

SDS# ATK-1, ATK-4
Date: January 2016

Total Pages: 6

Acid Test Kit

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Acid Test Kit
Catalog Number: ATK-1, ATK-4
Manufactured by: DiversiTech Corporation
6650 Sugarloaf Parkway
Duluth, GA, 30097
Information Phone No.: 1+678.542.3600
EMERGENCY Phone No.: 1 800.255.3924 Chem-Tel (Chemical Emergencies)
PREPARED BY: V. Leone

SECTION 2. HAZARDOUS IDENTIFICATION

GHS Classification:

Flammable Liquids Category 2
Acute Toxicity Oral Category 4
Acute Toxicity inhalation Category 4
Acute Toxicity Dermal Category 4
Skin Irritation Category 2
Eye Irritation Category 2A
Reproductive Toxicity Category 2
Aspiration Category 1
Specific Target Organ Toxicity- Single Exposure Category 2
Specific Target Organ Toxicity- Repeat Exposure Category 2

Label Elements:



Signal Word: Danger!

Hazard Statement(s)

H225 Highly flammable liquid and vapor
H302 Harmful if swallowed
H312 Harmful in contact with skin
H332 Harmful if inhaled
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H304 May be fatal if swallowed and enters airways
H361 Suspected of damaging fertility or the unborn child.
H371 May cause damage to organs, eyes, skin, respiratory system, central nervous system.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statement(s)

P102 Keep out of reach of children.
P103 Read label before use.
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, or hot surfaces. No smoking.
P233 Keep container tightly closed.
P241 Use explosion-proof electrical, ventilating, and lighting equipment.

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SECTION 2. HAZARDOUS IDENTIFICATION (cont.)

P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe vapors.
P264	Wash 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 rubber, nitrile or neoprene protective gloves and clothing, and safety goggles or face shield to protect eyes and face.
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse SKIN with water or shower.
P332+313	If skin irritation occurs: Get medical attention.
P362 + 364	Take off contaminated clothing and wash it before reuse.
P301+312	IF SWALLOWED: Call a poison control center or doctor if you feel unwell.
P330	Rinse mouth.
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a Poison Center or doctor if you feel unwell.
P305 + 351 + 338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + 313	If eye irritation persists: Get medical attention.
P308 + 313	IF exposed or concerned: Get medical advice.
P370+378	IN CASE OF FIRE: Use foam or Carbon dioxide extinguishing media to extinguish
P403+235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents to appropriate facility in accordance with Federal, State, and local regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	EINECS No.	% or Range	GHS Classification
Isopropanol	67-63-0	200-661-7	5-15*	H225: Highly flammable Liquid and vapor. Category 2 H319: Causes serious Eye irritation. Category 2A H336: May cause Drowsiness or dizziness Category 3
Toluene	108-88-3	203-625-9	45-55*	H225: Highly flammable Liquid and vapor. Category 2 H304: May be fatal if Swallowed and Enters airways Category 1 H315: Causes skin Irritation. Category 2 H336: May cause Drowsiness or dizziness Category 3 H361: Suspected to Damaging Fertility or The unborn child. Category 2
Methanol	67-56-1		40-45*	H225: Flam. Liq. Category 2 H301: Acute Tox. Category 2A H331: Toxic if inhaled Category 3 H370 Cause damage To organs.

*The exact percentage (concentration) of composition has been withheld as a trade secret.

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SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician, immediately. Wash clothing 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.

4.2. Signs and Symptoms of Exposure:

Inhalation: High vapor concentration may cause burning sensation in nose and throat and stinging and watering in the eyes. At concentrations which cause irritation, dizziness, faintness, drowsiness, nausea and vomiting may also occur.

Ingestion: May cause dizziness, faintness, drowsiness decreased awareness or responsiveness, nausea, vomiting, staggering gait, lack of coordination, blindness, coma and death.

Skin Contact: Prolonged or repeated contact may cause defatting and drying of the skin.

Eye Contact: May cause irritation including stinging, tearing, and redness.

Effects of Repeated Overexposure: Long term repeated oral exposure to ethanol may result in the development of progressive liver injury with fibrosis. Overexposure to methanol may cause eye damage and liver or kidney injury.

SECTION 5. FIREFIGHTING MEASURES

Suitable and Unsuitable Extinguishing Media:

Apply alcohol-type or all-purpose foam by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires.

Special Equipment and Precautions for Fire –Fighters:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode. Use water spray to cool fire-exposed containers and structures; Use water spray to disperse vapors - re-ignition is possible. Vapors may travel to source of ignition and flash back. Vapors may settle in low or confined spaces, or produce a floating fire hazard. Static ignition hazard can result from handling and use.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment and clothing during clean-up.

Methods and Material for Containment and Clean-Up: Small spills can be wiped or soaked up. Large spills: Eliminate all ignition sources; ground all equipment; do not walk through spill; stop spill if possible; prevent entry into sewers, confined spaces, etc.; use a vapor suppressing foam to reduce vapors; absorb spill with noncombustible matter and transfer to containers; use non-sparking tools to collect absorbed material. Refer to section 11 for disposal information.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling: Keep in a tightly closed container. Protect from physical damage. Keep this and all chemicals out of the reach of children. Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities: Flammable material - keep away from heat, sparks, and flame; sudden releases of hot organic vapors or mists from process equipment operating at elevated temperature may result in ignitions without the presence of obvious ignition sources. Observe all warnings and precautions listed for the product.

SECTION 8. EXPOSURE CONTROLS /PERSONAL PROTECTION

Airborne Exposure Limits:

Isopropanol (CAS# 67-63-0) 400 ppm TWA (OSHA) 980mg/m³ TWA (OSHA) 2000ppm IDLH (NIOSH)

Methanol (CAS# 67-63-0) 200 ppm TWA 260mg/m³

Toluene (CAS#188-88-3) 200ppm TWA (OSHA) 375 mg/m³ (NIOSH)

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SECTION 8. EXPOSURE CONTROLS /PERSONAL PROTECTION (cont.)

Appropriate Engineering Controls:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. 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):

Use in a well-ventilated area. If vapors are generated and exceed the TLV, use of air-purifying respirators and follow respiratory program meeting OSHA 910.134 and ANSI Z88.2 requirements.

Skin Protection: Wear rubber, neoprene, nitrile, Saranex® boots, gloves, lab coat, apron or coveralls, as necessary and appropriate, to prevent skin contact.

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

Work Hygienic Practices: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material, and before eating, smoking or using the bathroom.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Maroon/purplish liquid

Odor: alcohol-like

Odor Threshold: Not established

pH @ 25°C: Not available

Melting Point (Pour Point): Not available

Boiling Point: 82°C @ 760 mmHg

Flash Point: 12°C (54°F)

Evaporation Rate (Water = 1): 1.7 (n-butyl acetate=1)

Flammable Limits:

LEL: 2.0 °C

UEL: 12.7°C

Vapor pressure (mm Hg): 33 mm Hg @ 20°C

Vapor Density (Air = 1): 2.1

Specific gravity (H₂O = 1): 0.85

Solubility in water: Miscible

Octanol/Water Partition Coefficient: Not available

Autoignition Temperature: 399 °C (750° F)

Decomposition Temperature: Not available

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable under ordinary conditions of use and storage.

Possibility of Hazardous Reactions: Will not occur.

Conditions to Avoid: Extreme heat, incompatibles.

Incompatible Materials: Strong oxidizers and strong acids

Hazardous Decomposition Products: May evolve carbon monoxide, carbon dioxide if burned.

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Inhalation: High vapor concentration may cause burning sensation in nose and throat and stinging and watering in the eyes. At concentrations which cause irritation, dizziness, faintness, drowsiness, nausea and vomiting may also occur.

Ingestion: May cause dizziness, faintness, drowsiness decreased awareness or responsiveness, nausea, vomiting, staggering gait, lack of coordination, blindness, coma and death.

Skin Contact: Prolonged or repeated contact may cause defatting and drying of the skin

Eye Contact: May cause irritation including stinging, tearing, and redness.

Effects of Repeated Overexposure: Long term repeated oral exposure to ethanol may result in the development of progressive liver injury with fibrosis. Overexposure to methanol may cause eye damage and liver or kidney injury.

Carcinogenic effects: 2-Propanol -Not listed by ACGIH, IARC, or NTP.

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SECTION 11. TOXICOLOGICAL INFORMATION (cont.)

Teratogenicity/Reproductive toxicity: In an epidemiologic study of toluene and pregnancy, occupational exposures to toluene were said to be associated with an increased incidence of renal, urinary, gastrointestinal, and cardiac anomalies. Fetotoxicity (reduced fetal weight), behavioral effects (effects on learning and memory) and hearing loss (in males) were observed in the offspring of rats exposed by inhalation to toluene, in the absence of maternal toxicity.

Mutagenic effects: No information available.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Isopropanol: Fish: Fathead Minnow: >1000 ppm; 96h; LC50

Daphnia: >1000 ppm; 96h; LC50

Gold orfe: 8970-9280 ppm; 48h; LC50

Toluene: Bluegill LC50=17 mg/L/24H

Shrimp LC50=4.3 ppm/96H Fathead minnow LC50=36.2 mg/L/96H

Sunfish (fresh water) TLm=1180 mg/L/96H

Aquatic: IPA as a high biochemical oxygen demand and a potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a low potential to affect the germination of some plants, a high potential to biodegrade (low persistence) with unacclimated microorganisms from activated sludge.

Persistence and Degradability: biodegradable

Bioaccumulative Potential: No data available

Mobility in Soil: From soil, substance evaporates and is microbially biodegraded

Other Adverse Effects: None known

Other: For more information, see "[HANDBOOK OF ENVIRONMENTAL FATE AND EXPOSURE DATA.](#)"

SECTION 13. DISPOSAL CONSIDERATIONS

Vapors may collect in empty containers. Treat empty containers as hazardous.

Dispose of spill-clean up and other wastes in accordance with Federal, State, and local regulations

SECTION 14. TRANSPORTATION INFORMATION

US DOT: UN1993, Flammable liquid, N.O.S. (Contains methanol, isopropanol and toluene), 3, PGII

UN ID #: 1993

Proper Shipping Name: Flammable liquid, N.O.S. (Contains methanol, isopropanol and toluene),

Packing Group: II

UN Number: None

UN Proper Shipping Name: Flammable Liquid, N.O.S. (Contains methanol, isopropanol and toluene)

Transport Hazard Class(s): 3

Packing group: None

Environmental Hazards: Not a marine pollutant

ADR/RID Transport Information ADR/RID Class: 3

ADR/RID Packing Group: II

IMDG Hazard Class: 3

IMDG Packing Group: II

ADNR Class: 3

ADNR Item: UN1993

IATA Hazard Class: 3

ATA Packing Group: II

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

EmS: F-E / S-D

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SECTION 15. REGULATORY INFORMATION

US EPA

Comprehensive Environmental Response Compensation and Liability

Act of 1980 (CERCLA) requires notification of the National Response Center of release quantities of Hazardous Substances is not required for this material.

WHMIS:

This SDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR.

SECTION 16. OTHER INFORMATION

Revision Summary: All Sections: New GHS Format

SDS DATE REVISED: 01/05/2016

HMIS III Ratings:

HMIS III®

Health	1
Flamability	3
Physical Hazard	0
Personal Protection	B

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