

TAS-5 SDS Safety Data Sheet
MSDS Sheet, Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: TAS-5

Recommended usage: Industrial Manufacturing and Fracturing Aid.

SUPPLIER

Company: Finoric LLC

Address: 8115 Loop 540, Beasley, Texas, 77417 USA

In case of emergency contact:

InfoTrac

US: 1-800-535-5053

International: 352-323-3500

Section 2 - Hazards Identification

**GHS, Globally Harmonized System Classification in accordance with 29 CFR 1910
Classification according to Regulation (EC) No 1272/2008**

Flammable liquids (Category 3) H227

Acute toxicity, oral Category 4 H302




Skin corrosion/irritation (Category 1A, B, C) H314

Acute toxicity, inhalation Category 4 H332

Specific target organ toxicity, single exposure Category 1 H370

Acute aquatic toxicity (Category 3) H402

Labeling according GHS USA & Regulation (EC) No 1272/2008

GHS Label Elements	GHS Label Elements	GHS Label Elements
		
Combustible Liquid	Corrosive	Health Hazard

Signal Words: Danger

Hazard statements:

H226: Flammable liquid and vapour.
H302 Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H332 Harmful if inhaled.
H370: Causes damage to organs
H402: Harmful to aquatic life.

Precautionary statements:

P210: Keep away from heat, sparks, open flames, hot surfaces. - No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical, ventilating, lighting equipment.
P242 - Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe mist, vapors, spray.
P264: Wash exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective clothing, protective gloves, eye protection, face protection.
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.
P314: Get Medical advice/attention if you feel unwell.
P337+ P313: If eye irritation persists: Get medical advice/ attention.
P360: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P363: Wash contaminated clothing before reuse.
P370+P378: In case of fire: Use carbon dioxide (CO₂), powder, alcohol-resistant foam for extinction.
P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.
P501: Dispose of contents/container to comply with local, state and federal regulations.

Classification according to EU Directives 67/548/EEC or 1999/45/EC:

C Corrosive
Xn Harmful
R10 Flammable.



R35 Causes severe burns.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R68 Possible risk of irreversible effects.

For the full text of the H-statements & R-phrases mentioned in this Section, see Section 16.

Section 3 - Composition/Information on Ingredients

Item Name	CAS Number	Percentage %
Acetic Acid	64-19-7	65 to 75.0%
Glycol Ether	111-76-2	5 to 15.0%
Non-Ionic Surfactant		5 to 10.0%
Proparagyl Alcohol	107-19-7	Less than 2.0%
Alcohol Ethoxylate	68439-46-3	Less than 2.0%
DDBSA	27176-87-0	Less than 2.0%

Section 4 - First Aid Measures

Always consult a physician after the first aid is given.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. Do NOT allow victim to rub or keep eyes closed.

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion: Do NOT induce vomiting. To prevent aspiration of swallowed product, lay victim on side. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Flammability: Flammable. Explosive in presence of oxidizing materials.

Flash Point: 40C 104F

Auto Ignition Temperature: 463C 865F

Extinguishing Media: Use DRY chemical powder, alcohol foam, water spray or fog. Cool containing vessels with



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water jet in order to prevent pressure build-up, auto-ignition or explosion. DO NOT use high volume water jet.
NFPA CODE Percevec: H-3, F-3, R-0

Section 6 - Accidental Release Measures

Spills/Leaks: Use proper personal protective equipment. Restrict unprotected personnel from the area. Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material. Avoid runoff into storm sewers and ditches which lead to waterways. Wash area with soap and water. Use water spray to disperse the gas/vapor. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. Cover with material such as dry soda ash or calcium carbonate and place into a closed container for disposal.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Do not allow contact with heat. Do not breathe vapors or spray mist.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from heat and flames.

Section 8 - Exposure Controls, Personal Protection

Airborne Exposure Limits:

Component Acetic Acid:

OSHA Permissible Exposure Limit (PEL): 10 ppm (TWA).

ACGIH Threshold Limit Value (TLV): 10 ppm (TWA); 15 ppm (STEL).

Component CocoAmide DEA:

ACGIH Threshold Limit Value (TLV): 1mg/m³ (TWA).

Component Proparagyl Alcohol:

ACGIH Threshold Limit Value (TLV): 1 ppm (TWA).

Component DDBSA Dodecylbenzenesulphonic acid:

ACGIH Threshold Limit Value (TLV): 200 ppm (TWA).

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient



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atmospheres.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Section 9 - Physical and Chemical Properties

Appearance: Clear yellowish liquid

Odor: Organic and vinegar like odor

Solubility: Soluble in water

Specific Gravity: 1.03

pH: Acidic

% Volatiles by volume @ 21C (70F): NA

Boiling Point: NA

Section 10 - Stability and Reactivity

Chemical Stability: It is stable under normal temperatures and pressures. It is hygroscopic.

Conditions to Avoid: Incompatible materials, dust generation, moisture, exposure to heat, spark, moist air or water.

Incompatibilities with Other Materials: Oxidizing agents, strong alkalis, acids and metals.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

Acute oral toxicity (LD50): NA

Acute dermal toxicity (LD50): NA.

Most components are not reported as a carcinogen. However CocoAmide DEA is Group 2B, Possible Carcinogen.

Section 12 - Ecological Information

Environmental Fate: The material will readily biodegrade.

Environmental Toxicity: Harmful to aquatic life. No further data available.

Section 13 - Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.



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State and local disposal regulations may differ from federal disposal regulations. Dispose of container of and unused contents in accordance with local requirements.

Section 14 - Transport Information

DOT (USA) & ADR/RID

UN number: 2789
Class: 8 (3)
Packing group: II
Proper shipping name: Contains acetic acid, solution

IMDG

UN number: 2789
Class: 8 (3)
Packing group: II
Proper shipping name: Contains acetic acid, solution

IATA

UN number: 2789
Class: 8 (3)
Packing group: II
Proper shipping name: Contains acetic acid, solution

Section 15 - Regulatory Information

USA FEDERAL:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

TSCA.

SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard

HMIS (Perceived): Health Hazard: 3; Fire Hazard: 3; Reactivity: 0; Personal Protection: E
National Fire Protection Association (Perceived): Health: 3; Flammability: 3; Reactivity: 0;

Canada

CAS# 64-19-7 is listed on Canada's DSL List.

It has a WHMIS classification of B3, E.

CAS# 64-19-7 is listed on Canada's Ingredient Disclosure List.

WHMIS (Canada): CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
CLASS E: Corrosive liquid.

Section 16 - Additional Information



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European Labeling in Accordance with EC Directives

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- H302 Harmful if swallowed.
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- C = Corrosive
- Xn Harmful
- R10 = Flammable.
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- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- R68 Possible risk of irreversible effects.

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Disclaimer:

The information and recommendations set forth herein are presented in good faith and believed correct as of the date the SDS was created. It is compiled from various sources and it is not necessarily all inclusive nor fully adequate in every circumstance. In addition, these suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements applicable. This SDS is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
