



Safety Data Sheet

Revision Date: 2012/06/26
Version: 5.0

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1. Product and Company Identification

Product Name: Activated Alumina
DeVilbiss Part No.: 130506 and 130508
Chemical Name: Aluminum Oxide

Company
DeVilbiss Automotive Refinishing
11360 S. Airfield Rd.
Swanton, Ohio 43558, USA
Phone: 419-825-8100

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300

2. Hazards Identification

Emergency overview

CAUTION:
May be harmful if inhaled.
May cause difficulty breathing.
Inhalation of dust may result in respiratory irritation.
Prolonged and repeated exposure of dust may cause lung damage.
Contact with the eyes or skin may cause mechanical irritation.
Avoid inhalation of dusts.
Avoid contact with the skin, eyes and clothing.

State of matter: solid
Color: off-white
Odor: odorless

Potential health effects

Primary routes of exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Virtually nontoxic after a single ingestion.

Irritation / corrosion:

Inhalation of dust may cause respiratory tract irritation, coughing and breathing difficulties. Contact with the eyes or skin may cause mechanical irritation.

Chronic toxicity:

Repeated dose toxicity: Prolonged and repeated exposure of dust may cause lung damage. The product has not been tested. The statement has been derived from the properties of the individual components.

Potential environmental effects

Degradation / environmental fate:

Not applicable for inorganic substances.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
1344-28-1	94.0 - 100.0 %	Aluminum Oxide (NON-FIBROUS)

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air. If necessary, give oxygen. If not breathing, give artificial respiration. Seek medical attention if necessary.

If on skin:

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

If swallowed:

No hazards anticipated. If large quantities are ingested, seek medical advice.

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Flash point:	Non-flammable.
Autoignition:	not applicable
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Flammability:	does not ignite
Self-ignition temperature:	not self-igniting

Additional information:

Use extinguishing measures to suit surroundings.

Hazards during fire-fighting:

No particular hazards known.

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

Impact Sensitivity:

Remarks: Based on the chemical structure there is no shock-sensitivity.

6. Accidental release measures

Personal precautions:

Avoid dust formation. Avoid contact with the skin, eyes and clothing. Use personal protective clothing. Information regarding personal protective measures see, chapter 8.

Environmental precautions:

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Cleanup:

Vacuum up spilled product. Place into suitable container for disposal.

7. Handling and Storage

Handling

General advice:

Avoid dust formation in confined areas. Avoid contact with the skin, eyes and clothing. Ensure adequate ventilation.

Protection against fire and explosion:

Product is not explosive.

Storage

General advice:

Keep container tightly closed in a cool, well-ventilated place.

Storage incompatibility:

General advice: Segregate from reducing agents.

Storage stability:

Storage temperature: $\leq 35\text{ }^{\circ}\text{C}$
Keep container dry.

8. Exposure Controls and Personal Protection

Components with workplace control parameters

Aluminum oxide	OSHA	PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ;
	ACGIH	TWA value 1 mg/m3 Respirable fraction ;

Advice on system design:

Provide local exhaust ventilation to control dust. Provide local exhaust ventilation to maintain recommended P.E.L.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) particulate respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134). Wear appropriate certified respirator when exposure limits may be exceeded.

Hand protection:

Wear chemical resistant protective gloves., Consult with glove manufacturer for testing data.

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures:

No eating, drinking, smoking or tobacco use at the place of work.

9. Physical and Chemical Properties

Form:	The form is derived from the trade name.
Odor:	odorless
Color:	off-white
pH value:	9.4 - 10.1
Melting point:	2,050 °C
Vapour pressure:	not applicable
Bulk density:	38.0 - 52 lb/ft ³ (@68 °F)
Partitioning coefficient n-octanol/water (log Pow):	The value has not been determined because the substance is inorganic.
Viscosity, dynamic:	not applicable
Solubility in water:	insoluble

10. Stability and Reactivity

Conditions to avoid:

Avoid deposition of dust. Avoid dust formation.

Substances to avoid:

water, reducing agents

Hazardous reactions:

The product is chemically stable.
No hazardous reactions known.

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products known.

Thermal decomposition:

No decomposition if used correctly.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

not fire-propagating

11. Toxicological information

Acute toxicity

Oral:

Information on: Aluminum oxide
Type of value: LD50
Species: rat
Value: > 5,000 mg/kg (OECD Guideline 401)

Inhalation:

Information on: Aluminum oxide
Type of value: LC50
Species: rat
Value: > 2.3 mg/l (OECD Guideline 403)
Exposure time: 4 h
Tested as dust aerosol.

Repeated dose toxicity

Information on: Aluminum oxide

Assessment of repeated dose toxicity:

Repeated inhalative uptake of the substance did not cause substance-related effects.

Other Information:

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components. The product has been assessed on the basis of the components' available data. To some extent data gaps exist for individual components. According to our present knowledge and experience dangers which are not covered by the current labeling are not to be expected.

12. Ecological Information

Fish

Information on: Aluminum oxide

Acute:

Fish test acute semistatic

Pimephales promelas/LC50 (96 h): > 218.64 mg/l

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Tested above maximum solubility.

Information on: Aluminum oxide

Chronic:

semistatic Pimephales promelas 7 d 0.0938 mg/l

Aquatic invertebrates

Information on: Aluminum oxide

Acute:

OECD Guideline 202, part 1 static

Daphnia magna/No observed effect concentration (48 h): > 100 mg/l

Tested above maximum solubility. The details of the toxic effect relate to the nominal concentration.

Information on: Aluminum oxide

Chronic:

OECD Guideline 211 semistatic Daphnia magna (NOEC) 21 d 0.076 mg/l

The statement of the toxic effect relates to the analytically determined concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aquatic plants

Information on: Aluminum oxide

Toxicity to aquatic plants:

OECD Guideline 201 static

green algae/No observed effect concentration (72 h): > 100 mg/l

Tested above maximum solubility. The details of the toxic effect relate to the nominal concentration.

Other adverse effects:

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components. The product has been assessed on the basis of the components' available data. To some extent data gaps exist for individual components. According to our present knowledge and experience dangers which are not covered by the current labeling are not to be expected.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with local authority regulations. Check for possible recycling. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected. All waste materials should be reviewed to determine the applicable hazards (testing may be necessary).

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

OSHA hazard category: Acute target organ effects reported; ACGIH TLV established

EPCRA 311/312 (Hazard categories): Acute;

State regulations

State RTK

MA, NJ, PA

CAS Number

1344-28-1

Chemical name

Aluminum Oxide (NON-FIBROUS)

16. Other Information

Recommended use: Industrial catalyst

NFPA Hazard codes:

Health: 1 Fire: 0 Reactivity: 0 Special:

HMIS III rating

Health: 1 Flammability: 0 Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:

DeVilbiss Automotive Refinishing

MSDS Prepared on: 2012/06/26

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