

Safety data sheet

Myacide* GA 45

Revision date : 2006/02/07
Version: 1.0

Page: 1/7
(30174145/MDS_GEN_US/EN)

1. Substance/preparation and company identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932

24 Hour Emergency Response Information
CHEMTREC: (800) 424-9300
BASF HOTLINE: (800) 832-HELP

Molecular formula: CHO(CH₂)₃CHO
Molecular weight: 100 g/mol
Chemical family: dialdehydes
Synonyms: GLUTARALDEHYDE

2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
7732-18-5	55.0 %	Water
111-30-8	45.0 %	glutaral

3. Hazard identification

Emergency overview

DANGER: CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE.
CAUSES SKIN IRRITATION.
HARMFUL IF INHALED.
HARMFUL IF SWALLOWED.
HARMFUL IF ABSORBED THROUGH SKIN.
MAY CAUSE ALLERGIC SKIN REACTION.
CAUSES ASTHMATIC SIGNS AND SYMPTOMS IN HYPER-REACTIVE INDIVIDUALS.
Do not get in eyes, on skin, or on clothing.
Do not breathe vapours/mists.
Wear NIOSH-certified chemical goggles.
Wear a NIOSH-certified (or equivalent) acid gas/organic vapour respirator.
Wear chemical resistant protective gloves.
Wear protective clothing.
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.

Acute toxicity:

Ingestion may cause moderate to severe gastrointestinal irritation and ulceration including nausea and vomiting and pain. Inhalation of aerosols may cause respiratory tract irritation and pulmonary inflammation.

Medical conditions aggravated by overexposure:

Contact may aggravate pulmonary disorders.

Safety data sheet

Myacide* GA 45

Revision date : 2006/02/07
Version: 1.0

Page: 2/7
(30174145/MDS_GEN_US/EN)

See MSDS section 11 - Toxicological information.

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. Immediate medical attention required.

If on skin:

Wash affected areas thoroughly with soap and water. Immediate medical attention required.

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:

Do not induce vomiting. Rinse mouth and then drink plenty of water. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

5. Fire-fighting measures

Flash point: > 100 °C (DIN 51758)
Autoignition: 225 °C (DIN 51794)

Suitable extinguishing media:

water, carbon dioxide, dry extinguishing media, foam

Hazards during fire-fighting:

No particular hazards known.

Protective equipment for fire-fighting:

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

Further information:

Do not allow to enter drains or waterways. Approach with extreme caution.

NFPA Hazard codes:

Health : 3 Fire: 1 Reactivity: 0 Special:

6. Accidental release measures

Personal precautions:

Use breathing apparatus if exposed to vapours/dust/aerosol. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Take appropriate protective measures.

Environmental precautions:

Substance/product is RCRA hazardous due to its properties. Do not discharge into drains/surface waters/groundwater.

Safety data sheet

Myacide* GA 45

Revision date : 2006/02/07
Version: 1.0

Page: 3/7
(30174145/MDS_GEN_US/EN)

Cleanup:

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

For large amounts: Dispose of absorbed material in accordance with regulations. Pick up with suitable absorbent material.

Further information:

Pack in tightly closed containers for disposal. May release highly flammable and/or corrosive gases/vapours.

7. Handling and storage

Handling**General advice:**

Keep away from sources of ignition - No smoking. Keep container tightly sealed. Handle and open container with care.

Protection against fire and explosion:

Vapours may form ignitable mixture with air. Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme heat.

Storage**General advice:**

Keep container tightly closed. Keep away from sources of ignition - No smoking. Store protected against freezing.

Storage incompatibility:

General: Segregate from acids and bases. Segregate from strong oxidizing agents.

8. Exposure controls and personal protection

Components with workplace control parameters

glutaral

ACGIH CLV 0.05 ppm ;

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment**Respiratory protection:**

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. For emergency or non-routine, high exposure situations, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Safety data sheet

Myacide* GA 45

Revision date : 2006/02/07

Version: 1.0

Page: 4/7

(30174145/MDS_GEN_US/EN)

Body protection:

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

General safety and hygiene measures:

Eye wash fountains and safety showers must be easily accessible. Wear protective clothing as necessary to prevent contact. Avoid inhalation of vapours/mists. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form:	liquid	
Odour:	characteristic	
Colour:	yellow	
pH value:	approx. 3.7	
Freezing point:	approx. -20 °C	(1 ATM)
Boiling point:	> 100 °C	(1 ATM)
Relative density:	1.118	(20 °C)

10. Stability and reactivity

Substances to avoid:

acids, bases

Hazardous reactions:

The product is chemically stable.

Decomposition products:

Hazardous decomposition products:
carbon monoxide, carbon dioxide

Thermal decomposition:

No data available.

Corrosion to metals:

Corrosive effect on metals.

11. Toxicological information

Acute toxicity**Oral:**

LD50/rat: 320 mg/kg

Very toxic.

Inhalation:

LC50/rat: 0.28 - 0.39 mg/l / 4 h

Highly toxic.

Dermal:

LD50/rabbit: > 2,000 mg/kg

Slightly toxic.

Safety data sheet

Myacide* GA 45

Revision date : 2006/02/07

Version: 1.0

Page: 5/7

(30174145/MDS_GEN_US/EN)

Skin irritation:

rabbit: Corrosive. (Primary skin irritation test)

Eye irritation :

rabbit: Irritating.

As the product corrodes the skin, it can be expected to have a similar effect on the eyes also.

12. Ecological information

Toxicity to microorganisms:

bacteria (17 h): 8.8 mg/l

13. Disposal considerations

Waste disposal of substance:

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.

RCRA: D002

14. Transport information

Land transport*USDOT*

Proper shipping name:	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (contains GLUTARALDEHYDE)
Hazard class:	6.1
ID-number:	UN 2927
Packing group:	II

Sea transport*IMDG*

Proper shipping name:	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (contains GLUTARALDEHYDE)
Hazard class:	6.1
ID-number:	UN 2927
Packing group:	II
Marine pollutant:	NO

Safety data sheet

Myacide* GA 45

Revision date : 2006/02/07
Version: 1.0

Page: 6/7
(30174145/MDS_GEN_US/EN)

Air transport

IATA/ICAO

Proper shipping name: TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. contains (GLUTARALDEHYDE)
Hazard class: 6.1
ID-number: UN 2927
Packing group: II

15. Regulatory information

Federal Regulations

Registration status:
TSCA, US released / listed

OSHA hazard category: Acute target organ effects reported, Toxic - oral, Highly toxic - inhalation

SARA hazard categories (EPCRA 311/312): Acute

State regulations

State RTK

CAS Number
111-30-8

Chemical name
glutaral

State RTK
MA, NJ, PA

16. Other information

HMIS III rating

Health: 3 \square 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

Myacide is a registered trademark of BASF Corporation or BASF AG

Safety data sheet

Myacide* GA 45

Revision date : 2006/02/07

Version: 1.0

Page: 7/7

(30174145/MDS_GEN_US/EN)

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE , IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

END OF DATA SHEET