

SAFETY DATA SHEET

**Section 1: IDENTIFICATION**

**Product Identifier:** Myacide® GS 25  
**Recommended Use:** Drilling Fluid Additive, Preserving Agent and Disinfectant\*  
**Unsuitable for Use:** None known

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Other Means of Identification:**

**Manufacturer/Supplier:** Bri-Chem Supply Ltd.  
 27075 Acheson Road  
 Acheson, AB T7X 6B1  
**Phone Number:** 780-962-9490  
**Emergency Phone:** CHEMTREC 1-800-424-9300, 24/7

**Section 2: HAZARD(S) IDENTIFICATION**

**According to Hazardous Products Regulations (HPR) (SOR/2015-17)**

**Classification of the Product**

<b>Acute Tox.</b>	4 (Oral)	Acute Toxicity
<b>Acute Tox.</b>	4 (Inhalation – mist)	Acute Toxicity
<b>Skin Corr./Irrit.</b>	1B	Skin corrosion/irritation
<b>Eye Dam./Irrit.</b>	1	Serious eye damage/irritation
<b>Resp Sens.</b>	1	Respiratory sensitization
<b>Skin Sens.</b>	1A	Skin sensitization
<b>STOT SE</b>	3 (irritating to respiratory system)	Specific target organ toxicity – single exposure
<b>Aquatic Acute</b>	1	Hazardous to the aquatic environment – acute
<b>Aquatic Chronic</b>	2	Hazardous to the aquatic environment – chronic

**Label Elements**

**Pictogram:**



**Hazard Statement**

**H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

SAFETY DATA SHEET

H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H314	Causes severe skin burns and eye damage.
H302 + H332	Harmful if swallowed or inhaled.
H411	Toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

**Precautionary Statements (Prevention)**

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P260	Do not breathe dust/mist/vapours.
P273	Avoid release into the environment.
P284	In case of inadequate ventilation wear respiratory protection.
P272	Contaminated work clothing should not be allowed out of the workplace.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.

**Precautionary Statements (Response)**

P310	Immediately call a POISON CENTER or physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353	IF ON SKIN (or hair): Remove or take off immediately all contaminated clothing. Rinse skin with water or shower.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. DO NOT induce vomiting.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage

**Precautionary Statements (Storage)**

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up

**Precautionary Statements (Disposal)**

P501	Dispose of contents/container in accordance with local regulations.
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**Hazards Not Otherwise Classified:** If applicable information is provided in this section on other hazards which do not result in classification, but which may contribute to the overall hazards of the substance or mixture.

SAFETY DATA SHEET

**Labeling of Special Preparations (GHS):** Corrosive to the respiratory tract.

**Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

<b>Glutaral</b>	CAS Number: 111-30-8 Content (W/W): $\geq 20.0$ - $< 50.0\%$ Synonym: 1,5-Pentanedial; 1,5-Pentanedione, Glutaraldehyde, Glutaral
<b>Methanol</b>	CAS Number: 67-56-1 Content (W/W): $\geq 0.0$ - $< 0.3\%$ Synonym: Methanol; Methyl alcohol

**Section 4: FIRST-AID MEASURES**

**Description of First-Aid Procedures**

<b>General Advice:</b>	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.
<b>If Inhaled:</b>	Keep patient calm, remove to fresh air, seek medical attention.
<b>If on Skin:</b>	Remove contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Seek medical attention. Consult a skin specialist.
<b>If in Eyes:</b>	Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
<b>If Swallowed:</b>	Immediately rinse mouth and then drink 200 - 300 ml water, do not induce vomiting, seek medical attention.

**Most Important Symptoms and Effects, both Acute and Delayed**

<b>Symptoms:</b>	Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and /or effects are not known so far.
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**Information on Glutaral**

<b>Symptoms:</b>	Overexposure may cause:, corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps.
<b>Hazards:</b>	No applicable information available.

SAFETY DATA SHEET

**Indication of any Immediate Medical Attention and Special Treatment Needed**

**Note to Physician:** Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote, administer corticosteroid dose aerosol to prevent pulmonary odema.

**Section 5: FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:** Water spray, dry powder, foam.

**Special Hazards Arising from The Substance or Mixture**

**Hazards During Firefighting:** Harmful vapors, evolution of fumes/fog. The substances/groups of substances mentioned can be release in case of fire.

**Advice for Fire-Fighters:** Protective equipment for fire-fighting: Wear a self contained breathing apparatus in confined areas or when exposed to combustion.

**Further Information:** 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 personal protective clothing.

**Environmental Precautions:** Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/ground water.

**Methods and Material for Containment and Clean-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. Protection against fire and explosion: No special precautions necessary.

**Conditions for Safe Storage, Including any Incompatibilities:** Segregate from foods and animal feeds. Further information on storage conditions: Keep container tightly closed and in a cool place. Store protected against freezing.

**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

SAFETY DATA SHEET

**Components with Occupational Exposure Limits**

<b>Methanol</b>	ACGIH, US:	TWA value 200 ppm
	ACGIH, US:	STEL value 250 ppm
	OSHA Z1:	PEL 200 ppm 250 mg/m <sup>3</sup>
	ACGIH, US:	Skin Designation; Danger of cutaneous absorption
	ACGIH, US:	Skin Designation; Danger of cutaneous absorption
<b>Glutaral</b>	ACGIH, US:	CLV 0.05 ppm

**Advice on System Design:** Provide local exhaust ventilation to control vapours/mists.

**Personal Protective Equipment**

**Respiratory Protection:** Wear respiratory protection if ventilation is inadequate. Respiratory protection in case of vapour/aerosol release. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

**Hand Protection:** Wear chemical resistant protective gloves.

**Eye Protection:** Tightly fitting safety goggles (chemical goggles) and face shield.

**Body Protection:** Body protection must be chosen based on level of activity and exposure., Protective coverall and/or impermeable apron and boots as necessary.

**General Safety and Hygiene Measures:** Wearing of closed work clothing is required additionally to the stated personal protection equipment. 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.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form:</b>	Liquid
<b>Odour:</b>	Aldehyde-like
<b>Odour Threshold:</b>	Not determined
<b>Colour:</b>	Yellow
<b>pH Value:</b>	Not determined
<b>Freezing Point:</b>	Approx. -5°C (1 ATM)
<b>Melting Temperature:</b>	No applicable information available.
<b>Boiling Point:</b>	> 100°C (1 ATM)
<b>Sublimation Point:</b>	No applicable information available.
<b>Flash Point:</b>	Not applicable

SAFETY DATA SHEET

<b>Flammability:</b>	Not determined
<b>Lower Explosion Limit:</b>	No applicable information available.
<b>Upper Explosion Limit:</b>	No applicable information available.
<b>Autoignition:</b>	> 275°C
<b>Vapour Pressure:</b>	Approx 17.5 mmHg (20°C) The product has not been tested. The statement has been derived from the properties of the individual components.
<b>Density:</b>	1.06 g/cm <sup>3</sup> (20°C)
<b>Vapour Density:</b>	No applicable information available. Not determined.
<b>Partitioning coefficient n-octanol/water (low Pow):</b>	No applicable information available.
<b>Thermal Decomposition:</b>	No decomposition if correctly stored and handled.
<b>Viscosity, Dynamic:</b>	Not available
<b>Viscosity, Kinematic:</b>	No applicable information available.
<b>Solubility in Water:</b>	Soluble
<b>Solubility (Quantitative):</b>	No applicable information available.
<b>Solubility (Qualitative):</b>	No applicable information available.
<b>Evaporation Rate:</b>	Not determined
<b>Other Information:</b>	If necessary, information on other physical and chemical parameters is indicated in this section.

**Section 10: STABILITY AND REACTIVITY**

<b>Reactivity:</b>	No hazardous reactions if stored and handled as prescribed/indicated. Corrosion to Metals: No corrosive effect on metal. Oxidizing Properties: Not fire-propagating.
<b>Chemical Stability:</b>	The product is stable if stored and handled as prescribed/indicated.
<b>Possibility of Hazardous Reactions:</b>	The product is chemically stable.
<b>Conditions to Avoid:</b>	No conditions to avoid anticipated.
<b>Incompatible Materials:</b>	Acids, bases, amines.
<b>Hazardous Decomposition Products</b>	
<b>Decomposition Products:</b>	Carbon monoxide, carbon dioxide.
<b>Thermal Decomposition:</b>	No decomposition if correctly stored and handled.

SAFETY DATA SHEET

**Section 11: TOXICOLOGICAL INFORMATION**

**Primary Routes of Exposure:** Routes of entry for solids and liquids are ingestion and inhalation but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

**Acute Toxicity/Effects**

**Acute Toxicity:** Assessment of acute toxicity: Of moderate toxicity after single ingestion. Of moderate toxicity after short-term inhalation. Of low toxicity after short-term skin contact.

**Oral:** Type of Value: ATE  
Value: 301 mg/kg  
Tested as a preparation  
Information on: Glutaral  
Type of Value: LD50  
Species: Rat (Female)  
Value: Approx. 77 mg/kg (similar to OECD guideline 401)  
Methanol  
Type of Value: LD50  
Species: Rat  
Value: > 1187 – 2769 mg/kg (BASF-Test)

**Inhalation:** Type of Value: ATE  
Value: 1.09 mg/l  
Determined for mist  
Information on: glutaral  
Type of value: LC50  
Species: rat (male/female)  
Value: 0.28 - 0.39 mg/l (similar to OECD guideline 403)  
Exposure time: 4 h  
An aerosol was tested  
Species: Rat (male/female)  
Value: (IRT)  
Exposure time: 7 h  
Mortality within the stated exposition time as shown in animal studies. Determined for vapor.

**Dermal:** Type of value: ATE  
Value: 3,790 mg/kg

**Assessment Other Acute Effects:** Assessment of STOT single: Causes temporary irritation of the respiratory tract.

**Irritation/Corrosion:** Assessment of irritating effects: Corrosive! Damages skin and eyes.

SAFETY DATA SHEET

<b>Skin:</b>	Information on: glutaral Species: Rabbit Result: Corrosive. Method: Similar to OECD guideline 404
<b>Eye:</b>	Information on: glutaral Species: Rabbit Result: Risk of serious damage to eyes. Method: Draize test
<b>Sensitization:</b>	Assessment of sensitization: The substance may cause sensitization of the respiratory tract. Sensitization after skin contact possible.  Information on: glutaral Open epicutaneous test (OET) Species: Guinea pig Result: Sensitizing Species: Human Result: Sensitizing
<b>Aspiration Hazard:</b>	No aspiration hazard expected.
<b>Chronic Toxicity/Effects</b>	
<b>Repeated Dose Toxicity:</b>	Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.  Information on: glutaral Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. The substance may cause damage to the upper respiratory tract after repeated inhalation, as shown in animal studies.
<b>Genetic Toxicity:</b>	Assessment of mutagenicity: Based on available data, the classification criteria are not met.  Information on: glutaral Assessment of mutagenicity: The substance was mutagenic in various test systems with bacterias and cell cultures; however, these results could not be confirmed in tests with mammals.
<b>Carcinogenicity:</b>	Assessment of 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.
<b>Reproductive Toxicity:</b>	Assessment of reproduction toxicity: Based on available data, the classification criteria are not met.  Information on: glutaral Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.



SAFETY DATA SHEET

**Teratogenicity:** Assessment of teratogenicity: Based on available data, the classification criteria are not met.  
Information on: glutaral  
Assessment of teratogenicity: 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**

**Toxicity**

**Aquatic Toxicity:** Assessment of aquatic toxicity: The ecological data given are those of the active ingredient.

**Toxicity to Fish:** LC50 (96 h) 1.6 mg/l, *Salmo gairdneri*, syn. *O. mykiss* (Fish test acute, static)  
LC50 (96 h) 12.4 mg/l, *Cyprinodon variegatus* (Fish test acute, static)

**Aquatic Invertebrates:** EC50 (48 h) 4.2 mg/l, *Daphnia magna* (Daphnia test acute, static)  
EC50 (96 h) 1.56 mg/l, *Crassostrea virginica* (OPP 72-3 (EPA-Guideline), Flow through.)

**Aquatic Plants:** EC50 (72 h) 1.2 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)  
No observed effect concentration (72 h) 0.05 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)  
The statement of the toxic effect relates to the analytically determined concentration.  
EC50 (72 h) 1.84 mg/l (growth rate), *Skeletonema costatum* (ISO/DIS 10253, static)  
The details of the toxic effect relate to the nominal concentration.

**Chronic Toxicity to Fish:** No observed effect concentration (97 d) 3.2 mg/l, *Oncorhynchus mykiss* (Flow through.)

**Chronic Toxicity to Aquatic Invertebrates:** No observed effect concentration (21 d) 10.0 mg/l, *Daphnia magna* (OECD Guideline 211, semistatic)  
The details of the toxic effect relate to the nominal concentration.

**Aquatic Toxicity:** Information on: glutaral  
Assessment of aquatic toxicity:  
Very toxic (acute effect) to aquatic organisms. Toxic to aquatic organisms based on long-term(chronic) toxicity study data. Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible.

SAFETY DATA SHEET

**Toxicity to Fish:**

Information on: glutaral  
LC50 (96 h) 0.8 mg/l, *Salmo gairdneri*, syn. *O. mykiss* (Fish test acute, static)  
The details of the toxic effect relate to the nominal concentration.  
LC50 (96 h) 6.2 mg/l, *Cyprinodon variegatus* (Fish test acute, static)  
The details of the toxic effect relate to the nominal concentration.

**Aquatic Invertebrates:**

Information on: glutaral  
EC50 (48 h) 2.1 mg/l, *Daphnia magna* (Daphnia test acute, static)  
The details of the toxic effect relate to the nominal concentration.  
EC50 (96 h) 0.78 mg/l, *Crassostrea virginica* (OPP 72-3 (EPA-Guideline), Flow through.)  
The statement of the toxic effect relates to the analytically determined concentration.

**Aquatic Plants:**

Information on: glutaral  
EC50 (72 h) 0.6 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)  
The statement of the toxic effect relates to the analytically determined concentration.  
No observed effect concentration (72 h) 0.025 mg/l (growth rate), *Desmodesmus subspicatus* (OECD Guideline 201, static)  
The statement of the toxic effect relates to the analytically determined concentration.  
EC50 (72 h) 0.92 mg/l (growth rate), *Skeletonema costatum* (ISO/DIS 10253, static)  
The details of the toxic effect relate to the nominal concentration.

**Chronic Toxicity to Fish:**

Information on: glutaral  
No observed effect concentration (97 d) 1.6 mg/l, *Oncorhynchus mykiss* (Flow through.)  
The details of the toxic effect relate to the nominal concentration.

**Chronic Toxicity to Aquatic Invertebrates:**

Information on: glutaral  
No observed effect concentration (21 d) 5.0 mg/l, *Daphnia magna* (OECD Guideline 211, semistatic)

**Assessment of Terrestrial Toxicity:**

Toxic effects have been observed in studies with terrestrial plants. Toxic effects have been observed in studies with soil living organisms.

SAFETY DATA SHEET

<b>Soil Living Organisms:</b>	Toxicity to soil dwelling organisms: LC50 (14 d) > 500 mg/kg, Eisenia foetida (OECD Guideline 207, artificial soil) EC10 (28 d) 21.0 mg/kg, soil dwelling microorganisms (OECD 217, natural soil) The details of the toxic effect relate to the nominal concentration.
<b>Toxicity to Terrestrial Plants:</b>	EC20 (19 d) > 450 mg/kg, Vicia sativa (OECD Guideline 208)
<b>Soil Living Organisms:</b>	Information on: glutaral Toxicity to soil dwelling organisms: LC50 (14 d) 170 mg/kg, Eisenia foetida (OECD Guideline 207, artificial soil) The details of the toxic effect relate to the nominal concentration. EC10 (28 d) 10.45 mg/kg, soil dwelling microorganisms (OECD 217, natural soil) The details of the toxic effect relate to the nominal concentration.
<b>Toxicity to Terrestrial Plants:</b>	Information on: glutaral EC20 (19 d) 441 mg/kg, Vicia sativa (OECD Guideline 208)
<b>Microorganisms/Effect on Activated Sludge</b>	
<b>Toxicity to Microorganisms:</b>	OECD Guideline 209 aerobic activated sludge, domestic/EC20 (30 min): approx. 30 mg/l Information on: glutaral OECD Guideline 209 aerobic activated sludge, domestic/EC20 (30 min): approx. 15 mg/l The details of the toxic effect relate to the nominal concentration.
<b>Persistence and Degradability</b>	
<b>Assessment Biodegradation and Elimination (H<sub>2</sub>O)</b>	Information on: glutaral Readily biodegradable (according to OECD criteria).
<b>Elimination Information:</b>	Information on: glutaral 90 - 100 % DOC reduction (28 d) (OECD 301 A (new version)) (aerobic, activated sludge, domestic)
<b>Assessment of Stability in Water:</b>	Information on: glutaral In contact with water the substance will hydrolyse slowly.
<b>Bioaccumulative Potential:</b>	Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.
<b>Assessment Bioaccumulation Potential:</b>	Information on: glutaral No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

SAFETY DATA SHEET

**Mobility in Soil**

**Assessment Transport Between Environmental Compartments:**

Information on: glutaral  
The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is possible.

**Additional Information:**

Sum parameter  
Chemical oxygen demand (COD): 1,385 mg/g  
Biochemical oxygen demand (BOD) Incubation period 5 d: 235 mg/g  
Adsorbable organically-bound halogen(AOX):  
This product contains no organically-bound halogen.

**Other Exotoxicological Advice:**

Data refer to a diluted aqueous solution of the substance.

**Section 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal of Substance:**

Must be disposed of or incinerated in accordance with local regulations.

**Container Disposal:**

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

**Section 14: TRANSPORT INFORMATION**

**Land Transport**

**TDG**

**Hazard Class:**

8

**Packing Group:**

II

**ID Number:**

UN 3265

**Hazard Label:**

8, EHSM

**Proper Shipping Name:**

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains GLUTARALDEHYDE)

**Sea Transport**

**IMDG**

**Hazard Class:**

8

**Packing Group:**

II

**ID Number:**

UN 3265

**Hazard Label:**

8, EHSM

**Marine Pollutant:**

Yes

**Proper Shipping Name:**

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains GLUTARALDEHYDE)

SAFETY DATA SHEET

Air Transport

IATA/ICAO

Hazard Class: 8

Packing Group: II

ID Number: UN 3265

Hazard Label: 8

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains GLUTARALDEHYDE)

Section 15: REGULATORY INFORMATION

Federal Regulations

Regulation Status:	Biocide 28339	DSL, CA	Released/exempt
	Chemical	DSL, CA	Released/listed

NFPA Hazard Codes

Health: 3                      Fire: 1                      Reactivity: 0                      Special:

Section 16: OTHER INFORMATION

Disclaimer:

The information contained herein is based on data available to us and is believed to be true and accurate. However, no guarantee or warranty is provided, expressed or implied, by the company or its subsidiaries regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained from the use thereof. Since the use of this product is within the exclusive control of the user, we do not assume any responsibility and expressly disclaim any liability for any use of this product. It is the user's responsibility to determine the conditions of safe use, storage, and disposal of the product. Compliance with all applicable federal, provincial, and local regulations remains the responsibility of the user.

Prepared by: Bri-Chem Supply Ltd.

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