

Myacide® GA 25

SECTION 1. IDENTIFICATION

Product Identifier	Myacide® GA 25
Other Means of Identification	Glutaraldehyde
Product Family	Dialdehydes, aqueous solution
Recommended Use	Drilling Fluid Additive.
Supplier Identifier	Bri-Chem Supply Ltd., Bay 4, 5510 - 3rd Street SE, Calgary, Alberta, T2H 1J9, Bri-Chem Supply, 403-252-5904, www.brichemsupply.com
Emergency Phone No.	ChemTrec, (800) 424-9300, 24/7

SECTION 2. HAZARD IDENTIFICATION

Classification

Acute toxicity (Oral) - Category 4; Acute toxicity (Inhalation) - Category 4; Skin corrosion - Category 1B; Serious eye damage - Category 1; Respiratory sensitization - Category 1; Skin sensitization - Category 1A; Specific target organ toxicity (single exposure) - Category 3; Aquatic hazard (Acute) - Category 1; Aquatic hazard (Chronic) - Category 2

Label Elements



Signal Word:

Danger

Hazard Statement(s):

Toxic if inhaled.

Harmful if swallowed.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

Causes severe skin burns and eye damage.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dusts or mists.

Avoid release to the environment.

In case of inadequate ventilation wear respiratory protection.

Contaminated work clothing must not be allowed out of the workplace.

Do not eat, drink or smoke when using this product.

Wash hands and skin thoroughly after handling.

Response:

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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTRE or doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Take off contaminated clothing and wash it before reuse.

Collect spillage.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Glutaraldehyde solutions	111-30-8	>= 20 - < 50		
Methanol	67-56-1	>=0.0 - < 0.3		

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

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

Skin Contact

Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Seek medical attention. Consult a skin specialist.

Eye Contact

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

Ingestion

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.

First-aid Comments

Immediately remove contaminated clothing. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). First aid personnel should pay attention to their own safety.

Immediate Medical Attention and Special Treatment

Special Instructions

Treat according to symptoms (decontamination, vital functions), no known specific antidote, administer corticosteroid dose aerosol to prevent pulmonary edema.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water spray, dry powder, foam.

Specific Hazards Arising from the Product

Harmful vapours, evolution of fume/fog. The substances/groups of substances mentioned can be released in case of fire.

Special Protective Equipment and Precautions for Fire-fighters

Wear a self-contained breathing apparatus in confined areas or when exposed to combustion products.

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Firefighters must wear a full-body encapsulating chemical protective suit with positive-pressure self-contained breathing apparatus (SCBA).

Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

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

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

No special measures necessary provided product is used correctly.

Conditions for Safe Storage

Segregate from foods and animal feeds. Keep container tightly closed and in a cool place. Store protected against freezing.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol

OSHA PEL: 200 ppm 260 mg/m³

TWA: 200 ppm 260 mg/m³ The substance can be absorbed through the skin

STEL: 250 ppm 325 mg/m³

ACGIH TLV: STEL 250 ppm; TWA 200 ppm

Glutaral

OSHA PEL: CLV 0.2 ppm 0.8 mg/m³

ACGIH TLV: CLV 0.05 ppm

OSHA = US Occupational Safety and Health Administration.

PEL = Permissible Exposure Limits.

TWA = Time-Weighted Average.

STEL = Short-term Exposure Limit.

TLV® = Threshold Limit Value.

ACGIH® = American Conference of Governmental Industrial Hygienists.

CLV = Ceiling Limit Value.

Appropriate Engineering Controls

Provide local exhaust ventilation to control vapours/mists.

Individual Protection Measures

Eye/Face Protection

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

Skin Protection

Body protection must be chosen based on the level of activity and exposure.

Wear chemical resistant protective gloves.

Respiratory Protection

Respiratory protection in case of vapour/aerosol release. Breathing protection if breathable aerosols/dust are formed. Wear a NIOSH -certified (or equivalent) organic vapour/particulate respirator.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Yellow. Particle Size: Not available
Odour	Pungent
Odour Threshold	Not available
pH	5.9 (0.5% solution)
Melting Point/Freezing Point	~ -5 °C (freezing)
Initial Boiling Point/Range	> 100 °C
Flash Point	Not applicable
Evaporation Rate	Not available
Vapour Pressure	~ 17.5 mm Hg at 20 °C
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.06 at 20 °C
Solubility	Soluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	> 275 °C
Decomposition Temperature	Not available
Viscosity	Not available (kinematic)
Other Information	
Physical State	Liquid
Molecular Formula	CHO(CH ₂) ₃ CHO
Bulk Density	Not available
Surface Tension	Not available
Critical Temperature	Not available
Vapour Pressure at 50 deg C	Not available
Saturated Vapour Concentration	Not available
Other Physical Property 1	Molar mass: 100 g/mol

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Not applicable.

Incompatible Materials

Acids, bases, amines.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION

This product causes severe irritancy, is corrosive and toxic. Symptoms may not appear until several hours after exposure and are aggravated by exertion.

May cause chemical pneumonitis, pulmonary edema, staining, skin sensitization or other allergic reactions. Shock,

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coma and death may occur.

Acute Toxicity

Inhalation

Type of value: ATE

Value: 1.09 mg/l

Determined for mist

Oral

Type of value: ATE

Value: 301 mg/kg

Tested as a preparation

Glutaral

LD50 Oral Rat: 77 mg/kg

Methanol

LD50 Oral Rat: >1187 - 2769 mg/kg

Dermal

Type of value: ATE

Value: 3.790 mg/kg

Skin Corrosion/Irritation

CORROSIVE! Brief contact causes irritation pain. Burns (chemical) can occur if not promptly removed.

Toxic effects may be delayed. May cause staining.

Serious Eye Damage/Irritation

EXTREMELY CORROSIVE! May cause corneal scarring and clouding.

Glaucoma, cataracts and permanent blindness may occur.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

CORROSIVE! May cause severe irritation to the nose, throat and respiratory tract.

Airborne concentrations of mist or spray may cause damage to the lung tissue which could produce chemical pneumonia. Can cause injury to the entire respiratory tract.

Skin Absorption

Corrosive! Prolonged or widespread skin contact may result in the absorption of potentially harmful amounts of material and/or dermatitis.

Ingestion

This substance is TOXIC if swallowed! Corrosive! Swallowing may lead to ulceration and inflammation of the upper alimentary tract with hemorrhage and fluid loss.

This product causes severe burning and pain in the mouth, throat and abdomen; severe scarring of the throat may occur. Vomiting, diarrhea and perforation of the esophagus and stomach lining may occur.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Repeated and/or prolonged exposure may cause productive cough, running nose, bronchopneumonia, pulmonary edema (fluid build-up in lungs) and reduction of pulmonary function.

Respiratory and/or Skin Sensitization

The substance may cause sensitization of the respiratory tract.

Sensitization after skin contact possible.

Carcinogenicity

None of the components in this product at concentrations greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

Key to Abbreviations

IARC = International Agency for Research on Cancer.

NTP = National Toxicology Program.

OSHA = US Occupational Safety and Health Administration.

ACGIH® = American Conference of Governmental Industrial Hygienists.

Reproductive Toxicity

Development of Offspring

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

Other Information

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

SECTION 12. ECOLOGICAL INFORMATION

It is good practice to prevent releases into the environment.

Ecotoxicity

The details / statement of the toxic effects relate(s) to the nominal concentration.

Aquatic toxicity

Toxicity to fish

LC50 (96 h) 0.8 mg/l, *Salmo gairdneri* (Fish test acute, static)

LC50 (96 h) 6.2 mg/l *Cyprinodon variegatus* (Fish test acute, static)

Chronic toxicity to fish

No observed effect concentration (97 d) 1.6 mg/l, *Oncorhynchus mykiss* (flow through)

Aquatic invertebrates

EC50 (48 h) 2.1 mg/l, *Daphnia magna* (Daphnia test acute, static)

EC50 (96 h) 0.78 mg/l, *Crassostrea virginica* (other, flow through)

Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d) 5.0 mg/l, *Daphnia magna* (semistatic)

Aquatic plants

EC50 (72 h) 0.6 mg/l (growth rate), *Desmodesmus subspicatus* (static)

No observed effect concentration (72 h) 0.025 mg/l (growth rate) *Desmodesmus subspicatus*

EC50 (72 h) 0.92 mg/l (growth rate), *Skeletonema costatum*

Terrestrial toxicity

Soil living organisms

LC50 (14 d) 170 mg/kg, *Eisenia foetida* (artificial soil)

EC10 (28 d) 10.45 mg/kg, soil dwelling microorganisms (natural soil)

Toxicity to terrestrial plants

EC20 (19 d) > 441 mg/kg, *Vicia sativa*

Other terrestrial non-mammals

LD50 (14 d) 206 mg/kg, *Anas platyrhynchos*

Toxicity to microorganisms

EC20 (30 min) activated sludge, domestic: approx. 15 mg/l

Persistence and Degradability

Readily biodegradable.

Elimination information

90-100% DOC reduction (28 d) aerobic, activated sludge, domestic

Assessment of stability in water

In contact with water the substance will hydrolyze slowly.

Information on stability in water (hydrolysis)

$t_{1/2} > 1$ a (50°C)

Bioaccumulative Potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Mobility in Soil

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is possible.

Other Adverse Effects

Data refer to a diluted aqueous solution of the substance.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with federal, provincial and local government regulations. Dispose of or recycle empty

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containers through an approved waste management facility. Recommend crushing, puncturing or other means to prevent unauthorized use of containers.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	3265	Corrosive liquid, acidic, organic, N.O.S. (contains glutaraldehyde)	8	II

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification



Class D1B



Class D2B



Class E

D1B - Toxic; D2B - Toxic (Skin irritant; Eye irritant); E - Corrosive

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Registration status:

Biocide 28339: released / exempt

Chemical: released / exempt

SECTION 16. OTHER INFORMATION

NFPA Rating Health - 3 Flammability - 1 Instability - 0

SDS Prepared By Bri-Chem Supply Ltd

Phone No. (403) 252-5904

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Disclaimer

This Health and Safety information is correct to the best of our knowledge and belief at the date of its publication, but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as guidance for safe handling, storage, and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.

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