Coburn Technologies, Inc.
55 Gerber Road East
South Windsor, CT 06074 USA

Phone: 800-262 8761
Fax: 860-648-6601

SAFETY DATA SHEET: ACETONE

1. IDENTIFICATION

CAS# **67-64-1**

IN AN EMERGENCY CALL: INFOTRAC 1-800-535-5053

2. HAZARD IDENTIFICATION

GHS Classification

Flammable Liquids	**Category 2**
Eye irritation	**Category 2A**
Specific target organ toxicity	**Category 3 (central nervous system)**

Signal Words ***DANGER***

Hazard Statements

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

GHS Precautionary Statements for Labeling

P210	**Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking.**
P233	**Keep container tightly closed.**
P261	**Avoid breathing dust/fumes/gas/mist/vapors/spray.**
P264	**Wash thoroughly after handling.**
P271	**Use only outdoors or in a well-ventilated area.**
P280	**Wear protective gloves/eye protection/face protection.**

3. COMPOSITION

	CAS NUMBER	%	TLV mg/m^3	LD_{50} *(mg/kg)* ORAL	LD_{50} (mg/kg) SKIN	LC_{50} mg/l INHALATION
Acetone	67-64-1	90-100	50	>5,000	>7,426	76.0

4. FIRST AID

SKIN: Wash with plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered. Seek medical help promptly if there is persistent itching or redness in the affected area.

EYES: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if irritation persists.

INHALATION: Remove from contaminated area promptly. **CAUTION: Rescuer must not endanger himself!** If victim's breathing stops, administer artificial respiration and seek medical aid promptly.

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INGESTION: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

5. FLAMMABILITY & FIRE-FIGHTING

Flash Point	-20°C (-4 °F)
Autoignition Temperature	540 °C
Combustion Products	No known
Firefighting Precautions	Alcohol-resistant foam, carbon dioxide (CO2), Dry chemical

Specific extinguishing methods Use a water spray to cool fully closed containers.

6. ACCIDENTAL RELEASE MEASURES

Leak Precaution	Dike to control spillage and prevent environmental contamination
Handling Spill	Ventilate contaminated area; recover free liquid with explosion-proof pumps, non-combustible absorbent material

7. HANDLING & STORAGE

This product is flammable. Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure-obtain instructions before use. Avoid contact with skin and eyes. See Section 8 for personal protection. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Avoid contact with skin and eyes.

Conditions for safe storage: No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations/working materials must comply with the technological safety standards.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

ACGIH TWA	500 ppm
ACGIH STEL	750 ppm
NIOSH REL	250 ppm/ 590 mg/m^3
OSHA Z-1 TWA	1,000ppm / 2,400mg/m^3
OSHA P0 STEL	1,000ppm / 2,400mg/m^3
OSHA P0 TWA	750ppm / 1,800mg/m^3

Personal Protective Equipment:

Respiratory protection	No personal respiratory protective equipment normally required. In the case of vapor formation use a respirator with an approved filter.
Hand protection	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	Eye wash bottle with pure water. Tightly fitting safety goggles. Safety glasses. Ensure that eyewash stations and safety showers are close to the workstation location.
Skin and body protection	Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place. Impervious clothing.
Protective measures	Wear suitable protective equipment. Avoid contact with skin. When using do not eat, drink or smoke.
Hygiene measures	Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor & Appearance	clear, colorless, liquid with a sweet, pungent odor
Odor Threshold	62ppm

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Vapor Pressure	231 mmHg @ 25°C / 77°F)
Evaporation Rate (*Butyl Acetate = 1*)	5.6-6.06
Vapor Density (air = 1)	2 @ 20 °C (68°F) AIR=1
Boiling Point	56°C / 133°F
Freezing Point	-94°C /-137°F
Specific Gravity	0.792 (water=1)
Water Solubility	complete
Viscosity	0.32 mPa.s @ 25 °C (77°F)
pH	5-7 @ 100%

10. REACTIVITY

Dangerously Reactive With	No dangerous reaction known under conditions of normal use.
Chemical Stability	Stable under normal conditions.
Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Conditions to avoid	Heat, flames and sparks. Extremes of temperature and direct sunlight.
Incompatible materials	Bases, oxidizing agents, reducing agents, acids, alkalis
Hazardous Decomposition products	Carbon dioxide, carbon monoxide, oxides of nitrogen, dense black smoke.

11. TOXICITY INFORMATION

i. *ACUTE EXPOSURE*

Acute oral toxicity	LD_{50} 5,800mg/kg (rat) symptoms: tremors
Acute inhalation toxicity	LC_{50} 76.0 mg/l (rat)
Acute dermal toxicity	LD_{50} >7,426 mg/kg

ii. *CHRONIC EXPOSURE*

Skin corrosion/irritation	Mild skin irritation (rabbit) Prolonged or repeated contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.
Serious eye damage/eye irritation	Eye irritation (rabbit) Irritating to eyes
Respiratory or skin sensitization	Does not cause skin sensitization (guinea pig)
Germ cell mutagenicity	Animal testing did not show mutagenic effects.
Carcinogenicity	Not classifiable as a human carcinogen
Reproductive toxicity	Did not show teratogenic effects in animal experiments.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:

LC_{50} (Fish, 48hr)	(Oncorhynchus mykiss), 6,100 mg/liter
EC_{50} (Crustacea, 48hr)	(Daphnia magna), 7,630 mg/l
EC_{50} (Algae, 96hr)	No data
IC_{50} (Bacteria, 3hr)	No data

Bioaccumulation	No data
Biodegradation	Readily biodegradable

13. DISPOSAL CONSIDERATIONS

Waste Disposal	Do not flush to sewer, do not contaminate ponds, waterways, or ditches with chemical or used container.
Containers	Containers should NOT be reused.

Warning: never cut, drill, weld or grind on or near this container, even if empty.

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14. TRANSPORT INFORMATION

USA 49 CFR

Product Identification Number	**UN – 1090**
Shipping Name	**Acetone**
Classification	**Class 3; Packing Group II**

15. REGULATIONS

OSHA Hazards **Flammable liquid, mild skin irritant, carcinogen**

EPCRA- Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity **Methanol 67-56-1 RQ 5000**

SARA 304 Extremely Hazardous Substances Reportable Quantity:
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 **Fire hazard, chronic health hazard**

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

SARA 313 **This material does not contain any chemical components with know CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.**

Clean Air Act
US Clean Air Act, Section 12 (40 CFR 61): Methanol 67-56-1 0.0061% Benzene 71-43-2 0.005%
US Clean Air Act, Section 112® for Accidental Release Prevention (40 CFR 68.130, Subpart F): not listed
US Clean Air Act, Section 111, SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Acetone	**67-64-1 100%**
Methanol	**67-56-1 0.0061%**
Benzene	**71-43-2 0.005%**

Clean Water Act
US Clean Water Act, Section 311, Table 116.4A: Benzene 71-43-2 0.005%
US Clean Water Act, Section 311, Table 117.3: Benzene 71-43-2 0.005%
US Clean Water Act, Section 307: Not listed

US State Regulations

Massachusetts Right-to-Know	**Acetone**	**67-64-1 100%**	**Benzene**	**71-43-2**	**0.005%**
Pennsylvania Right-to-Know	**Acetone**	**67-64-1 100%**			
New Jersey Right-to-Know	**Acetone**	**67-64-1 100%**			
California Prop 65	**Acetone**	**67-64-1**	**Benzene**	**71-43-2**	

Warning: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

US TSCA Inventory: Listed

16. OTHER INFORMATION

Date of Preparation **March 2015**
Date of Revision **-**
Prepared by Tracy Crow

PLEASE ENSURE THAT THIS SDS IS GIVEN TO, AND EXPLAINED TO PEOPLE USING THIS PRODUCT.

EMERGENCY INFORMATION: INFOTRAC 1-800-535-5053