



Energy Services Group, Inc.

**Acid Pack 325 SDS, Safety Data Sheet MSDS
Sheet, Material Safety Data Sheet**

1. Product Identification

Product name/Synonyms: Acid Pack 325

Synonyms: None

CAS No.: Not Applicable.

Recommended uses and uses advised against (if any): Corrosion inhibition, iron control, and non-emulsifying properties. Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

SUPPLIER

Company: Energy Services Group

Address: 7755 Bellaire Drive South, Ft. Worth, Texas, 76132

In case of emergency contact:

Chemtrec: 1-800-424-9300

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

Acute toxicity, oral Category 3

Acute toxicity, dermal Category 3

Skin corrosion/irritation Category 1A, B, C

Acute toxicity, inhalation Category 3

Reproductive toxicity Category 2

Hazardous to the aquatic environment, long-term hazard Category 3

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

GHS Label Elements	GHS Label Elements	GHS Label Elements	GHS Label Elements
			
Toxic	Health Hazard	Corrosive	Flammable

Signal Words: Danger



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Hazard Statements:

H226: Flammable liquid and vapor.
H301: Toxic if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H331: Toxic if inhaled.
H361d: Suspected of damaging the unborn child.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/light/.../equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash contaminated parts thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P301+P310: IF SWALLOWED: Immediately call a POSION CENTER or doctor/physician.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P303+361+353: 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+351+338: IF IN EYES: Rinse cautiously with water for several minutes. P337+P313: If eye irritation persists get medical advice/attention. Remove contact lenses if present and easy to do – continue rinsing.
P370+378: In case of fire: Use Foam, Carbon dioxide, Other extinguishing agent suitable for Class B fires for extinction. For large fires, use water spray or fog, thoroughly drenching the burning material. Do not use high volume water jet.
P308+313: IF exposed or concerned: Get medical advice/attention.
P403+233: Store in a well-ventilated place. Keep container tightly closed.
P403+235: Store in a well-ventilated place. Keep cool.
P362: Take off contaminated clothing and wash before reuse.
P405: Store locked up.
P501: Dispose of contents/container in accordance with local/national regulation.

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

Hazard Symbols:

F Flammable



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T Toxic

C Corrosive

Xn Harmful

Risk Phrases:

R10 Flammable

R25 Toxic if swallowed

R35 Causes severe burns

R: 36/37/38, Risk Phrase: Irritating to eyes, respiratory system and skin

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R61 May cause harm to the unborn child

3. Composition/Information on Ingredients

Item Name	Percentage	CAS Number
Acetic Acid	10% to 50%	CAS#: 64-19-7
Alkyl Pyridine Quat	10% to 30%	CAS#: 68909-18-2
Other ingredients are to protect trade secret and are proprietary from 1 - 5% range.		
Water and Non-Haz material	QS.	

4. First Aid Measures

Always seek medical attention after first aid measures are provided.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Use a mild soap if available. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician: Symptomatic and supportive treatment is recommended.

5. Fire Fighting Measures

Flammability of the Product: Flammable.

Auto-Ignition Temperature: Not available.

Products of Combustion: Carbon oxide, nitrogen oxides and toxic fumes.

Fire Extinguishing Media: Use Foam, Carbon dioxide, Other extinguishing agent suitable for Class B fires for extinction. For large fires, use water spray or fog, thoroughly drenching the burning material. Do not use high volume water jet. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Extinguishing Media Not recommended: Avoid using solid water jet as it may scatter the fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved



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self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. At high temperatures under fire conditions, it may produce toxic or irritating fumes. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place.

Keep away from heat and sources of ignition. Flash back possible over considerable distance. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6. Accidental Release Measures

Personal precautions, protective equipment, environmental precautions and emergency procedures: Avoid breathing dust/fumes/gas/mist/vapors/spray. Use individual protective equipment (waterproof boots, suitable protective clothing, safety glasses, etc.). Restrict unprotected personnel from the area. Prevent any contact with hot surfaces. Do not approach facing the wind. Do not touch the spilled material. Keep away from drains, surface, groundwater, and soil.

Methods and materials used for containment cleanup procedures and Storage: Contain spilled material. Cover with an inert, non-combustible, inorganic absorbent material, sweep up, and remove to an approved disposal container.

Small Spill: Avoid dust/mist formation. Avoid breathing dust/mist. Ensure adequate ventilation. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: It is a poisonous material. Avoid touching the spilled material. Do not let the product enter drains. Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local and national regulations. Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Put the material into a convenient waste disposal container. Do not contaminate the environment. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Prevent material from entering sewers or waterways. If drains, streams, sewers become contaminated, notify local authority.

7. Handling and Storage

Precautions for safe handling: Apply according to good manufacturing and industrial hygiene practices with proper ventilation. Wash thoroughly after handling. Do not drink, eat, or smoke while handling. Avoid breathing dust/fumes/gas/mist/vapors/spray. Containers of this material may be hazardous when empty since they retain product residues.

Toxic! Do not ingest. Do not breathe dust/mist/vapors. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Wash hands thoroughly



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after handling. Provide appropriate exhaust ventilation. If you feel unwell, seek medical attention. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from fire, sparks, and heated surfaces. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities: Store in cool, dry, and ventilated area away from heat sources and protected from sunlight in tightly closed original container. Keep air contact to a minimum. Store protected from heat, sparks and ignition sources and incompatible materials. Do not store with incompatible materials like strong oxidizing agents (e.g., chlorine. Peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate).

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below.

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Acetic Acid	64-19-7	TWA	10 ppm	OSHA PEL

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

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 may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

Skin Protection: Wear protective gloves and clean body-covering clothing.

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.

Other Control Measures: Maintain good housekeeping in work area. Dust deposits on floors and other surfaces may pick up moisture and cause the surfaces to become slippery and present safety hazards. Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling.

9. Physical and Chemical Properties

Appearance: Dark Brown liquid.

Odor: Vinegar odor.

Odor threshold: Not available.

pH: <0 (Highly Acidic)

Relative density: about 1.062

Boiling Point: Not available.

Melting Point: Not available.

Flash Point: ≈ Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.



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Upper/lower flammability or explosive limits: Not available.

Vapor pressure: Not available.

Vapor density: Not available.

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Partition coefficient: n-octanol/water: Not available.

Solubility: Not available.

Viscosity: Not available.

10. Stability and Reactivity

Stability: It is stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: It emits toxic fumes when heated to decomposition. It may form oxides of carbon and nitrogen.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizing agents (e.g., chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate).

Conditions to Avoid: Incompatibles. Avoid extremes of temperature. Heat and sources of ignition including static discharges.

11. Toxicological Information

Eyes: Causes serious eye damage.

Skin: Toxic in contact with skin. Causes severe skin burns. Harmful if absorbed through skin.

Ingestion: Toxic if swallowed. Causes digestive tract burns. May cause blindness if swallowed.

Inhalation: Toxic if inhaled. Inhalation may cause central nervous system effects. May cause nose, throat, and lung irritation.

Chronic Exposure: May cause cancer. May damage the unborn child.

Toxicity data:

Acute oral toxicity: Not available for the product.

Acute inhalation toxicity: Not available for the product.

Teratogenicity: Suspected of damaging fertility. Suspected of damaging the unborn child.

Carcinogenicity: Not available for the mixture.

Toxicity data for the main ingredient Acetic Acid:

Acute oral toxicity (LD50): 16550 mg/kg (Rat).

Acute oral toxicity (LD50): 3310 mg/kg [Rat] for Glacial Acetic Acid.

Acute dermal toxicity (LD50): 1060 mg/kg [Rabbit] for Glacial Acetic Acid.

Acute toxicity of the vapor (LC50): 5620 1 hours [Mouse] for Glacial Acetic Acid.



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12. Ecological Information

Persistence and degradability: The organic portion of this preparation is expected to be readily biodegradable.

Toxicity to fish: Not available for the product.

Toxicity to daphnia and other aquatic invertebrates: Not available for the product.

Environmental Toxicity for Acetic Acid:

(LC50):

423 mg/l 24 hours [Fish (Goldfish)].

88 ppm 96 hours [Fish (fathead minnow)].

75 ppm 96 hours [Fish (bluegill sunfish)].

>100 ppm - 96 hours [Daphnia] for glacial acetic acid.

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

14. Transport Information

US DOT:

UN/ID No.: UN 2924,

Proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O .S.

Technical name(s): ACETIC ACID MIXTURE

Transport hazard class(es): 3(8); Packing group: II

Air Transport IATA:

UN/ID No.: UN 2924

Proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Technical name(s): ACETIC ACID MIXTURE

Transport hazard class(es): 3, 8; Packing group: II

Sea Transport IMDG/IMO:

UN/ID No.: UN 2924

Proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Technical name(s): ACETIC ACID MIXTURE

Transport hazard class(es): 3, 8; Packing group: II.



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15. Regulatory Information

SARA 311/312 Hazards: Acute & Chronic Health Hazard. Fire Hazard. See section 2.

Section 16 - Additional Information

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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 professionally 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.
