

Safety Data Sheet

Catalyst PuriStar® R3-11G Tablets 5x3mm

Revision date : 2010/03/04

Version: 2.0

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(30055572/SDS_GEN_US/EN)

1. Product and Company Identification

Company

BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

2. Hazards Identification

Emergency overview

WARNING:

MAY BE HARMFUL IF SWALLOWED.

CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Prolonged or repeated contact may result in dermatitis.

INGESTION MAY CAUSE GASTRIC DISTURBANCES.

CONTAINS MATERIAL WHICH MAY CAUSE CANCER.

Use with local exhaust ventilation.

Wear a NIOSH-certified (or equivalent) particulate respirator.

Wear NIOSH-certified chemical goggles.

Wear chemical resistant protective gloves.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

State of matter: solid

Colour: green to black

Odour: odourless

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:

Of moderate toxicity after single ingestion.

Irritation / corrosion:

Irritating to eyes and skin.

Medical conditions aggravated by overexposure:

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See MSDS section 11 - Toxicological information.

Potential environmental effects

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Aquatic toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Degradation / environmental fate:

Not applicable for inorganic substances. The product has not been tested. The statement has been derived from the properties of the individual components.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
1317-38-0		copper oxide
1309-48-4		magnesium oxide
7782-42-5		graphite
14807-96-6		talc
1304-28-5		barium oxide

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

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

If swallowed:

Rinse mouth and then drink plenty of water. Induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

Note to physician

Treatment:

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

5. Fire-Fighting Measures

Flash point:

not applicable

Flammability:

does not ignite

Self-ignition temperature:

not self-igniting

Suitable extinguishing media:

water, dry extinguishing media, foam, carbon dioxide

foam, dry extinguishing media, carbon dioxide, water

Hazards during fire-fighting:

No particular hazards known.

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Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Avoid dust formation. Do not breathe dust. Avoid contact with the skin, eyes and clothing. Use personal protective clothing. Information regarding personal protective measures see, chapter 8.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Cleanup:

Spills should be contained, solidified, and placed in suitable containers for disposal.

7. Handling and Storage

Handling

General advice:

Avoid dust formation. Wear suitable protective clothing and eye/face protection. Processing machines must be fitted with local exhaust ventilation.

Protection against fire and explosion:

See MSDS section 5 - Fire fighting measures.

Storage

General advice:

Containers should be stored tightly sealed in a dry place.

Storage incompatibility:

General advice: Segregate from flammable substances.

8. Exposure Controls and Personal Protection

Advice on system design:

Provide local exhaust ventilation to control dust.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) particulate respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection:

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

Eye protection:

Tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

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General safety and hygiene measures:

Eye wash fountains and safety showers must be easily accessible. Avoid inhalation of dust. Wear protective clothing as necessary to minimize contact. Employees should shower at the end of the shift. Wash soiled clothing immediately.

9. Physical and Chemical Properties

Form:	tablets	
Odour:	odourless	
Colour:	green to black	
pH value:	approx. 8	
Melting point:		not applicable
Bulk density:	approx. 980 kg/m ³	
Solubility in water:		sparingly soluble

10. Stability and Reactivity

Conditions to avoid:

Avoid dust formation. Avoid extreme heat.

Substances to avoid:

acids

Hazardous reactions:

The product is chemically stable.

No hazardous reactions known.

Thermal decomposition:

No decomposition if correctly stored and handled.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

not fire-propagating

11. Toxicological information

Acute toxicity

Oral:

Type of value: LD50

Species: rat

Value: approx. 1,700 mg/kg (BASF-Test)

Dermal:

Type of value: LD50

Species: rat (male/female)

Value: > 2,000 mg/kg (Directive 92/69/EEC, B.3)

Irritation / corrosion

Skin:

Species: rabbit

Result: non-irritant

Method: Draize test

Eye:

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Species: rabbit
Result: Irritant.
Method: Draize test

12. Ecological Information

Other adverse effects:

The product has not been tested. The statement has been derived from the properties of the individual components.

13. Disposal considerations

Waste disposal of substance:

Dispose of in a licensed facility. Do not discharge substance/product into sewer system. Used catalysts may have different hazardous properties than the original products. Dispose of in accordance with national, state and local regulations.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport

USDOT

Hazard class: 9
Packing group: III
ID number: UN 3077
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains COPPEROXIDE)

Sea transport

IMDG

Hazard class: 9
Packing group: III
ID number: UN 3077
Hazard label: 9, EHSM
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains COPPEROXIDE)

Air transport

IATA/ICAO

Hazard class: 9
Packing group: III
ID number: UN 3077
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains COPPEROXIDE)

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15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

OSHA hazard category:

Chronic target organ effects reported; Skin and/or eye irritant; OSHA PEL established; ACGIH TLV established; Acute target organ effects reported; IARC 1, 2A or 2B carcinogen

EPCRA 311/312 (Hazard categories):

Acute; Chronic

State regulations

State RTK

NJ
MA, NJ, PA
MA, NJ, PA

CAS Number

1317-38-0
1309-48-4
14807-96-6

Chemical name

copper oxide
magnesium oxide
talc

16. Other Information

NFPA Hazard codes:

Health : 2 Fire: 0 Reactivity: 0 Special:

HMIS III rating

Health: 2⁺ 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.

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Local Contact Information

prod_reg@basf.com

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