Printing date: March 06, 2019

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1 Identification		
· Product identifier		
Trade name: <u>Aceton</u> Product code: S2512		
· Recommended use:	and restriction on use Laboratory chemicals No relevant information available.	
 Details of the supp Manufacturer/Suppli AquaPhoenix Scientifi 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-129 Toll-Free: (866)632-12 info@aquaphoenixsci Distributor: Fisher Science Educa 6771 Silver Crest Roa Nazareth, PA 18064 (800) 955-1177 	ic, Inc. 1 291 .com	
· Emergency telephon	ne number:	
ChemTel Inc. (800)255-3924 (North +1 (813)248-0585 (Int	America) ternational)	
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acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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	(Cont'd. of page 1)	
P241	Use explosion-proof electrical/ventilating/lighting/equipment.	
P242	Use only non-sparking tools.	
P243	Take precautionary measures against static discharge.	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray	
P264	Wash thoroughly after handling.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P303+P361+P353	B If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with	
	water/shower.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P305+P351+P338	3 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if	
	present and easy to do. Continue rinsing.	
P312	Call a poison center/doctor if you feel unwell.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.	
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 in accordance with local/regional/national/international	
	regulations.	
· Additional information: Repeated exposure may cause skin dryness or cracking.		
· Other hazards There are no other hazards not otherwise classified that have been identified.		

3 Composition/information on ingredients

[•] Chemical characterization: Substances

· Components:

67-64-1 Acetone

Flam. Liq. 2, H225
 Eye Irrit. 2A, H319; STOT SE 3, H336

• Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

· After skin contact:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation continues, consult a doctor.

· After eye contact:

Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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100%

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· After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. Most important symptoms and effects, both acute and delayed: Causes eye irritation. Breathing difficulty Coughing Causes mild skin irritation. Gastric or intestinal disorders when ingested. Nausea in case of ingestion. Dizziness Acidosis Disorientation Unconsciousness · Danger: Danger of impaired breathing. Causes serious eye irritation. · Indication of any immediate medical attention and special treatment needed: If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Foam Sand Water fog / haze Carbon dioxide Gaseous extinguishing agents Fire-extinguishing powder
 For safety reasons unsuitable extinguishing agents: Water stream.
- · Special hazards arising from the substance or mixture

Highly flammable liquid and vapor.

Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

- Wear fully protective suit.
- [•] Additional information:

Eliminate all ignition sources if safe to do so. Use large quantities of foam as it is partially destroyed by the product.

Cool ondengered recontacles with water in fleeding quantities

Cool endangered receptacles with water in flooding quantities.

6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
 For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

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Ensure adequate ventilation. Keep away from ignition sources. Protect from heat.

• Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

[•] Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

· Handling

- · Precautions for safe handling:
- Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

• Information about protection against explosions and fires: Highly flammable liquid and vapor. Keep ignition sources away - Do not smoke.

Keep ignition sources away - Do not smoke

Protect against electrostatic charges.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

[•] Conditions for safe storage, including any incompatibilities

• **Requirements to be met by storerooms and receptacles:** Store in a cool location.

Avoid storage near extreme heat, ignition sources or open flame. • Information about storage in one common storage facility:

- Store away from foodstuffs.
- Store away from oxidizing agents.
- Further information about storage conditions: Keep containers tightly sealed.
- · Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

[·] Control parameters

· Components with limit values that require monitoring at the workplace:			
67-64-1 Acetone			
PEL (USA)	Long-term value: 2400 mg/m ³ , 1000 ppm		
REL (USA)	Long-term value: 590 mg/m ³ , 250 ppm		
TLV (USA)	Short-term value: 1187 mg/m ³ , 500 ppm		
	Long-term value: 594 mg/m ³ , 250 ppm		
	BEI		
	(Cont'd. on page 5)		

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Trade name: Acetone, ACS Grade (Cont'd. of page 4) EL (Canada) Short-term value: 500 ppm Long-term value: 250 ppm Short-term value: 750 ppm EV (Canada) Long-term value: 500 ppm Short-term value: 750 ppm LMPE (Mexico) Long-term value: 500 ppm A4, ĪBE · Ingredients with biological limit values: 67-64-1 Acetone BEI (USA) 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) Exposure controls · General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale dust / smoke / mist. · Engineering controls: Provide adequate ventilation. · Breathing equipment: For large spills, respiratory protection may be advisable. Use suitable respiratory protective device when high concentrations are present. Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves Laminated film gloves. Nitrile rubber, NBR Neoprene gloves Butyl rubber, BR Not suitable are gloves made of the following materials: **PVC** gloves **PVA** gloves · Eye protection: Safety glasses Follow relevant national guidelines concerning the use of protective eyewear. · Body protection: Solvent resistant protective clothing Limitation and supervision of exposure into the environment No relevant information available.

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9 Physical and chemical properties				
 Information on basic physical and chemical properties Appearance: 				
Form:	Liquid			
Color:	Clear			
· Odor:	Characteristic			
· Odor threshold:	Not determined.			
· pH-value:	Not determined.			
 Melting point/Melting range: 	-94.7 ℃ (-138.5 ℉)			
 Boiling point/Boiling range: 	55.8-56.6 ℃ (132.4-133.9 °F)			
· Flash point:	<-18 ℃ (<-0.4 ℉)			
· Flammability (solid, gaseous):	Not applicable.			
· Auto-ignition temperature:	465 °C (869 °F)			
· Decomposition temperature:	Not determined.			
· Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.			
· Explosion limits				
Lower:	2.6 Vol %			
Upper:	13 Vol %			
 Oxidizing properties: 	Not determined.			
· Vapor pressure at 20 °C (68 °F):	233 hPa (174.8 mm Hg)			
· Density at 20 ℃ (68 ℉):	0.81 g/cm ³ (6.76 lbs/gal)			
 Relative density: 	Not determined.			
 Vapor density: 	Not determined.			
· Evaporation rate:	Not determined.			
 Solubility in / Miscibility with 				
Water:	Fully miscible.			
· Partition coefficient (n-octanol/water): Not determined.				
· Viscosity				
Dynamic at 20 °C (68 °F):	32 mPas			
Kinematic:	Not determined.			
Other information	No relevant information available.			

10 Stability and reactivity

· Reactivity: No relevant information available.

• Chemical stability: Stable under normal temperatures and pressures.

• Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· Possibility of hazardous reactions Reacts with oxidizing agents.

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Used empty containers may contain product gases which form explosive mixtures with air. Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized. Highly flammable liquid and vapor.

Toxic fumes may be released if heated above the decomposition point.

• **Conditions to avoid** Keep ignition sources away - Do not smoke. Store away from oxidizing agents.

· Incompatible materials No relevant information available.

• Hazardous decomposition products Under fire conditions only:

Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

67-64-1 Acetone

Oral LD50 5800 mg/kg (rat)

Dermal LD50 20000 mg/kg (rabbit)

Primary irritant effect:

· On the skin:

Based on available data, the classification criteria are not met.

- Causes mild skin irritation.
- On the eye: Irritating effect.
- · Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

Substance is not listed.

· NTP (National Toxicology Program):

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration):

Substance is not listed.

· Probable route(s) of exposure:

- Ingestion.
- Inhalation.

Eye contact.

Skin contact.

- · Acute effects (acute toxicity, irritation and corrosivity):
- Causes serious eye irritation.
- Vapors have narcotic effect.
- Repeated dose toxicity: Repeated exposure may cause skin dryness or cracking.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.

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· Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- [·] Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- · Mobility in soil: No relevant information available.
- [•] Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- [•] Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No relevant information available.

13 Disposal considerations

Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number		
· DOT, ADR/RID/ADN, IMDG, IATA	UN1090	
· UN proper shipping name		
· DOT, IMDG, IATA	ACETONE	
· ADR/RID/ADN	1090 ACETON	
· Transport hazard class(es)		
DOT		
3		

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	(Cont'd. of page 8)			
· Class · Label	3 3			
· ADR/RID/ADN				
· Class · Label	3 (F1) 3			
· IMDG, IATA				
· Class · Label	3			
· Packing group	5			
· DOT, ADR/RID/ADN, IMDG, IATA	II			
· Environmental hazards	Not applicable.			
 Special precautions for user Danger code (Kemler): EMS Number: 	Warning: Flammable liquids 33 F-E,S-D			
 Transport in bulk according to Annex II MARPOL73/78 and the IBC Code 	of Not applicable.			
• Transport/Additional information:	Transport/Additional information:			
· DOT · Hazardous substance:	5000 lbs, 2270 kg			
15 Regulatory information · Safety, health and environmental regulations/legislation specific for the substance or mixture				
· United States (USA) · SARA				
· Section 302 (extremely hazardous substances):				
Substance is not listed.				
	Section 355 (extremely hazardous substances):			
Substance is not listed.				
Section 313 (Specific toxic chemical listings): Substance is not listed.				

· TSCA (Toxic Substances Control Act)

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Substance is listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause developmental toxicity for females:

Substance is not listed.

· Chemicals known to cause developmental toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· EPA (Environmental Protection Agency):

· IARC (International Agency for Research on Cancer):

Substance is not listed.

· Canadian Domestic Substances List (DSL) (Substances not listed.):

Substance is listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration Flam. Liq. 2: Flammable liquids - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue

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