

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Reviewed on 09/24/2018



Issue date 06/11/2015

* 1 Identification

- **Product identifier**
- **Trade name: Acetone**
- **CAS Number:**
67-64-1
- **EINECS Number:** 200-622-2
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information
- **Product description** Acetone, USP/NF
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Dermatologic Lab & Supply, Inc.
608 13th Ave.
Council Bluffs, IA USA 51501-6401
Voice: (800) 831-6273 or (712) 323-3269
Fax: (800) 320-9612 or (712) 323-1156
www.delasco.com
- **Emergency telephone number:** Chemtrec 800-424-9300

*

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2H225 Highly flammable liquid and vapor.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3H336 May cause drowsiness or dizziness.

- **Label elements**
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02 GHS07

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/2015

Reviewed on 09/24/2018

Trade name: Acetone

· **Signal word** Danger

· **Hazard-determining components of labeling:**

Acetone

· **Hazard statements**

Highly flammable liquid and vapor.

Causes serious eye irritation. May

cause drowsiness or dizziness.

· **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves / eye protection / face protection.

Wear eye protection / face protection.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a poison center/doctor if you feel unwell.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO₂, powder or water spray.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Unknown acute toxicity:**

0 percent of the mixture consists of ingredient(s) of unknown toxicity.

· **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 3

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 1

Fire = 3

Reactivity = 0

· **Hazard(s) not otherwise classified (HNOC):** None known

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/2015

Reviewed on 09/24/2018

Trade name: Acetone

* 3 Composition/information on ingredients

- **Chemical characterization: Substance**
- **CAS No. Description**
67-64-1 Acetone
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous Components:**

CAS: 67-64-1 RTECS: AL 3150000	Acetone	 Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	70-100%
-----------------------------------	---------	---	---------

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.
In case of unconsciousness, place patient securely on side position for transportation.
- **After skin contact:**
Wash with soap and water. If skin irritation occurs, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Drink copious amounts of water and provide fresh air. Immediately call a doctor. Do not induce vomiting without medical advice.
- **Information for doctor:** · **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

* 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters** Use water spray to cool unopened containers.
- **Protective equipment:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Avoid contact with skin, eyes and clothing.
Keep people at a distance and stay upwind.
Keep away from ignition sources Do not inhale gases / fumes / aerosols
Treat any fumes as toxic.
- **Environmental precautions:**

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/2015

Reviewed on 09/24/2018

Trade name: Acetone

Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation. Dispose of the collected material according to regulations. · **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**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Keep away from heat and direct sunlight.

Open and handle receptacle with care.

Avoid contact with skin, eyes and clothing

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

Do not spray on a naked flame or any incandescent material.

Do not cut, grind or weld on container that contains or contained product.

· **Conditions for safe storage, including any incompatibilities** Store away from strong bases, strong oxidizing agents, strong reducing agents and Phosphorous oxychloride.

· **Storage:**

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

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters**

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

· **Components with occupational exposure limits:**

67-64-1 Acetone

PEL 2400 mg/m³, 1000 ppm

REL 590 mg/m³, 250 ppm

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/2015

Reviewed on 09/24/2018

Trade name: Acetone

TLV	Short-term value: (1782) NIC-1187 mg/m ³ , (750) NIC-500 ppm Long-term value: (1188) NIC-475 mg/m ³ , (500) NIC-200 ppm BEI
· Ingredients with biological limit values:	
67-64-1 Acetone	
BEI	50 mg/L urine end of shift Acetone (nonspecific)

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Select glove material based on penetration times, rates of diffusion and degradation. · **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Not required.

* 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information · Appearance:**

Form: Liquid

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/2015

Reviewed on 09/24/2018

Trade name: Acetone

<ul style="list-style-type: none"> · Color: · Odor: · Odor threshold: · pH-value: · Change in condition <ul style="list-style-type: none"> Melting point/Melting range: Boiling point/Boiling range: · Flash point: · Flammability (solid, gaseous): · Ignition temperature: · Decomposition temperature: · Auto igniting: · Danger of explosion: · Explosion limits: <ul style="list-style-type: none"> Lower: Upper: · Vapor pressure @ 20 °C (68 °F): · Density @ 20 °C (68 °F): · Relative density · Vapor density · Evaporation rate · Solubility in / Miscibility with <ul style="list-style-type: none"> Water: · Partition coefficient (n-octanol/water): · Viscosity: <ul style="list-style-type: none"> Dynamic: Kinematic: Organic solvents: VOC content: · Other information 	<p>Colorless</p> <p>Pungent</p> <p>Not determined.</p> <p>Not determined.</p> <p>--</p> <p>55 °C (131 °F)</p> <p>-19 °C (-2 °F)</p> <p>Not applicable.</p> <p>465 °C (869 °F)</p> <p>Not determined.</p> <p>Product is not self-igniting.</p> <p>Product is not explosive. However, formation of explosive air/vapor mixtures are possible.</p> <p>2.6 Vol %</p> <p>13.0 Vol %</p> <p>233 hPa (175 mm Hg)</p> <p>0.79 g/cm³ (6.593 lbs/gal)</p> <p>Not determined.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Fully miscible.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Not determined.</p> <p>100 %</p> <p>100 %</p> <p>No further relevant information available.</p>
--	---

* 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Heat, flame and ignition sources.
- **Incompatible materials:**
Strong bases, strong oxidizing agents, strong reducing agents and Phosphorous oxychloride.
- **Hazardous decomposition products:** Carbon Oxides.

* 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/2015

Reviewed on 09/24/2018

Trade name: Acetone

· **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:** No irritating effect.
- **on the eye:** Irritating effect.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

- Group 1 - Carcinogenic to humans
- Group 2A - Probably carcinogenic to humans
- Group 2B - Possibly carcinogenic to humans
- Group 3 - Not classifiable as to its carcinogenicity to humans
- Group 4 - Probably not carcinogenic to humans Substance is not listed.

NTP (National Toxicology Program) Substance is not listed.

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

Substance is not listed.

* 12 Ecological information

· **Toxicity** The hazards for the aquatic environment are unknown.

· **Aquatic toxicity:** No further relevant information available.

Persistence and degradability No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

Additional ecological information: · **General notes:**

Do not allow undiluted product or product that has not been neutralized 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 further 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. Observe all federal, state and local environmental regulations when disposing of this material.

Uncleaned packagings:

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/2015

Reviewed on 09/24/2018

Trade name: Acetone

14 Transport information

- **UN-Number**

- **DOT, ADR, IMDG, IATA** UN1090
- **UN proper shipping name** Not Regulated for Transportation
- **DOT, IMDG, IATA** ACETONE, solution
- **ADR** 1090 ACETONE, solution

- **Transport hazard class(es)**

- **DOT**



- **Class** 3 Flammable liquids
- **Label** 3
- **ADR, IMDG, IATA**



- **Class** 3 Flammable liquids
- **Label** 3
- **Packing group**
- **DOT, ADR, IMDG, IATA** II
- **Environmental hazards:** Not applicable.
- **Special precautions for user** Warning: Flammable liquids
- **Danger code (Kemler):** 33
- **EMS Number:** F-E,S-D
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** UN1090, ACETONE, solution, 3, II

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/2015

Reviewed on 09/24/2018

Trade name: Acetone

* 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

Substance is not listed.

- **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

- **TSCA (Toxic Substances Control Act):**

Substance is listed.

- **California Proposition 65**

- **Chemicals known to cause cancer:**

Substance is not listed.

- **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

- **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

- **Chemicals known to cause developmental toxicity:**

Substance is not listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

67-64-1 Acetone

I

- **TLV (Threshold Limit Value established by ACGIH)**

67-64-1 Acetone

A4

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

- **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/2015

Reviewed on 09/24/2018

Trade name: Acetone**Hazard pictograms**

GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**

Acetone

- **Hazard statements**

Highly flammable liquid and vapor.

Causes serious eye irritation. May cause drowsiness or dizziness.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves / eye protection / face protection.

Wear eye protection / face protection.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a poison center/doctor if you feel unwell.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO₂, powder or water spray.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

Non-Regulated Material

State Right to Know

CAS: 67-64-1

Acetone

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

100%

RTECS: AL 3150000

None of the ingredients are listed

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/11/2015

Reviewed on 09/24/2018

Trade name: Acetone

· **Date of preparation / last revision** 06/11/2015 / - 09/24/2018

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

-* Data compared to the previous version altered.

SDS created by MSDS Authoring Services

www.msdsauthoring.com

+1-877-204-9106