Biochemical Diagnostics, Inc.

SAFETY DATA SHEET (SDS)

Glacial Acetic Acid

01. Product and Company Identification

Product Identifier:

Trade Name: VMA-Skreen Glacial Acetic Acid
Chemical Name: Glacial Acetic Acid
Catalog Number: 35071253, 35071202
Part of Kits: 35070303, 35070001, 35070401
Use of chemical: Laboratory chemical

Identification of Manufacturer:

Manufacturer/Supplier: Biochemical Diagnostics, Inc.
180 Heartland Blvd., Edgewood, NY 11717
Phone: (631) 595-9200 | Fax: (631) 595-9204
Emergency telephone number: (800) 255-3924

02. Hazard(s) Identification

Classification of substance or mixture:

Skin corrosion (Category 1A), Serious eye damage (Category 1)
Skin severe skin burns and eye damage
Flammable liquids (Category 3)

Label elements:

Hazard pictograms

Corrosion Flammable

Signal word: Danger

Hazard statements:

H226 Flammable liquid and vapor
H314 Causes severe skin burns and eye damage.

***Precautionary statements*:**

P233 Keep container tightly closed.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection
P304+340 IF INHALED: Remove person to fresh air and keet comfortable for breathing
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

***Classification system*:**

NFPA ratings (scale 0 - 4)

Health = 3
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 3
Fire = 0
Reactivity = 0

03. Composition/information on ingredients

Chemical Characterization: Solvent	
CAS No. Description	**:** 64-19-7
Formula	**:** CH_3COOH
Molecular weight	**:** 60.05 g/mol

04. First aid measures

Description of first aid measures:

Inhalation: Remove to fresh air. Harmful if inhaled, may cause damage to respiratory passages and lungs. Consult a physician.

Ingestion: Rinse mouth with water. Seek medical attention.

Skin Contact: Contact cause severe burns. Remove contaminated clothing. Wash immediately with soap and water.

Eye Contact: Rinse with thoroughly with plenty of water for at least 15 minutes. Seek medical attention.

05. Firefighting measures

Extinguishing media: Water spray, dry chemical, alcohol-resistant foam, or carbon dioxide.

***Special Fire Fighting Procedures*:** Wear proper protective equipment w/Self contained breathing apparatus.

***Unusual Fire and Explosion Hazards*:** Contact with strong oxidizers may cause fire.

06. Accidental release measures

Personal precautions, protective equipment and emergency procedures:
Wear protective equipment. Avoid breathing vapors, mist or gas. Keep unprotected persons away. Remove all sources of ignition. Ensure adequate ventilation.

***Environmental precautions*:**
Prevent further leakage if safe to do. Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and remove.

***Waste Disposal Method*:**
Dispose in accordance with state, local and federal regulations

07. Handling and storage

Handling:

Precautions for safe handling: Avoid breathing vapors. Keep away from sources of ignition.

Conditions for safe storage, including any incompatibilities:

Requirements to be met by storerooms and receptacles: Store in a cool location.

Further information about storage conditions*:* Keep receptacle tightly sealed.
Store in well-ventilated, cool, dry conditions in well-sealed receptacles. Keep container upright to prevent leakage.

08. Exposure controls/ personal protection

Exposure Controls:

Control parameters:

Components with limit values that require monitoring at the workplace:

64-19-7 Acetic Acid

PEL Long-term value: 25 mg/m³, 10 ppm

REL Long-term value: 25 mg/m³, 10ppm

TLV Short-term value: 37 mg/m³, 15 ppm

Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Eye Protection:

Tightly sealed safety glasses or face shield.

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

Protection of Hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Dispose of gloves after use.

Respiratory Protection: Use approved fume hood. If the exposure limit is exceeded, use NIOSH approved and tested full-face respirator that is independent of circulating air.

Ventilation: Keep vapor levels as low as possible, use adequate general or local exhaust.

09. Physical and chemical properties

Appearance:

Form: Liquid

Color: Colorless

Odor: Pungent Odor

pH: 2.4 at 60.05 g/L

Melting Point: 16.2°C/ 61.2°F

Boiling Point: 117 - 118°C/ 243 - 244 °F

Flash Point: 40.0°C (104 °F)

Ignition temperature: 485.0°C/ 905.0 °F

Explosion limits: Lower: 19.9% (V)

Upper: 4% (v)

Vapor Pressure @ 20ºC: 11.4 mm Hg

Specific Gravity @ 20ºC (68ºF): 1.049 g/cm^3

Vapor Density: 2.07, Air=1

Percent Volatile: 100%

Evaporation Rate: 0.97

Flammable Limits in air % by volume: Lel: 5.4 %

Uel: 16.0 %

Solubility in/ Miscibility with Water@20ºC: soluble

10. Stability and reactivity

Stability: Stable

***Incompatibility*:** Avoid nitrates, aluminum or magnesium, strong oxidizers, amines, alkali metals, strong bases, or strong acids. Vinyl compounds, rubber, water, heat.

Conditions to Avoid: Heat, sparks, open flame. Exposure to sunlight.

Hazardous Polymerization: Will not occur

Hazardous Decomposition: Carbon oxides may form under fire conditions.

11. Toxicological information

***Acute toxicity*:**

LD/LC50 values that are relevant for classification: Acetic Acid

Oral LD50 3,310 mg/kg (rat)
Inhalation LC50 4 h - 11.4 mg/ml (rat)
Dermal LD50 1.06 L/kg (rabbit)

***Potential health effects*:**

On the skin: May be harmful if absorbed through skin. Contact causes skin burns.
On the eye: Causes eye burns.
Inhalation: May be harmful to the tissue of the mucus membranes and upper respiratory tract.
Ingestion: May be harmful if swallowed.

12. Ecological information

Toxicity:

semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 1,000 mg/l - 96 h
EC50 - Daphnia magna (Water flea) - > 300.82 mg/l - 48 h

Persistence and degradability: aerobic - Exposure time 30 d
Result: 99 % - Readily biodegradable Remarks: Expected to be biodegradable.
Biochemical Oxygen Demand (BOD) 880 mg/g

Bioaccumulative potential*:* No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Waste treatment methods

Product:

Dispose of in accordance with local, state and federal regulations.

Contaminated packaging:

Disposal must be made according to official regulations.

14. Transport Information

UN Number:
2789

UN proper shipping name:
Acetic Acid, glacial

Transport hazard class(es):
8 (3)

Packing group:
II

Environmental hazards:
None

Special precautions
None

15. Regulatory Information

SARA 302 Components:
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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

16. Other Information

Revision B, June 2015