

# Material Safety Data Sheet (MSDS)



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(MSDS)**

Document No:  
AEM1002

**SECTION 1- Identification**

1.1 Product identifier Trade name: **AcidSense** Product code: - 1.2 Relevant identified uses of the substance or mixture and uses advised as Indicator solution for detecting acids. Uses advised against: Any use not specified above. 1.3 Details of the supplier of the safety data sheet Company: AbanEnergy

Telephone: +9821 92002736 ,E- mail (competent person): [O.anamzadeh@aban.energy](mailto:O.anamzadeh@aban.energy)

1.4 Emergency telephone number: <+989109540595>

**SECTION 2 - Hazard Identification**

**GHS Classification:**

- Flammable liquids – Category 2
- Eye irritation – Category 2
- STOT SE (single exposure) – Category 3 (narcotic effects)

**Signal Word:** DANGER

**Hazard Statements:**

- H225: Highly flammable liquid and vapor.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.

**Precautionary Statements (examples):**

- P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233: Keep container tightly closed.
- P240: Ground/bond container during transfer.
- P261: Avoid breathing vapors.
- P280: Wear protective gloves/eye protection.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and continue rinsing.
- **Pictograms:**





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### SECTION 3 - Composition / Information on Ingredients

This product is a mixture. Exact concentrations and identities are withheld as trade secret; ranges provided meet regulatory requirements.

### SECTION 4 - First Aid Measures

- **Inhalation:** Remove to fresh air. If symptoms persist, seek medical attention.
- **Skin contact:** Wash with soap and water. If irritation occurs, get medical advice.
- **Eye contact:** Rinse cautiously with water for 15 minutes. Remove contact lenses if present. Seek medical attention if irritation persists.
- **Ingestion:** Do not induce vomiting. Rinse mouth. Seek medical attention immediately.

### SECTION 5 - Firefighting Measures

- **Suitable extinguishing media:** Foam, dry chemical, CO<sub>2</sub>, water spray.
- **Hazards:** Highly flammable; vapors may form explosive mixtures with air.
- **Protective equipment:** Firefighters should wear SCBA and full protective clothing.

### SECTION 6 - Accidental Release Measures

- Eliminate ignition sources. Ensure adequate ventilation.
- Absorb with inert material (sand, vermiculite) and collect in suitable containers.
- Prevent entry into drains and waterways.

### SECTION 7 - Handling and Storage

- Handle in well-ventilated areas.
- Keep container tightly closed and grounded.



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- Store in a cool, dry, well-ventilated place away from heat and ignition sources.

### SECTION 8 - Exposure Controls / Personal Protection

#### Occupational Exposure Limits :

- ACGIH TLV: 200 ppm TWA, 400 ppm STEL

#### PPE:

- Eye/face: Safety goggles or face shield.
- Skin: Protective gloves (nitrile recommended).
- Respiratory: If ventilation is inadequate, use organic vapor respirator.

### SECTION 9 - Physical and Chemical Properties

- **Appearance:** Clear liquid, faint green tint
- **Odor:** Alcohol-like
- **pH:** ~neutral
- **Melting/freezing point:** ~-91 °C
- **Boiling point:** ~84 °C
- **Flash point:** 10 °C (closed cup)
- **Solubility:** Miscible with water

### SECTION 10 - Stability and Reactivity

- Stable under normal storage conditions.
- Avoid heat, sparks, and oxidizing agents.
- Hazardous decomposition: CO, CO<sub>2</sub> under fire conditions.



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**SECTION 11 - Toxicological Information**

- **Inhalation:** May cause headache, dizziness, drowsiness.
- **Skin:** Prolonged contact may cause mild irritation.
- **Eyes:** Causes irritation.
- **Ingestion:** Harmful if swallowed; may cause CNS depression.
- **Chronic effects:** No evidence at this dilution of carcinogenicity or reproductive toxicity.

**SECTION 12 - Ecological Information**

- readily biodegradable, low potential for bioaccumulation.
- indicator at this level not expected to be environmentally relevant.
- Avoid uncontrolled release to environment.

**SECTION 13 - Disposal Considerations**

- Dispose of contents and container in accordance with local regulations.
- Do not pour into drains.

**SECTION 14 - Transport Information**

- **UN Number:** Not regulated
- **Proper Shipping Name:** Not regulated
- **Hazard Class:** 3 – Flammable liquid
- **Packing Group:** II
- **Labels:** Flammable liquid
- **Special precautions:** Transport according to ADR/RID/IMDG/IATA regulations.



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**SECTION 15 - Regulatory Information**

- All components listed on TSCA, REACH, and EINECS.
- Subject to transport regulations for flammable liquids.

**SECTION 16 - Other Information**

Prepared by **AbanEnergy** — R&D / Safety

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This SDS is provided for guidance only and does not replace applicable regulations.