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SAFETY DATA SHEET according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

	Date of issue: 07/10/2014	Version 1.0
SECTION 1. Identification Product identifier		
Product number	AX0612	
Product name	Alumina 80-200 Mesh Chromatographic Grade Material must activated before use.	be
CAS-No.	1344-28-1	
Relevant identified uses of the	ne substance or mixture and uses advised against	
Identified uses	Reagent for analysis	
Details of the supplier of the	safety data sheet	
Company	EMD Millipore Corporation 290 Concord Road, Billerica, MA 0182 United States of America General Inquiries: +1-978-715-4321 Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)	1,
Emergency telephone	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week	
SECTION 2. Hazards identific	ation	
GHS-Labeling Precautionary Statements		

P260 Do not breathe dust.

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

OSHA Hazards

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This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS and may deviate from the GHS information.

Other hazards

None known.

SECTION 3. Composition/information on ingredients

•	•
Formula	Al₂O₃ (Hill)
Molar mass	101.96 g/mol

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Hazardous ingredients

Chemical Name (Concentration) CAS-No. *Aluminium oxide (<= 100 %)* 1344-28-1

Exact percentages are being withheld as a trade secret.

SECTION 4. First aid measures

Description of first-aid measures

Inhalation

After inhalation (large amounts of dusts): Fresh air. Consult doctor in the event of any complaints.

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing.

Eye contact

After eye contact: rinse out with plenty of water.

Ingestion

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Not combustible. Ambient fire may liberate hazardous vapors.

Advice for firefighters

Special protective equipment for fire-fighters In the event of fire, wear self-contained breathing apparatus.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

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Advice for emergency responders: Protective equipment see section 8.

Environmental precautions

No special precautionary measures necessary.

Methods and materials for containment and cleaning up

Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7. Handling and storage

Precautions for safe handling

Observe label precautions.

Conditions for safe storage, including any incompatibilities

Tightly closed. Dry.

Store at room temperature.

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Exposure limit(s)		•		
Basis	Value	Threshold limits	Remarks	
General thresh	old limit value for dust			
ACGIH	Time Weighted Average (TWA):	10 mg/m ³	Form of exposure:	Inhalable particles.
	Time Weighted Average (TWA):	3 mg/m³	Form of exposure:	Respirable particles.
Z1A	Time Weighted Average (TWA):	5 mg/m³	Form of exposure:	Respirable fraction.
	Time Weighted Average (TWA):	15 mg/m³	Form of exposure:	Total dust.
	Time Weighted Average (TWA):	50 millions of particles per cubic foot of air	Form of exposure:	Total dust.
	Time Weighted Average (TWA):	15 millions of particles per cubic foot of air	Form of exposure:	Respirable fraction.
	Time Weighted Average (TWA):	15 mg/m³	Form of exposure:	Total dust.
	Time Weighted Average (TWA):	5 mg/m³	Form of exposure:	Respirable fraction.
OSHA_TRANS	PEL:	5 mg/m³	Form of exposure:	Respirable fraction.
	PEL:	15 mg/m³	Form of exposure:	Total dust.
Aluminium oxia	1211 28 1			
ACGIH	Time Weighted Average (TWA):	1 mg/m³	Form of exposure:	Respirable fraction.
OSHA_TRANS	PEL:	15 mg/m³	Form of exposure:	Total dust.
	PEL:	5 mg/m³	Form of exposure:	Respirable fraction.
Z1A	Time Weighted Average (TWA):	10 mg/m³	Form of exposure:	Total dust.
	Time Weighted Average (TWA):	5 mg/m³	Form of exposure:	Respirable fraction.

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

Hygiene measures Change contaminated clothing. Wash hands after working with substance.

Eye/face protection Safety glasses

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Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Respiratory protection

required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9. Physical and chemical properties

solid
white
odorless
not applicable
No information available.
2,050 °C
5,396 °F (2,980 °C) at 1,013 hPa
not applicable
No information available.
No information available.
not applicable
not applicable
at 68 °F (20 °C) not applicable
No information available.
3.94 g/cm³ at 68 °F (20 °C)
No information available.
at 68 °F (20 °C) insoluble

Product number Product name	AX0612 Version 1.0 Alumina 80-200 Mesh Chromatographic Grade Material must be activated before use.
Partition coefficient: n- octanol/water	No information available.
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none
Ignition temperature	not applicable

SECTION 10. Stability and reactivity

Reactivity

See below

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

Possibility of hazardous reactions

Exothermic reaction with:

halogen-halogen compounds, Ethylene oxide, Fluorine, Hydrogen halides, vinyl acetate

Risk of explosion with:

nitrates, halogen oxides

Conditions to avoid

no information available

Incompatible materials

no information available

Hazardous decomposition products

no information available

SECTION 11. Toxicological information

Information on toxicological effects

Likely route of exposure Inhalation, Eye contact, Skin contact, Ingestion

Target Organs Eyes Skin Respiratory system

Product number	AX0612	Version 1.0
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Acute oral toxicity LD50 rat: > 5,000 mg/kg OECD Test Guideline 401

Symptoms: Only very slightly absorbable via the gastrointestinal tract.

Skin irritation rabbit Result: No irritation OECD Test Guideline 404

Eye irritation rabbit Result: No eye irritation OECD Test Guideline 405

Genotoxicity in vitro Ames test Bacillus subtilis Result: negative (IUCLID)

Specific target organ systemic toxicity - single exposure The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

Carcinogenicity

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed
	human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential
	carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a known or anticipated carcinogen
	by NTP.
ACGIH	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential
	carcinogen by ACGIH.

Further information

On the basis of the morphology of the product, no hazardous properties are to be expected when it is handled and used with appropriate care. Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ

functions.

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Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information

Ecotoxicity

No information available.

Persistence and degradability No information available.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Additional ecological information

No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14. Transport information

Land transport (DOT)

Not classified as dangerous in the meaning of transport regulations.

Air transport (IATA)

Not classified as dangerous in the meaning of transport regulations.

Sea transport (IMDG)

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. Regulatory information

United States of America

OSHA Hazards Target organ effects

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2.

SARA 311/312 Hazards

Chronic Health Hazard

SARA 313

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are subject to reporting levels es	tablished by SAR 1344-28-1	A Title III, Section 100 %	
this material are subject to the	reporting requiren	nents of SARA Title	
	Alumina 80-200 Mesh Chrom activated before use.	Alumina 80-200 Mesh Chromatographic Grade are subject to reporting levels established by SAR. 1344-28-1	Alumina 80-200 Mesh Chromatographic Grade Material must be activated before use.

DEA List I Not listed

DEA List II Not listed

US State Regulations

California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Notification status

TSCA:	All components of the product are listed in the TSCA-inventory.
DSL:	All components of this product are on the Canadian DSL.

SECTION 16. Other information

Training advice

Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Date of issue:07/10/2014

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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