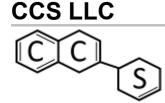
consolidated-chemical.com



SAFETY DATA SHEET

Revision Date 04/14/2017

# 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers Product name : Acetone

Brand : CCS LLC

CAS-No. : 67-64-1

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

#### 1.3 Details of the supplier of the safety data sheet

Company	:	Consolidated Chemical & Solvents 2240 Spinnerstown Rd Quakertown PA 18055 USA
Telephone	:	215-538-4039

#### 1.4 Emergency telephone number

Emergency Phone # : 703-527-3887 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s) H225 H319 H336	Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.
Precautionary statement(s) P210 P233 P240 P241 P242 P243	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for
	breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to
	extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Repeated exposure may cause skin dryness or cracking.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

Formula	: C <sub>3</sub> H <sub>6</sub> O	
Molecular weight	: 58.08 g/mol	
CAS-No.	: 67-64-1	
EC-No.	: 200-662-2	
Index-No.	: 606-001-00-8	3

# Hazardous components

Component	Classification	Concentration
Acetone		
	Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319,	<= 100 %
	H336	

For the full text of the H-Statements mentioned in this Section, see Section 16.

### **4. FIRST AID MEASURES**

#### 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### 4.3 Indication of any immediate medical attention and special treatment needed No data available

### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture No data available

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 **Further information**

Use water spray to cool unopened containers.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

#### 6.2 **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

#### **Reference to other sections** 6.4

For disposal see section 13.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eves. Avoid inhalation of vapour or mist. Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

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. Storage class (TRGS 510): Flammable liquids

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 **Control parameters**

## Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Acetone	67-64-1	TWA	500.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Hematolog	spiratory Tract irritat	

 1		
Adopted val	ues or notations e	nclosed are those for which changes
are propose	d in the NIC	
	of Intended Chang	es (NIC)
		a Biological Exposure Index or Indices
(see BEI® s		a Biological Exposure maex of maloes
	ble as a human ca	
TWA	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
Central Nerv	vous System impa	irment
	iratory Tract irritati	
Eye irritation		
2015 Adopti		
		- Distantiant Francescus Instantian Institute
		a Biological Exposure Index or Indices
(see BEI® s		
Not classifia	ble as a human ca	arcinogen
STEL	750.000000	USA. ACGIH Threshold Limit Values
	ppm	(TLV)
	vous System impa	irment
Hematologic		
Upper Resp	iratory Tract irritati	on
Eye irritation		
		nclosed are those for which changes
are propose		holosed are those for which changes
	of Intended Chang	
		a Biological Exposure Index or Indices
(see BEI® s		
Not classifia	ble as a human ca	arcinogen
STEL	500 ppm	USA. ACGIH Threshold Limit Values (TLV)
Central Nerv	vous System impa	irment
	iratory Tract irritati	
Eye irritation		
2015 Adopti		S
		a Biological Exposure Index or Indices
(see BEI® s	,	
Not classifia	ble as a human ca	arcinogen
TWA	1,000.000000	USA. Occupational Exposure Limits
	ppm	(OSHA) - Table Z-1 Limits for Air
	2,400.000000	Contaminants
	mg/m3	
The velocities		moto
	mg/m3 is approxi	
TWA	250.000000	USA. NIOSH Recommended
	ppm	Exposure Limits
1	590.000000	
	0000000	
STEI	mg/m3	
STEL	mg/m3 750 ppm	California permissible exposure
STEL	mg/m3	limits for chemical contaminants
	mg/m3 750 ppm 1,780 mg/m3	limits for chemical contaminants (Title 8, Article 107)
STEL	mg/m3 750 ppm	limits for chemical contaminants (Title 8, Article 107) California permissible exposure
	mg/m3 750 ppm 1,780 mg/m3	limits for chemical contaminants (Title 8, Article 107)
	mg/m3 750 ppm 1,780 mg/m3	limits for chemical contaminants (Title 8, Article 107) California permissible exposure limits for chemical contaminants
C	mg/m3 750 ppm 1,780 mg/m3 3,000 ppm	limits for chemical contaminants (Title 8, Article 107) California permissible exposure limits for chemical contaminants (Title 8, Article 107)
	mg/m3 750 ppm 1,780 mg/m3 3,000 ppm 500 ppm	limits for chemical contaminants (Title 8, Article 107) California permissible exposure limits for chemical contaminants (Title 8, Article 107) California permissible exposure
C	mg/m3 750 ppm 1,780 mg/m3 3,000 ppm	limits for chemical contaminants (Title 8, Article 107) California permissible exposure limits for chemical contaminants (Title 8, Article 107)

# **Biological occupational exposure limits**

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Acetone	67-64-1	Acetone	50.0000	Urine	ACGIH - Biological

		mg/l		Exposure Indices (BEI)
Remarks	End of shift (As	s soon as po	ssible after exposure	e ceases)
	Acetone	25 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	End of shift (As	s soon as po	ssible after exposure	e ceases)

#### **Derived No Effect Level (DNEL)**

Application Area	Exposure routes	Health effect	Value
Workers	Skin contact	Long-term systemic effects	186mg/kg BW/d
Consumers	Ingestion	Long-term systemic effects	62mg/kg BW/d
Consumers	Skin contact	Long-term systemic effects	62mg/kg BW/d
Workers	Inhalation	Acute systemic effects	2420 mg/m3
Workers	Inhalation	Long-term systemic effects	1210 mg/m3
Consumers	Inhalation	Long-term systemic effects	200 mg/m3

### Predicted No Effect Concentration (PNEC)

Compartment	Value
Soil	33.3 mg/kg
Marine water	1.06 mg/l
Fresh water	10.6 mg/l
Marine sediment	3.04 mg/kg
Fresh water sediment	30.4 mg/kg
Onsite sewage treatment plant	100 mg/l

#### 8.2 Exposure controls

#### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### **Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Body Protection**

Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.2

#### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: -94 °C (-137 °F)
f)	Initial boiling point and boiling range	56 °C (133 °F) at 1,013 hPa (760 mmHg)
g)	Flash point	-17.0 °C (1.4 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 13 %(V) Lower explosion limit: 2 %(V)
k)	Vapour pressure	533.3 hPa (400.0 mmHg) at 39.5 °C (103.1 °F) 245.3 hPa (184.0 mmHg) at 20.0 °C (68.0 °F)
I)	Vapour density	No data available
m)	Relative density	0.791 g/mL at 25 °C (77 °F)
n)	Water solubility	completely miscible
o)	Partition coefficient: n- octanol/water	log Pow: -0.24
p)	Auto-ignition temperature	465.0 °C (869.0 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
Oth	ner safety information	
	Surface tension	23.2 mN/m at 20.0 °C (68.0 °F)

### **10. STABILITY AND REACTIVITY**

10.1 Reactivity No data available

**10.2** Chemical stability Stable under recommended storage conditions.

- **10.3 Possibility of hazardous reactions** Vapours may form explosive mixture with air.
- **10.4 Conditions to avoid** Heat, flames and sparks.
- **10.5** Incompatible materials Bases, Oxidizing agents, Reducing agents, Acetone reacts violently with phosphorous oxychloride.
- Hazardous decomposition products
  Hazardous decomposition products formed under fire conditions. Carbon oxides
  Other decomposition products No data available
  In the event of fire: see section 5

### **11. TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - 5,800 mg/kg Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Tremor. Behavioral:Headache. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

LC50 Inhalation - Rat - 8 h - 50,100 mg/m3 Remarks: Drowsiness Dizziness Unconsciousness

LD50 Dermal - Guinea pig - 7,426 mg/kg

No data available

### Skin corrosion/irritation

Skin - Rabbit Result: Mild skin irritation - 24 h

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: Eye irritation - 24 h

#### Respiratory or skin sensitisation

- Guinea pig Result: Does not cause skin sensitisation.

Germ cell mutagenicity

No data available

#### Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **Reproductive toxicity**

No data available

No data available

Specific target organ toxicity - single exposure May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure No data available

#### Aspiration hazard No data available

#### **Additional Information**

RTECS: AL3150000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney - Irregularities - Based on Human Evidence Skin - Dermatitis - Based on Human Evidence Kidney - Irregularities - Based on Human Evidence Skin - Dermatitis - Based on Human Evidence

### **12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

Toxicity to fishLC50 - Oncorhynchus mykiss (rainbow trout) - 5,540 mg/l - 96 hToxicity to daphnia andLC50 - Daphnia magna (Water flea) - 8,800 mg/l - 48 h

other aquatic invertebrates

Toxicity to algae Remarks: No data available

#### 12.2 Persistence and degradability Biodegradability Result: 91 % - Readily biodegradable (OECD Test Guideline 301B)

# **12.3 Bioaccumulative potential** Does not bioaccumulate.

#### **12.4 Mobility in soil** No data available

### 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

No data available

### **13. DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

### DOT (US)

UN number: 1090 Class: 3 Proper shipping name: Acetone

Packing group: II

CAS-No

EMS-No: F-E, S-D

Revision Date

# Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

#### IMDG

UN number: 1090 Class: 3 Proper shipping name: ACETONE

# ΙΑΤΑ

UN number: 1090 Class: 3 Proper shipping name: Acetone

Packing group: II

Packing group: II

# **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

# Massachusetts Right To Know Components

Acetone	67-64-1	2007-03-01
Acelone	07-04-1	2007-03-01
Pennsylvania Right To Know Components		
	CAS-No.	Revision Date
Acetone	67-64-1	2007-03-01
New Jersey Right To Know Components		
	CAS-No.	Revision Date
Acetone	67-64-1	2007-03-01

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### **16. OTHER INFORMATION**

### Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
STOT SE	Specific target organ toxicity - single exposure

#### **HMIS Rating**

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	3
Physical Hazard	0
<b>NFPA Rating</b> Health hazard: Fire Hazard: Reactivity Hazard:	2 3 0

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Consolidated Chemical & Solvents and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.