

Safety data sheet

Myacide* S 30

Revision date : 2007/04/18
Version: 2.2

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(30063162/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

Synonyms: 2-BROMO-2-NITRO-1,3-PROPANEDIOL

2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
57-55-6	60.0 %	Propylene glycol
52-51-7	30.0 %	bronopol
7732-18-5	10.0 %	Water

3. Hazard identification

Emergency overview

DANGER: CORROSIVE LIQUID. RISK OF SERIOUS DAMAGE TO EYES.
May cause eye burns.
CAUSES SKIN IRRITATION.
HARMFUL IF SWALLOWED.
CAUSES RESPIRATORY TRACT IRRITATION.
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.
Wear chemical resistant protective gloves.
Wear NIOSH-certified chemical goggles.
Ensure adequate ventilation.
Avoid contact with the skin, eyes and clothing.
Eye wash fountains and safety showers must be easily accessible.
Wear protective clothing.

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.

Sensitization:

After continuous contact with the skin, sensitization cannot be excluded.

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4. First-aid measures

General advice:

Immediately remove contaminated clothing.

If inhaled:

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

If on skin:

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

If in eyes:

Seek medical attention. Wash affected eyes for at least 15 minutes under running water with eyelids held open.

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: 122 °C (Unspecified)

Suitable extinguishing media:

water, dry extinguishing media, foam

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:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

NFPA Hazard codes:

Health : 3 Fire: 1 Reactivity: 0 Special:

6. Accidental release measures

Personal precautions:

Use personal protective clothing.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

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Cleanup:

Place absorbed material in the same container as the spilled substance/product for disposal.

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

Further information:

High risk of slipping due to leakage/spillage of product.

7. Handling and storage

Handling

General advice:

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

Take precautionary measures against static discharges.

Storage

General advice:

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

Storage incompatibility:

General: Segregate from foods and animal feeds.

Temperature tolerance

Protect from temperatures below: 0 °C

The product can crystallize below the limit temperature.

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) organic vapour/particulate respirator.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles).

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.

9. Physical and chemical properties

Form:

liquid

Odour:

product specific

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Colour:	colourless to yellowish	
pH value:	<= 4.5	
Freezing point:	approx. 0 °C	(1,013 hPa)
Boiling point:	129.8 °C	(1,013 hPa)
Density:	approx. 1.19 g/cm3	(20 °C)
Partitioning coefficient n-octanol/water (log Pow):	0.18	
Miscibility with water:	completely (e.g. >=90%)	
Solubility (qualitative):	soluble solvent(s): polar solvents,	

10. Stability and reactivity

Conditions to avoid:

Temperature: > 90 degrees Celsius

Substances to avoid:

oxidizing agents
Sodium Hydroxide, bases
aluminium, metal

Hazardous reactions:

The product is chemically stable.

Decomposition products:

Hazardous decomposition products: hydrogen bromide, nitrogen oxides

Thermal decomposition:

Stable at ambient temperature.

90 °C

Possible thermal decomposition products:
nitrogen oxides (NO)_x, hydrogen bromide

> 140 °C

May decompose violently.

Corrosion to metals:

Corrosive effect on metals. Not corrosive to: Stainless steel

11. Toxicological information

Acute toxicity

Oral:

LD50/rat/male/female: 305 mg/kg (OECD Guideline 401)
The data refer to a diluted watery solution of the substance.

Inhalation:

LC50/rat/male/female: >= 0.588 mg/l

Dermal:

LD50/rat: 1,600 mg/kg

Skin irritation:

rabbit: Irritant. (OECD Guideline 404)

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Eye irritation :

rabbit: Risk of serious damage to eyes. (OECD Guideline 405)

Sensitization:

Open epicutaneous test (OET)/guinea pig: Non-sensitizing.

Chronic toxicity

Carcinogenicity:

In the majority of the short term assays the substance caused no carcinogenic effects.

Reproductive toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity/teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Other information:

The data on toxicology refer to the active ingredient.

12. Ecological information

Environmental fate and transport

Biodegradation:

Test method:	OECD 302B; ISO 9888; 88/302/EEC,part C
Method of analysis:	DOC reduction
Degree of elimination:	50 % (45 d)
Evaluation:	Moderately/partially biodegradable. The product can be degraded abiotically, e.g. chemical or photolytic processes.

Chemical oxygen demand (COD):

approx. 600 mg/g

Adsorbable organically-bound halogen (AOX):

The product contains according to the formulation, organically bound halogen. It can increase the AOX-value in the water purification plants overflow or if it reaches waters.

Environmental toxicity

Acute and prolonged toxicity to fish:

Rainbow trout/LC50 (96 h): 41.2 mg/l

Acute toxicity to aquatic invertebrates:

EC50 (48 h): 1.4 mg/l

Toxicity to aquatic plants:

EC50 (72 h): 0.4 - 2.8 mg/l

Toxicity to microorganisms:

> 50 mg/l

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

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Other ecotoxicological advice:

The ecological data given are those of the active ingredient.

13. Disposal considerations

Waste disposal of substance:

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

It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

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:	8
Packing group:	III
ID number:	UN 3265
Hazard label:	8
Proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains 2-BROM-2-NITROPROPANE-1,3-DIOL) CORROSIVE ON METALS

Sea transport

IMDG

Hazard class:	8
Packing group:	III
ID number:	UN 3265
Hazard label:	8
Marine pollutant:	YES
Proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. contains (2-BROM-2-NITROPROPANE-1,3-DIOL) CORROSIVE ON METALS

Air transport

IATA/ICAO

Hazard class:	8
Packing group:	III
ID number:	UN 3265
Hazard label:	8
Proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. contains (2-BROM-2-NITROPROPANE-1,3-DIOL) CORROSIVE ON METALS

15. Regulatory information

Federal Regulations

Registration status:

TSCA, US released / listed

OSHA hazard category:

Skin and/or eye irritant Acute target organ effects reported, Toxic - oral, Highly toxic - inhalation,

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SARA hazard categories (EPCRA 311/312): Acute

State regulations

State RTK

CAS Number

57-55-6

Chemical name

Propylene glycol

State RTK

PA

16. Other information

HMIS III rating

Health: 3

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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