA SHEET



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