



**Northwest Scientific, Inc.**

## SAFETY DATA SHEET

### ACETONE

**Date Issued:** 3/25/2005  
**MSDS No:** A  
**Date-Revised:** 12/7/2012  
**Revision No:** 5

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ACETONE

**CHEMICAL FAMILY:** Ketones

**ALTERNATE TRADE NAME(S):** 2-Propanone, Westech Acetone

**MANUFACTURER**

Distributed by Tarr Acquisition, LLC  
4115 W. Turney Ave.  
Phoenix, AZ 85019  
**Service Number:** 602-233-2000

**24 HR. EMERGENCY TELEPHONE NUMBERS**

**CHEMTREC (US Transportation) :**(800) 424 - 9300  
**CANUTEC (Canadian Transportation) :**(613) 996 - 6666

#### 2. HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** DANGER! Flammable liquid and vapor. May cause eye, skin and respiratory tract irritation. May cause asphyxiation, or brain, lung or other organ injury if inhaled, swallowed or absorbed by the skin.

##### POTENTIAL HEALTH EFFECTS

**EYES:** Liquid is severely irritating to the eyes. High vapor concentrations are also irritating.

**SKIN:** Liquid is mildly irritating to the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**INGESTION:** Ingestion may cause headache, dizziness, fatigue, and central nervous system depression.

**INHALATION:** Vapors may be irritating to the nose, throat, and respiratory tract. Exposure to high vapor concentrations may cause central nervous system (CNS) depression.

##### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**ACUTE TOXICITY:** Irritation as noted above. Early to moderate CNS depression may be evidenced by giddiness, headache, dizziness, and nausea; in extreme cases, unconsciousness and death may occur. Aspiration pneumonitis may be evidenced by coughing, labored breathing and cyanosis (bluish skin). Liver damage may be evidenced by loss of appetite, jaundice and sometimes pain in the upper abdomen on the right side.

**MEDICAL CONDITIONS AGGRAVATED:** Pre-existing eye and skin disorders may be aggravated by exposure.

## ACETONE

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt. %	CAS
Acetone	99 - 100	67-64-1

**4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention, if irritation occurs or persists.

**SKIN:** Flush skin with water while removing contaminated clothing. If irritation occurs, get medical attention. Do not reuse clothing or shoes until cleaned.

**INGESTION:** Do not give liquids if victim is unconscious or drowsy. Otherwise, give 2 glasses of water and induce vomiting by giving 30cc syrup of ipecac (or touching finger to the back of victim's throat). Keep victim's head below hips while vomiting. Call doctor.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Seek immediate medical attention.

**NOTES TO PHYSICIAN:** If victim is a child, give no more than 1 glass of water and 15cc (1 tablespoon) syrup of ipecac. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

**5. FIRE FIGHTING MEASURES**

**FLASHPOINT AND METHOD:** ~ -18°C (1°F) IP 170

**FLAMMABLE LIMITS:** 0.026 to 0.128

**AUTOIGNITION TEMPERATURE:** No data available.

**EXTINGUISHING MEDIA:** Use water fog, "alcohol" foam, dry chemical, or CO<sub>2</sub>.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide and unidentified organic compounds may be formed during combustion.

**EXPLOSION HAZARDS:** When heated above the flash point, this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

**FIRE FIGHTING PROCEDURES:** WARNING! Flammable Liquid. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear, including a positive pressure NIOSH approved SCBA. Cool fire exposed containers with water.

**6. ACCIDENTAL RELEASE MEASURES****ENVIRONMENTAL PRECAUTIONS**

**WATER SPILL:** Keep material out of storm sewers and ditches which lead to waterways.

**GENERAL PROCEDURES:** WARNING. Flammable. Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

**7. HANDLING AND STORAGE**

**ACETONE**

**GENERAL PROCEDURES:** Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

**COMMENTS:** KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition; they may explode and cause injury or death.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Acetone	TWA	1000	2400	500	
	STEL			750	

**ENGINEERING CONTROLS:** Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

**SKIN:** Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**RESPIRATORY:** If exposure may or does exceed occupational exposure limits (Sec. 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

**WORK HYGIENIC PRACTICES:** Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**COMMENTS:** May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Pungent odor.

**COLOR:** Clear, colorless liquid.

**pH:** NA = Not Applicable

**ACETONE****PERCENT VOLATILE:** 100**VAPOR PRESSURE:** No data available.**VAPOR DENSITY:** No data available.**BOILING POINT:** (133°F)**FREEZING POINT:** (-140°F)**MELTING POINT:** No data available.**FLASHPOINT AND METHOD:** ~ -18°C (1°F) IP 170**SOLUBILITY IN WATER:** Complete in water**EVAPORATION RATE:** Faster than Butyl Acetate.**DENSITY:** 6.59 at 20°C**SPECIFIC GRAVITY:** 0.79 to 0.797 kg/l @ 20 deg C**MOLECULAR WEIGHT:** 58 g/mol**(VOC):** ~ % by volume @ 21°C (70°F)**Notes:** EPA granted acetone exempt-VOC status**10. STABILITY AND REACTIVITY****STABLE:** Yes**HAZARDOUS POLYMERIZATION:** No**STABILITY:** Stable under ordinary conditions of use and storage.**POLYMERIZATION:** Avoid heat, flame, and other sources of ignition.**CONDITIONS TO AVOID:** Avoid heat, sparks, flame and contact with strong oxidizing agents. Prevent vapor accumulation.**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide and unidentified organic compounds may be formed during combustion.**INCOMPATIBLE MATERIALS:** Strong oxidizers.**11. TOXICOLOGICAL INFORMATION****ACUTE**

Chemical Name	ORAL LD <sub>50</sub> (rat)
Acetone	5800 mg/kg (Rat)

**GENERAL COMMENTS:** None identified.**12. ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION:** Keep out of waterways.**13. DISPOSAL CONSIDERATIONS**

**ACETONE**

**DISPOSAL METHOD:** The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

**EMPTY CONTAINER: KEEP OUT OF REACH OF CHILDREN!** Empty containers retain product residue and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

**RCRA/EPA WASTE INFORMATION:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Acetone

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** UN 1090

**PACKING GROUP:** II

**NAERG:** 127

**LABEL:** Flammable liquid

**15. REGULATORY INFORMATION****UNITED STATES****DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**

Flammable Liquid

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:** This product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

**FIRE:** Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** To the best of our knowledge, this product is not listed as a toxic chemical under Section 313 of SARA Title III.

**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** To the best of our knowledge, this product is not listed as an extremely hazardous substance.

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**REPORTABLE SPILL QUANTITY:** 5882 lbs

**GENERAL COMMENTS:** The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

## ACETONE

## 16. OTHER INFORMATION

**REASON FOR ISSUE:** Reviewed and issued a new revision date.

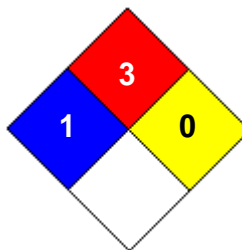
**PREPARED BY:** Compliance

**REVISION SUMMARY:** This MSDS replaces the 5/5/2011 MSDS. Revised: **Section 1:** PREPARED BY, REASON FOR ISSUE. **Section 3:** COMMENTS, Wt.%. **Section 5:** FLAMMABLE LIMITS, FLASHPOINT AND METHOD. **Section 9:** BOILING POINT, DENSITY, EVAPORATION RATE, MOLECULAR WEIGHT, ODOR, SPECIFIC GRAVITY, VAPOR DENSITY, (VOC). **Section 14:** DOT (DEPARTMENT OF TRANSPORTATION) ( UN/NA NUMBER, NAERG ). **Section 16:** HMIS RATING - HEALTH.

## HMIS RATING

<b>HEALTH</b>	<input type="checkbox"/>	<b>2</b>
<b>FLAMMABILITY</b>		<b>3</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>
<b>PERSONAL PROTECTION</b>		<b>G</b>

## NFPA CODES



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