

BASF F200 1/8″

1. Identification

Product identifier used on the label

F200 1/83

Recommended use of the chemical and restriction on use Recommended use*: Industrial catalyst

* The Recommended use identified for this product is provided solely to comply with a US Federal requirement and is not part of the seller s published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller s sales agreement.

Details of the supplier of the safety data sheet

Company: BASF CORPORATION 100 Park Avenue Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number CHEMTREC: 1-800-424-9300 BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification Chemical family: metal oxides

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR

Part 1910.1200 Classification of the product

No need for classification according to GHS criteria for this product.

Label elements

The product does not require a hazard warning label in accordance with GHS criteria.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR

Part 1910.1200

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.

3. Composition / Information on Ingredients

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR

Part 1910.1200

The product contains:

CAS NumberContent (W/W)Chemical name1344-28-1 94.0100.0 % Aluminum Oxide (NON-FIBROUS)

4. First-Aid Measures

Description of 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.

Most important symptoms and effects, both acute and delayed Symptoms: No significant reaction of the human body to the product known.

Indication of any immediate medical attention and special treatment needed Note to physician

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

5. Fire-Fighting Measures

Extinguishing media

Additional information: Use extinguishing measures to suit surroundings.

Special hazards arising from the substance or mixture Hazards during fire-fighting: No particular hazards known.

Advice for fire-fighters 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, protective equipment and emergency procedures

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

Methods and material for containment and cleaning up Vacuum up spilled product. Place into suitable container for disposal.

7. Handling and Storage

Precautions for safe handling

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.

Conditions for safe storage, including any incompatibilities

Segregate from reducing agents.

Suitable materials for containers: carbon steel (iron), Low density polyethylene (LDPE), High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place.

Storage stability: Storage temperature: <= 35 ℃ Keep container dry.

8. Exposure Controls/Personal Protection Components with occupational

exposure limits

Aluminum oxide OSHA PEL PEL 5 mg/m3 Respirable fraction ; PEL 15 mg/m3 Total dust ;

ACGIH TLV 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. odorless

Odor: Odorless

Odor threshold: Not Applicable

Color: Off-White

pH value: 9.4 10.1

Melting point: 2,050 ℃

Flash point: Non-flammable.

Flammability: Non-flammable.

Lower explosion limit: Not Applicable

Upper explosion limit: Not Applicable

Auto ignition: Not Applicable

Vapor pressure: Not Applicable

Bulk density: 38.0 52 lb/ft (68°F)

Vapor density: Not Applicable

Partitioning coefficient n- The value has not been determined

octanol/water (log Pow): because the substance is inorganic.

Self-ignition temperature: Not Self-Igniting

Thermal decomposition: No Decomposition If Used Correctly

Viscosity, dynamic: Not Applicable, the Product Is a Solid

Solubility in water: Insoluble

Molar mass: 101.96 g/mol

Evaporation rate: Not Applicable

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

Oxidizing properties: not fire-propagating Formation of Remarks: flammable gases:

Chemical stability The product is chemically stable.

Possibility of hazardous reactions The product is chemically stable. No hazardous reactions known.

Conditions to avoid Avoid deposition of dust. Avoid dust formation.

Incompatible materials water, reducing agents

Hazardous decomposition products Forms no flammable gases in the presence of water.

Decomposition products: Hazardous decomposition products: No hazardous decomposition products known.

Thermal decomposition: No decomposition if used correctly.

11. Toxicological information

Primary routes of exposure

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

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Virtually nontoxic after a single ingestion.

Information on: Aluminum oxide

Type of value: LD50

Species: rat

Value: > 10,000 mg/kg (similar to OECD guideline 401) The data refer to a preparation of the substance.

No mortality was observed. No systemic toxicity.

Inhalation

Information on: Aluminum oxide

Type of value: LC50

Species: rat

Value: > 2.3 mg/l (similar to OECD guideline 403) Exposure time: 4 h

Tested as dust aerosol.

No mortality was observed.

Irritation / corrosion

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

Chronic Toxicity/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.

Symptoms of Exposure

No significant reaction of the human body to the product known.

12. Ecological Information

Toxicity

Toxicity to fish

Information on: Aluminum oxide

LC50 (96 h) > 218.64 mg/l, Pimephales promelas (Fish test acute, semistatic) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. Tested above maximum solubility.

Aquatic invertebrates

Information on: Aluminum oxide No observed effect concentration (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

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

Aquatic plants

Information on: Aluminum oxide No observed effect concentration (72 h) > 100 mg/l (growth rate), Selenastrum capricornutum

(OECD Guideline 201, static) Tested above maximum solubility. The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to fish

Information on: Aluminum oxide EC10 (7 d) 0.0938 mg/l, Pimephales promelas (semistatic)

Chronic toxicity to aquatic invertebrates

Information on: Aluminum oxide

No observed effect concentration (21 d) 0.076 mg/l, Daphnia magna (OECD Guideline 211, semistatic)

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.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Not applicable for inorganic substances.

Additional information

Other ecotoxicological advice:

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

NFPA Hazard codes: Health : 1 Fire: 0 Reactivity: 0 Special:

HMIS III rating Health: 1 Flammability: 0 Physical hazard:0

Assessment of the hazard classes according to UN GHS criteria (most recent

version):

16. Other Information

SDS Prepared by:

BASF NA Product Regulations SDS Prepared on: 6/21/2015

We support worldwide Responsible Carefi 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.

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