



SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Acetone Alcohol Blend 50/50
CAS number : acetone - 67-64-1
CAS number : Isopropyl A 64-17-5
Synonyms : None

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

Identified uses : Reagent for analysis

1.3 Details of the supplier of the safety data sheet

Company : Lab Alley, LLC
12501 Pauls Valley Road
Austin, Texas 78737
U.S.A.
Telephone : 512-668-9918
Fax : 512-886-4008

1.4 Emergency telephone

Emergency Phone # : US & Canada: 1-800-535-5053 INFOTRAC
International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

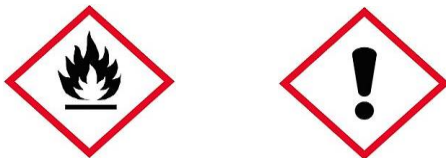
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225
Eye irritation (Category 2), 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 Highly flammable liquid and vapor
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness

Precautionary statement(s) : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P305 + IF IN EYES: Rinse cautiously with water for several minutes.
P351 + Remove contact lenses, if present and easy to do. Continue rinsing.
P338

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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Acetone		67-64-1	50
Isopropyl Alcohol	2-Propanol	67-63-0	50

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice : Show this material safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air. Call in physician.

- In case of skin contact** : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- In case of eye contact** : After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
- If swallowed** : After swallowing: immediately make victim drink water (two glasses at most). 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

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Carbon dioxide (CO2) Dry powder Foam
- Unsuitable extinguishing media** : Water
- Special Protective Equipment** : Fire fighters should use self-contained breathing apparatus and protective clothing.
- Precautions for Firefighters** : Carbon monoxide and unidentified organic compounds may be formed during combustion.

5.2 Specific hazards arising from the substance or mixture

Combustible.
 Carbon oxides
 Pay attention to flashback.
 Vapors are heavier than air and may spread along floors.
 Development of hazardous combustion gases or vapors possible in the event of fire.
 Forms explosive mixtures with air at ambient temperatures.

5.3 Special protective equipment and precautions for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

8. Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Isopropyl Alcohol	OSHA PEL TWA	400ppm
Acetone	OSHA PEL TWA	1000ppm

US. ACGIH Threshold Limit Values

Component	Type	Value
Isopropyl Alcohol	PEL TLV	400ppm (983 mg/m ³)
	STEL	500ppm (1230 mg/m ³)
Acetone	PEL TLV	500ppm
	STEL	750ppm

8.2 Exposure controls

Appropriate engineering controls

Use in a well ventilated area to prevent exposure. Maintain eyewash fountain and quick-drench facilities in work area.

Personal protective equipment

Eye/face protection

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

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: butyl-rubber

Minimum layer thickness: 0,7 mm

Break through time: > 480 min

Material tested: Butoject® (KCL 898)

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

Required when vapors/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical State	liquid
Appearance	colorless
Odor	Characteristic of rubbing alcohol and acetone
Odor Threshold	N/A
pH	N/A
Melting Point/Range	N/A
Boiling Point/Range	N/A
Evaporation Rate	N/A
Flammability (solid)	N/A
Flammability or explosive limit	
	Upper N/A
	Lower N/A
Vapor Pressure	N/A
Vapor Density	N/A
Density	N/A
Solubility	N/A
Partition coefficient; n-octanol/water	N/A
Autoignition Temp	N/A
Decomposition Temp	N/A
Viscosity	N/A
Molecular Formula	N/A
Molecular Weight	N/A
VOC Content(%)	N/A
Oxidizing properties	N/A

9.2 Other safety information

If ventilation hood not available wear respirator.

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapors may form explosive mixture with air.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Risk of explosion/exothermic reaction with:

Perchlorates	acid halides
Perchloric acid	Acid anhydrides
Nitric acid	Reducing agents
mercury(II) nitrate	Acids
permanganic acid	zinc diethyl
Nitriles	chlorates
peroxide compounds	chromosulfuric acid
Strong oxidizing agents	nitrogen oxides
nitrosyl compounds	nonmetallic oxyhalides
calcium hypochlorite	Chloroform
nonmetallic oxides	organic nitro compounds
metallic oxides	alkali hydroxides
uranium hexafluoride	Halogenated hydrocarbon
iodides	Sulfur dichloride
Chlorine	phosphorous oxychloride
Alkali metals	silver compounds
Alkaline earth metals	potassium permanganate
Ethylene oxide	chromyl chloride
salts of oxyhalogenic acids	Strong oxidizing agents strong reducing agents

10.4 Conditions to avoid

Heat, open flame.

10.5 Incompatible materials

Strong oxidizers, acetaldehyde, chlorine, ethylene oxide, acids, isocyanates

10.6 Hazardous decomposition products

Thermal-oxidation degradation can produce oxides of carbon. Toxic gases and vapors (I.e. Carbon monoxide) may be released in a fire.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl Alcohol:	(oral, rat)=5046mg/kg; LD50(oral, mouse)=3600 mg/kg;	N/A	(rat)= 12,000ppm
Acetone:	LD50 (oral, rat)=5800mg/kg; LD50 (oral mouse)=3000 mg/kg;	N/A	(rat)= 20,702 ppm

Skin corrosion/irritation

Remarks: Repeated exposure with the mixture may cause skin dryness or cracking.

Serious eye damage/eye irritation

Mixture causes serious eye irritation

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

Mixture may cause drowsiness or dizziness

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Chronic effects

No data available

11.2 Additional Information

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bio accumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

12.7 Other adverse effects

Discharge into the environment must be avoided.

Product	Species	Test Results
acetone	Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 6.210 mg/l - 96 h (OECD Test Guideline 203)
	Toxicity to daphnia and other aquatic invertebrates	static test LC50 - Daphnia pulex (Water flea) - 8.800 mg/l - 48 h Remarks: (ECHA)
	Toxicity to algae	static test NOEC - M.aeruginosa - 530 mg/l - 8 d (DIN 38412) Remarks: (maximum permissible toxic concentration) (IUCLID)
	Toxicity to bacteria	static test EC50 - activated sludge - 61,15 mg/l - 30 min (OECD Test Guideline 209)
	Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	flow-through test NOEC - Daphnia magna (Water flea) - 2.212 mg/l - 28 d Remarks: (ECHA)

Product	Species	Test Results
isopropyl alcohol	Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 9,640 mg/l - 96 h (OECD Test Guideline 203)
	Toxicity to daphnia and other aquatic	EC50 - Daphnia magna (Water flea) - 13,299 mg/l - 48 h Remarks: (IUCLID)
	Toxicity to algae	IC50 - Desmodesmus subspicatus (green algae) - > 1,000 mg/l - 72 h Remarks: (IUCLID)
	Toxicity to bacteria	EC5 - Pseudomonas putida - 1,050 mg/l - 16 h Remarks: (Lit.)

Persistence and Degradability

Biodegradability	aerobic - Exposure time 5 d Result: 53 % - Readily biodegradable. (Directive 67/548/EEC, Annex V, C.6)
Theoretical oxygen demand	2,400 mg/g Remarks: (Lit.)
Ratio BOD/ThBOD	49 % Remarks: (IUCLID)

Bioaccumulation/ Accumulation

No bioaccumulation is to be expected (log Pow <= 4)

Mobility

No data available

Other adverse effects

No data available

13. Disposal considerations

13.1 Waste Disposal Methods

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

14.1

DOT (US)

UN number:	UN1219
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (acetone, ethanol)
Hazard Class	3
Subsidiary risk	N/A
Packaging Group	II
Environmental hazards	No

14.2 IMDG

UN number:	UN1219
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (acetone, ethanol)
Hazard Class	3
Subsidiary risk	N/A
Packaging Group	II
Marine Pollutant	No

14.3 IATA

UN number:	UN1219
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (acetone, ethanol)
Hazard Class	3
Subsidiary risk	N/A
Packaging Group	II
Environmental hazards	No

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Authorizations and/or restrictions on use

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors
This material does not contain any components with a section 302 EHS TPQ.

Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

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. Lab Alley shall not be held liable for any damage resulting from handling or from contact with the above product.