



Safety Data Sheet

Material Name: ACETONE

SDS ID: 820217

*** Section 1 - Identification ***

Product Identifier

Acetone

Product Code

Linden

Synonyms

Acetone, 2-Propanone, Dimethyl Ketone.

Recommended Use

Solvent (reduction, chemical intermediate, cleaning agent).

Restrictions on Use

None known.

Manufacturer Information

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Emergency # 1-800-468-1760

Issue Date

July 16, 2015

Supersedes Issue Date

New Issue SDS

Original Issue Date

New Issue SDS

*** Section 2 - Hazard(s) Identification ***

Classification in Accordance with 29 CFR 1910.1200.

Flammable Liquids, Category 2

Eye Damage / Irritation, Category 2A

Specific Target Organ Toxicity - Single Exposure, Category 3 (central nervous system and respiratory tract)

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER!

Hazard Statement(s)

Highly flammable liquid and vapor

Causes serious eye irritation

May cause drowsiness and dizziness and respiratory irritation

Precautionary Statement(s)

Prevention

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye/face protection. Wash thoroughly after handling. Avoid breathing vapor or mist. Use only outdoors or in a well-ventilated area.

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Response

In case of fire, use carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog. IF exposed or concerned: Call a POISON CENTER or doctor/physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Storage

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

Disposal

Dispose of in accordance with all applicable federal, state and local regulations.

Hazard(s) Not Otherwise Classified

None known.

*** Section 3 - Composition / Information on Ingredients ***

CAS	Component	Percent
67-64-1	Acetone	98-100
67-56-1	Methanol	0-1
108-88-3	Toluene	0-1

*** Section 4 - First Aid Measures ***

Description of Necessary Measures

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin

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

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms/Effects

Acute

Eye irritation, central nervous system depression, respiratory tract irritation.

Delayed

No information on significant adverse effects.

Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

Treat symptomatically and supportively.

*** Section 5 - Fire-Fighting Measures ***

Suitable Extinguishing Media

Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog.

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

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Specific Hazards Arising from the Chemical

Highly flammable liquid and vapor Avoid friction, static electricity and sparks. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Empty containers may contain product residue. Runoff to sewer may cause a fire or explosion hazard.

Hazardous Combustion Products

Decomposition and combustion materials may be toxic., Burning may produce carbon monoxide and unidentified organic compounds.

Special Protective Equipment and Precautions for Firefighters

A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Apply water from a protected location or from a safe distance. Dike for later disposal.

NFPA Ratings: Health: 1 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

* * * Section 6 – Accidental Release Measures * * *

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

Methods and Materials for Containment and Clean Up

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **Section 8: Exposure Controls/Personal Protection**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see **Section 15**.

* * * Section 7 – Handling and Storage * * *

Precautions for Safe Handling

Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools and explosion-proof equipment. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke when using this product.

Conditions for Safe Storage, Including Any Incompatibilities

Keep container tightly closed when not in use and during transport. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition; containers may explode and cause injury or death. Empty product containers may retain product residue and can be dangerous. See **Section 14: Transportation Information** for Packing Group information.

Incompatibilities

Strong oxidizing materials.

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* * * Section 8 – Exposure Controls / Personal Protection * * *

Component Exposure Limits

Acetone (67-64-1)

ACGIH: 500 ppm TWA
750 ppm STEL

OSHA Final: 1000 ppm TWA; 2400 mg/m³ TWA

OSHA Vacated: 750 ppm TWA; 1800 mg/m³ TWA
2400 mg/m³ STEL (The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors); 1000 ppm STEL

NIOSH: 250 ppm TWA; 590 mg/m³ TWA

Methanol (67-56-1)

ACGIH: 200 ppm TWA
250 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA Final: 200 ppm TWA; 260 mg/m³ TWA

OSHA Vacated: 200 ppm TWA; 260 mg/m³ TWA
250 ppm STEL; 325 mg/m³ STEL
Prevent or reduce skin absorption

NIOSH: 200 ppm TWA; 260 mg/m³ TWA
250 ppm STEL; 325 mg/m³ STEL
Potential for dermal absorption

Toluene (108-88-3)

ACGIH: 20 ppm TWA

OSHA Final: 200 ppm TWA
300 ppm Ceiling

OSHA Vacated: 100 ppm TWA; 375 mg/m³ TWA
150 ppm STEL; 560 mg/m³ STEL

NIOSH: 100 ppm TWA; 375 mg/m³ TWA
150 ppm STEL; 560 mg/m³ STEL

Appropriate Engineering Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Ensure compliance with applicable exposure limits.

Individual Protective Measures, such as Personal Protective Equipment

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: safety glasses, gloves, lab coat or apron.

Eyes/Face Protection

Eye protection: Safety glasses with side shields should be worn at a minimum. Additional protection such as goggles, face shields, or respirators may be needed depending upon anticipated use and concentrations of mists or vapors. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Contact lens use is not recommended.

Skin Protection

Where skin contact is likely, wear neoprene, nitrile, or equivalent protective gloves; use of natural rubber or equivalent gloves is not recommended. Wear protective gloves/clothing.

Respiratory Protection

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

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*** Section 9 - Physical & Chemical Properties ***

Appearance/Odor : Clear and colorless, mint like,
fragrant odor

pH: Not available

Boiling Point: 133.2 °F (56.2 °C)

Odor Threshold: Not available

Solubility (H2O): Complete

Melting Point: -139.6°F (-95.35°C)

Density: Not available

Specific Gravity: 0.79 (water=1)

Evaporation Rate: Not available

Octanol/H2O Coeff.: Not available.

LFL: 2.6 Vol %

Auto Ignition Temperature: 869 °F (465 °C)

UFL: 12.8 Vol %

Flash Point: -4 °F (-20 °C)

Vapor Pressure: 24 kPa

Viscosity: Not available

Decomposition Temperature: Not available

Vapor Density: 2 (Air = 1)

Other Property Information

No information is available.

*** Section 10 - Stability & Reactivity ***

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions To Avoid

Avoid heat, sparks, or flame when not in use.

Incompatible Materials

Strong oxidizing materials

Hazardous Decomposition Products

None under normal temperatures and pressures., See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.**

*** Section 11 - Toxicological Information ***

Toxicity Data and Information

Component Analysis - LD50/LC50

Acetone (67-64-1)

Inhalation LC50 Rat 50100 mg/m3 8 h

Methyl alcohol (67-56-1)

Inhalation LC50 Rat 83.2 mg/L 4 h; Oral LD50 Rat 5628 mg/kg

Information on Likely Routes of Exposure

Inhalation

May cause respiratory tract irritation. May cause drowsiness and dizziness.

Ingestion

No information on significant adverse effects.

Skin Contact

No information on significant adverse effects.

Eye Contact

Causes serious eye irritation.

Immediate Effects

Eye irritation, central nervous system depression, respiratory tract irritation.

Delayed Effects

No information on significant adverse effects.

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Irritation/Corrosivity

Eye irritation, respiratory tract irritation.

Respiratory Sensitization

No information available for the product.

Skin Sensitization

No information available for the product.

Carcinogenicity

Component Carcinogenicity

Toluene (108-88-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Acetone (67-64-1)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Germ Cell Mutagenicity

Based on best current information, there is no known mutagenicity associated with this product.

Teratogenicity

Based on best current information, there is no known teratogenicity associated with this product.

Reproductive Effects

Based on best current information, there is no known reproductive toxicity associated with this product.

Specific Target Organ Effects - Single Exposure

Central nervous system, respiratory tract irritation

Specific Target Organ Effects - Repeated Exposure

No information on significant adverse effects.

Aspiration Hazard

No data available.

Medical Conditions Aggravated by Exposure

Blood disorders, respiratory disorders, central nervous system disorders, eye disorders

*** Section 12 - Ecological Information ***

Ecotoxicity

Toxic to aquatic life.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Toluene (108-88-3)

Duration/Test/Species

Concentration/Conditions

96 Hr LC50 Pimephales promelas

15.22 - 19.05 mg/L [flow-through]

96 Hr LC50 Pimephales promelas

12.6 mg/L [static]

96 Hr LC50 Oncorhynchus mykiss

5.89 - 7.81 mg/L [flow-through]

96 Hr LC50 Oncorhynchus mykiss

14.1 - 17.16 mg/L [static]

96 Hr LC50 Oncorhynchus mykiss

5.8 mg/L [semi-static]

96 Hr LC50 Lepomis macrochirus

11.0 - 15.0 mg/L [static]

96 Hr LC50 Oryzias latipes

54 mg/L [static]

96 Hr LC50 Poecilia reticulata

28.2 mg/L [semi-static]

96 Hr LC50 Poecilia reticulata

50.87 - 70.34 mg/L [static]

96 Hr EC50 Pseudokirchneriella subcapitata

>433 mg/L

72 Hr EC50 Pseudokirchneriella subcapitata

12.5 mg/L [static]

48 Hr EC50 Daphnia magna

5.46 - 9.83 mg/L [Static]

48 Hr EC50 Daphnia magna

11.5 mg/L

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Acetone (67-64-1)

Duration/Test/Species

96 Hr LC50 Oncorhynchus mykiss
96 Hr LC50 Pimephales promelas
96 Hr LC50 Lepomis macrochirus
48 Hr EC50 Daphnia magna
48 Hr EC50 Daphnia magna

Concentration/Conditions

4.74 - 6.33 mL/L
6210 - 8120 mg/L [static]
8300 mg/L
10294 - 17704 mg/L [Static]
12600 - 12700 mg/L

Notes

Methyl alcohol (67-56-1)

Duration/Test/Species

96 Hr LC50 Pimephales promelas
96 Hr LC50 Pimephales promelas
96 Hr LC50 Oncorhynchus mykiss
96 Hr LC50 Oncorhynchus mykiss
96 Hr LC50 Lepomis macrochirus

Concentration/Conditions

28200 mg/L [flow-through]
>100 mg/L [static]
19500 - 20700 mg/L [flow-through]
18 - 20 mL/L [static]
13500 - 17600 mg/L [flow-through]

Persistence and Degradability

No information available for the product.

Bioaccumulation Potential

No information available for the product.

Mobility in Soil

No information available for the product.

Other Adverse Effects

No additional information is available.

*** Section 13 - Disposal Considerations ***

Disposal Methods

USEPA Waste Code D001. Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code applicable to the disposal of this product. Dispose of in accordance with all applicable federal, state and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

*** Section 14 - Transport Information ***

International Transportation Regulations

DOT Shipping Name: Acetone

UN/NA #: UN1090 Hazard Class: 3 Packing Group: II

Required Label(s): FLAMMABLE LIQUID

Additional Information: RQ = 5000lbs

TDG Shipping Name: Acetone

UN/NA #: UN1090 Hazard Class: 3 Packing Group: II

Required Label(s): FLAMMABLE LIQUID

*** Section 15 - Regulatory Information ***

Federal Regulations

SARA 302/304

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

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SARA 311/312 Hazardous Categories

Acute Health: Yes Chronic Health: No Fire: Yes Pressure: No Reactive: No

SARA Section 313

Component Analysis

This product does not contain any "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

CERCLA

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product contains the following "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantities (RQ):

Acetone (67-64-1)	5000 lb final RQ; 2270 kg final RQ
Toluene (108-88-3)	1.0 % de minimis concentration
Methyl alcohol (67-56-1)	1.0 % de minimis concentration

TSCA Inventory

The component of this product is listed on the TSCA Inventory.

Component Analysis

Component	CAS #	TSCA
Acetone	67-64-1	Yes
Toluene	108-88-3	Yes
Methyl alcohol	67-56-1	Yes

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	MA	MN	NJ	PA	CA
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes
Methyl alcohol	67-56-1	Yes	Yes	Yes	Yes	Yes

May contain trace amounts of benzene, (CAS 71-43-2). WARNING! This product contains a chemical known to the state of California to cause cancer and reproductive/developmental hazards.

Canadian Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

Component Analysis

Component	CAS #	CAN
Acetone	67-64-1	DSL
Toluene	108-88-3	DSL
Methyl alcohol	67-56-1	DSL

Canadian WHMIS Information

B2 D2A D2B

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Toluene (108-88-3)	1 %
Acetone (67-64-1)	1 %
Methyl alcohol (67-56-1)	1 %

*** Section 16 - Other Information ***

Revision Information

New SDS.

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Key/Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Disclaimer

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or the product to which the information refers. The data contained on this sheet apply to the product as supplier to the user.

End of Sheet 820217