

Safety data sheet

Trilon* M Powder

Revision date : 2008/12/08
Version: 2.2

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(30215074/MDS_GEN_US/EN)

1. Substance/preparation 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. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
164462-16-2	>= 82.0 - <= 84.0 %	Alanine, N,N-bis(carboxymethyl)-, trisodium salt
7732-18-5	>= 13.0 - <= 17.0 %	Water
1310-73-2	>= 0.2 - <= 2.0 %	Sodium Hydroxide

3. Hazard identification

Emergency overview

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
INGESTION MAY CAUSE GASTRIC DISTURBANCES.

Wear chemical resistant protective gloves.

Avoid inhalation of dusts.

Wear safety glasses with side-shields.

Avoid contact with the skin, eyes and clothing.

Wear NIOSH-certified chemical goggles.

Ensure adequate ventilation.

Eye wash fountains and safety showers must be easily accessible.

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.

4. First-aid measures

General advice:

Immediately remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

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If on skin:

Wash affected areas thoroughly with soap and water. Seek medical attention.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Note to physician

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

5. Fire-fighting measures

Flash point: not applicable

Suitable extinguishing media:

dry extinguishing media, foam

Unsuitable extinguishing media for safety reasons:

carbon dioxide

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Protective equipment for fire-fighting:

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

Further information:

Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

NFPA Hazard codes:

Health : 1 Fire: 1 Reactivity: 0 Special:

6. Accidental release measures

Personal precautions:

Avoid dust formation. Use personal protective clothing.

Environmental precautions:

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

Cleanup:

Avoid raising dust.

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of.

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7. Handling and storage

Handling

General advice:

Closed containers should only be opened in well-ventilated areas.

Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges.

Storage

General advice:

Keep container tightly closed and dry; store in a cool place.

8. Exposure controls and personal protection

Components with workplace control parameters

Sodium Hydroxide	OSHA	PEL 2 mg/m ³ ;
	ACGIH	CLV 2 mg/m ³ ;

Advice on system design:

Provide adequate exhaust ventilation to control work place concentrations.

Personal protective equipment

Respiratory protection:

Respiratory protection may not be required under normal operating conditions if adequate ventilation is provided.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles) and face shield.

Body protection:

Impermeable protective clothing

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin and eyes. Remove contaminated clothing. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form:	powder	
Odour:	faint odour	
Colour:	white	
pH value:	11.5 - 12.5	(10 g/l)
Solubility in water:	450.0 g/l	(15 °C)
Miscibility with water:		(15 °C) soluble

10. Stability and reactivity

Hazardous reactions:

The product may contain explosive fine dust or such dust may be produced by abrasion during transport or product transfer.

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Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

Acute toxicity

Oral:

LD50/rat: > 2,000 mg/kg

Dermal:

LD50/rat: > 2,000 mg/kg

Skin irritation:

rabbit: non-irritant

eye irritation :

rabbit: non-irritant

12. Ecological information

Environmental fate and transport

Biodegradation:

Test method:	OECD 301 A (new version)
Method of analysis:	DOC reduction
Degree of elimination:	> 70 % (28 d)
Test method:	OECD 301F; ISO 9408; 92/69/EEC, C.4-D
Method of analysis:	BOD of COD
Degree of elimination:	> 80 % (28 d)
Evaluation:	Readily biodegradable (according to OECD criteria). Readily biodegradable (according to OECD criteria).

Bioaccumulation:

No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

Environmental toxicity

Acute and prolonged toxicity to fish:

zebra fish/LC50 (96 h): > 100 mg/l

Acute toxicity to aquatic invertebrates:

Daphnia sp./EC50 (48 h): > 100 mg/l

Toxicity to microorganisms:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Chronic toxicity to aquatic invertebrates:

Daphnia sp. No observed effect concentration > 100 mg/l

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13. Disposal considerations

Waste disposal of substance:

Do not discharge into drains/surface waters/groundwater.

Dispose of in accordance with national, state and local regulations.

Container disposal:

Dispose of in accordance with national, state and local regulations. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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:

TSCA, US

released / listed

OSHA hazard category:

Not hazardous

SARA hazard categories (EPCRA 311/312): Not hazardous

SARA 313:

CAS Number

139-13-9

Chemical name

nitrilotriacetic acid

State regulations

State RTK

CAS Number

1310-73-2

Chemical name

Sodium Hydroxide

State RTK

MA, NJ, PA

16. Other information

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HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 0

HMIS uses 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 high hazard.

Local contact information

prod_reg@basf.com

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