

# ENG SCIENTIFIC, LLC

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New Brunswick, NJ, USA 08901

## SAFETY DATA SHEET (SDS)

### #1 - IDENTIFICATION

**Product Identifier – Acetone**

**Product Code – 9820 – 9824**

**Synonyms - Same**

**Recommended use - Professional, scientific and medical-technical activities**

**Recommended restrictions - None known**

**Manufacturer:**

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### #2 - Hazard(s) Identification

**Physical hazards** Flammable liquid Category 2

**Health hazard** Serious eye damage/irritation Category 2A

**Label elements**



**Signal word** Danger

**Hazard statement** Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life.

**Precautions** Keep away from heat/open flames/hot surfaces

**Storage** Store in well ventilated place at room temperature. Keep locked up.

**Supplemental info** Avoid release to the environment

**Disposal** Dispose of contents-according to local regulations

**NFPA Rating** - HEALTH: 2

- FLAMMABILITY: 3

- REACTIVITY: 0

### #3 – Composition

**Chemical name:** Acetone CAS # 67-64-1 100%

### #4 – First-aid measures

**Inhalation:** Remove to fresh air.

**Eye contact:** Remove contact lenses if worn. In case of contact, immediately flush eyes with plenty of clean running water for at least 15 minutes, lifting the upper and lower eyelids occasionally. Obtain medical attention.

**Skin contact:** Wash skin and clothing with soap and water. Irritating due to defatting action on skin. Prolonged action on skin causes redness, severe irritation or dermatitis.

**Swallowing:** If patient is fully conscious, give two glasses of water. Induce vomiting by experienced first aid personnel only. Swallowing small amounts is not likely to produce harmful effects. Ingestion of larger amounts may produce abdominal pain, nausea and vomiting.

## **#5 – Fire-fighting measures**

**Extinguishing media:** Use water fog, carbon dioxide, dry chemical, alcohol-type, or universal type foams applied by manufacturer's recommended technique. Protect personnel attempting to stop leak and disperse vapors.

**Special fire-fighting procedures:** Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire. Sealed containers may rupture when heated. This material may produce a floating fire hazard. Sensitive to static charge.

## **#6 – Accidental release measures**

**Steps to be taken in case material is released or spilled:** Extinguish all sources of ignition; ventilate the area; flood or flush the area with water. Prevent spilled acetone from entering sewers, confined spaces, drains, or waterways. Put material in suitable, covered, labeled containers. Flush area with water.

## **#7 – Handling and storage**

**Handling:** No smoking or open flame in storage, use or handling areas. Use explosion proof electrical equipment. Ensure proper grounding procedures are in place.

**Storage:** Store at room temperature and in a tightly closed container.

## **#8 – Exposure controls/personal protection**

**Respiratory protection:** NOISH - approved respirator.

**Ventilation:** General (mechanical) room ventilation recommended. Special local ventilation also recommended.

**Protective gloves:** Impermeable.

**Eye protection:** Chemical splash goggles or face shield.

**Other protective equipment:** Lab coat, eye bath, safety shower.

## **#9 – Physical and chemical properties**

**Appearance:** Clear, colorless volatile liquid.

**Odor:** Fragrant mint-like odor. **Boiling point:** 133°F

**Specific gravity:** (H<sub>2</sub>O = 1) 0.795 @ 20°C

**Vapor density:** (air = 1) 2      **Solubility in H<sub>2</sub>O** = Complete      **Freezing point:** -97.8°C      **Evaporation Rate** = >2

**Flash point:** 53°F, Tag Closed Cup ASTM D 56

## **#10 – Stability and reactivity**

**Stability:** Stable as supplied.

**Incompatibility:** Concentrated nitric or sulfuric acid, strong oxidizing agents. Chloroform, alkalis, chlorine compounds.

**Conditions to avoid:** Avoid contact with sparks, heat, open flame, or ignition sources.

**Hazardous polymerization:** Will not occur.

## **#11 - Toxicology information**

### **Route of Exposure - Inhalation**

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

### **Route of Exposure - Skin**

Repeated or prolonged contact causes drying, brittleness with cracking and irritation.

### **First Aid - Skin**

Remove contaminated clothing and wash contaminated skin with large amounts water. If irritation persists, contact a physician,

### **Route of Exposure - Eyes**

May cause eye injury which may persist for several days. Liquid and vapor in high concentrations, causes irritation, tearing and burning sensation.

### **First Aid - Eyes**

Vapors are irritating to eyes. Splashes may cause severe pain, drying and cracking of skin.

### **Route of Exposure - Ingestion**

Swallowing small amounts is not likely to produce harmful effects. Ingestion of larger amount may produce abdominal pain, nausea and vomiting.

### **Health Conditions Aggravated by Exposure**

Acetone exposure may aggravate existing eye and skin, disorders. Monitoring of air in the work place is recommended to maintain acetone vapors below recommended TLV.

## **#12 – Ecological information**

**DO NOT** discharge into sewer or waterways. Small spills should be flushed with large quantities of water. Large spills should be collected for disposal. Flush with water, controlled burning. Harmful to aquatic life with long lasting effects.

## **#13 – Disposal considerations**

Disposal of hazardous material may be subject to federal, state or local regulations. The information contained in this document is believed to be factual, however, nothing presented herein is to be taken as a warranty or representation for which ENG Scientific, LLC shall be responsible.

## **#14 – Transport information**

**PROPER SHIPPING NAME:** Acetone

**UN NUMBER:** 1190

**HAZARD CLASS:** 3

**PACKING GROUP:** II

**DOT SHIPPING LABEL:** Flammable Liquid



*N/A for Limited Quantity*

## **#15 – Regulatory information**

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, SUBPT. D)** Not regulated

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not on regulatory list

**CERCLA Hazardous Substance List (40 CFR 302.4)** Acetone (CAS 67-64-1)

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Immediate Hazard – Yes

Delayed Hazard – No

Fire Hazard – Yes

Pressure Hazard – No

Reactivity Hazard – No

**SARA 302 Extremely hazardous substance** Not listed

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:** Not regulated

**Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130):** Not regulated

**Clean Water Act (CWA) Section 112® (40 CFR 68.130):** Not regulated

**Safe Drinking Water Act (SDWA):** Not regulated

**Drug Enforcement Administration (DEA) List 2 Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and**

**Chemical Code Number:** Acetone (CAS 67-64-1) 6532

**Drug Enforcement Administration (DEA) List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c):**

Acetone (CAS 67-64-1) 6532

**DEA Exempt Chemical Mixtures Code Number:** Acetone (CAS 67-64-1) 6532

**Food and Drug Administration (FDA):** N/A

**US state regulation:** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

This material is not known to contain and chemicals currently listed as carcinogens or reproductive toxins.

**US. Massachusetts RTK – Substance List:** Acetone (CAS 64-17-5)

**US. New Jersey Worker and Community Right-to-Know Act:** Acetone (CAS 67-64-1)

**US. Pennsylvania RTK – Hazardous Substances:** Acetone (CAS 67-64-1)

**US. Rhode Island RTK:** Acetone (CAS 67-64-1)

**US California Proposition 65:**

**US-California Proposition 65 – Carcinogens and Reproductive Toxicity (CRT):** Not listed.

**International Inventories**

<b>Country/Region</b>	<b>Inventory name</b>	<b>On Inventory*</b>
Canada	Non-domestic Substances List (NDSL)	No
Europe	European Inventory of Existing Chemical Substances (EINECS)	Yes
U.S.	Toxic Substances Control Act (TSCA) Inventory	Yes
Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*\* Yes complies with the inventory requirements administered by the governing country.*

**#16 – Other information**

**Issue date** January 31, 2022

**Version #** 04

**Further information** The information contained in this document is believed to be factual, however, nothing presented herein is to be taken as a warranty or representation for which ENG Scientific, LLC shall be responsible.