

# SAFETY DATA SHEET

Version 6.15 Revision Date 05/05/2025 Print Date 05/06/2025

### **SECTION 1. IDENTIFICATION**

#### 1.1 Product identifiers

Product name : Reagent alcohol

Product Number : 270741
Brand : SIGALD
CAS-No. : 64-17-5

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

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption

(40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by

MilliporeSigma.

# 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 2

Eye irritation : Category 2A

SIGALD - 270741

Page 1 of 20



Specific target organ toxicity - single exposure

: Category 2 (Eyes, Central nervous system)

### Other hazards

None known.

### **GHS** label elements

Hazard pictograms







Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H371 May cause damage to organs (Eyes, Central

nervous system).

Precautionary Statements : **Prevention:** 

P210 Keep away from heat/ sparks/ open flames/ hot

surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/

lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static

discharge.

P260 Do not breathe mist or vapors.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this

product.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/ shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P308 + P311 IF exposed or concerned: Call a POISON

CENTER/ doctor.

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.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

SIGALD - 270741 Page 2 of 20

P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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

Substance / Mixture : Substance

### Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
ethanol	64-17-5*	>= 90 - <= 100	-
Methanol	67-56-1*	>= 5 - < 10	-
2-Propanol	67-63-0*	>= 5 - < 10	-

<sup>\*</sup> Indicates that the identifier is a CAS No.

Actual concentration is withheld as a trade secret

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

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

attendance.

If inhaled : After inhalation: fresh air. Immediately call in

physician.

If breathing stops: immediately apply artificial

respiration, if necessary also oxygen.

In case of skin contact : In case of skin contact: Take off immediately all

contaminated clothing. Rinse skin with water/ shower.

Call a physician immediately.

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.

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

Protection of first-aiders : For personal protection see section 8.

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Millipore SiGMa Notes to physician : No data available

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing

media

: Foam

Carbon dioxide (CO2)

Dry powder

Unsuitable extinguishing

media

: For this substance/mixture no limitations of

extinguishing agents are given.

Specific hazards during

fire fighting

: Combustible.

Pay attention to flashback.

Vapors are heavier than air and may spread along

floors.

Development of hazardous combustion gases or

vapours possible in the event of fire.

Forms explosive mixtures with air at ambient

temperatures.

Hazardous combustion

products

: Carbon oxides

Specific extinguishing

methods

: No data available

Further information : Re

: Remove container from danger zone and cool with

water.

Prevent fire extinguishing water from contaminating

surface water or the ground water system.

Special protective equipment for fire-

fighters

: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SIGALD - 270741

Page 4 of 20

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe vapors, aerosols.

Avoid substance contact. Ensure adequate ventilation.

Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency

procedures, consult an expert. Advice for emergency responders: For personal protection see section 8.

Environmental precautions

: Do not let product enter drains.

Risk of explosion.

Methods and materials for containment and cleaning up

: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7

and 10).

Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected

area.

### **SECTION 7. HANDLING AND STORAGE**

For precautions see section 2.2.

Advice on protection against fire and explosion

: Keep away from open flames, hot surfaces and

sources of ignition.

Take precautionary measures against static discharge.

Advice on safe handling

: Work under hood. Do not inhale substance/mixture.

Avoid generation of vapours/aerosols.

Further information on storage conditions

: Keep container tightly closed in a dry and well-

ventilated place.

Keep away from heat and sources of ignition.

Storage class : 3, Flammable liquids

Recommended storage

temperature

: Recommended storage temperature see product label.

Further information on

storage stability

: Moisture sensitive.

Handle and store under inert gas.

Packaging material : Suitable material: Mild Steel Drum

# **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

# Ingredients with workplace control parameters

SIGALD - 270741

Page 5 of 20



Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible	Basis
		exposure)	concentration	
ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
Methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-1
2-Propanol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1

# **Biological occupational exposure limits**

Components	CAS-No.	Control parameter s	Biological specimen	Samplin g time	Permissibl e concentrat ion	Basis
Methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposur e ceases)	15 mg/l	ACGIH BEI
2-Propanol	67-63-0	Acetone	Urine	End of shift at end of workwe ek	40 mg/l	ACGIH BEI

**Engineering measures** : No data available

# **Personal protective equipment**

Respiratory protection : required when vapours/aerosols are generated.

SIGALD - 270741 Page 6 of 20



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.

Recommended Filter

type:

: Filter type ABEK

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

### Hand protection

Material : butyl-rubber
Break through time : 480 min
Glove thickness : 0.3 mm
Protective index : Full contact

Manufacturer : Butoject® (KCL 897 / Aldrich Z677647, Size M)

Material : Nitrile rubber
Break through time : 30 min
Glove thickness : 0.2 mm

Protective index : Splash contact

Manufacturer : Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

Manufacturer : data source: KCL GmbH, D-36124 Eichenzell, phone

+49 (0)6659 87300, e-mail sales@kcl.de, test

method: EN374

Remarks : 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.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC 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.

Eye protection : Use equipment for eye protection tested and

approved under appropriate government standards

such as NIOSH (US) or EN 166(EU).

SIGALD - 270741 Page 7 of 20



Safety glasses

Skin and body protection : Flame retardant antistatic protective clothing.

Hygiene measures : Change contaminated clothing. Preventive skin

protection recommended. Wash hands after working

with substance.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : colorless

Odor : No data available

Odor Threshold : No data available

pH : ca. 7

Melting point/ range : -202 °F / -130 °C

Boiling point/boiling range : 172 °F / 78 °C (1,013 hPa)

Flash point :  $48 \, ^{\circ}\text{F} / 9 \, ^{\circ}\text{C}$ 

Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : No data available

Burning rate : No data available

Self-ignition : 684 °F / 362 °C

Upper explosion limit / Upper flammability limit

on limit / : Upper flammability limit

24.5 %(V)

Lower explosion limit / Lower flammability limit : Lower flammability limit

3.3 %(V)

Vapor pressure : 59.5 hPa (68 °F / 20 °C)

Relative vapor density : No data available

SIGALD - 270741 Page 8 of 20

Relative density : No data available

Density : 0.785 g/cm3

Water solubility : No data available

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available

Decomposition temperature

: No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Flow time : No data available

Explosive properties : Not classified as explosive.

Oxidizing properties : none

Molecular weight : 46.07 g/mol

Particle characteristics

Particle size : No data available

# **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Vapors may form explosive mixture with air.

Chemical stability : Reacts with air to form peroxides.

The product is chemically stable under standard

ambient conditions (room temperature) .

Possibility of hazardous

reactions

: No data available

Conditions to avoid : Warming.

Incompatible materials : Aluminum

Acids

Oxidizing agents Alkali metals

Halogenated compounds

Ammonia Acid chlorides

SIGALD - 270741 Page 9 of 20



Acid anhydrides Reducing agents Peroxides

Hazardous decomposition : In the event of fire: see section 5

products

### **SECTION 11. TOXICOLOGICAL INFORMATION**

### 11.1 Information on toxicological effects

### **Acute toxicity**

Oral: No data available

Acute toxicity estimate Oral - 2,002 mg/kg

(Calculation method)

Inhalation: No data available

Acute toxicity estimate Inhalation - 4 h - 57.27 mg/l - vapor(Calculation method)

Symptoms: Possible symptoms:, mucosal irritations

Dermal: No data available

Acute toxicity estimate Dermal - > 5,000 mg/kg

(Calculation method)

### Skin corrosion/irritation

No data available

# Serious eye damage/eye irritation

Remarks: Mixture causes serious eye irritation.

# Respiratory or skin sensitization

No data available

## Germ cell mutagenicity

No data available

# Carcinogenicity

IARC: No ingredient 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 ingredient 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

on OSHA's list of regulated carcinogens.

# **Reproductive toxicity**

No data available

### Specific target organ toxicity - single exposure

Mixture may cause damage to organs. - Eyes, Central nervous system

# Specific target organ toxicity - repeated exposure

No data available

# **Aspiration hazard**

No data available

SIGALD - 270741

Page 10 of 20



### 11.2 Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., Central nervous system depression, Gastrointestinal disturbance, Nausea, Dizziness, Headache, narcosis, May cause convulsions. Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence

Kidney - Irregularities - Based on Human Evidence

### **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

# **Components:**

### ethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)):

15,300 mg/l

End point: mortality Exposure time: 96 h

Test Type: flow-through test Analytical monitoring: yes

Method: US-EPA

Toxicity to daphnia and

other aquatic invertebrates

: LC50 (Ceriodaphnia dubia (water flea)): 5,012 mg/l

End point: mortality Exposure time: 48 h Test Type: static test Remarks: (ECHA)

Toxicity to algae/aquatic

plants

ErC50 (Chlorella vulgaris (Fresh water algae)): 275

mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

: NOEC (Danio rerio (zebra fish)): 250 mg/l

Exposure time: 120 h Test Type: semi-static test

Remarks: (ECHA)

Toxicity to daphnia and

other aquatic

invertebrates (Chronic

toxicity)

: NOEC (Daphnia magna (Water flea)): 9.6 mg/l

End point: reproduction rate

Exposure time: 9 d

Test Type: semi-static test

Remarks: (ECHA)

SIGALD - 270741 Page 11 of 20

Toxicity to : IC50 (activated sludge): > 1,000 mg/l

microorganisms Exposure time: 3 h
Test Type: static test

Analytical monitoring: yes
Method: OECD Test Guideline 209

The value is given in analogy to the following

substances: Methanol

**Methanol:** 

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill)): 15,400.0 mg/l

End point: mortality Exposure time: 96 h

Test Type: flow-through test Analytical monitoring: yes

Method: US-EPA

Toxicity to daphnia and

other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 18,260 mg/l

End point: Immobilization Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: ErC50 (Pseudokirchneriella subcapitata (green

algae)): ca. 22,000.0 mg/l Exposure time: 96 h

Test Type: static test

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

: NOEC (Oryzias latipes (Orange-red killifish)): 7,900

mg/l

Exposure time: 200 h Remarks: (External MSDS)

Toxicity to

: IC50 (activated sludge): > 1,000 mg/l

microorganisms Exposure time: 3 h
Test Type: static test
Analytical monitoring: yes

Method: OECD Test Guideline 209

2-Propanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9,640

mg/l

End point: mortality Exposure time: 96 h

Test Type: flow-through test Analytical monitoring: yes

Method: OECD Test Guideline 203

Toxicity to daphnia and : EC50 (Daphnia magna (Water flea)): 13,299 mg/l

SIGALD - 270741 Page 12 of 20

other aquatic Exposure time: 48 h invertebrates Remarks: (IUCLID)

Toxicity to algae/aquatic

plants

: IC50 (Desmodesmus subspicatus (green algae)): >

1,000 mg/l

Exposure time: 72 h Remarks: (IUCLID)

Toxicity to : EC5 (Pseudomonas putida): 1,050 mg/l

microorganisms Exposure time: 16 h

Remarks: (Lit.)

# Persistence and degradability

# **Components:**

### ethanol:

Biodegradability : aerobic

Inoculum: activated sludge, non-adapted

Result: Readily biodegradable. Biodegradation: ca. 95 % Exposure time: 15 d

Method: OECD Test Guideline 301E

Biochemical Oxygen

Demand (BOD)

: 930 - 1,670 mg/g Incubation time: 5 d

Remarks: (Lit.)

ThOD : 2,100 mg/g

Remarks: (Lit.)

**Methanol:** 

Biodegradability : Result: Readily biodegradable.

Biodegradation: 99 % Exposure time: 30 d

Method: OECD Test Guideline 301D

Biochemical Oxygen

Demand (BOD)

: 600 - 1,120 mg/g Incubation time: 5 d Remarks: (IUCLID)

Chemical Oxygen : 1,420 mg/g

Demand (COD) Remarks: (IUCLID)

ThOD : 1,500 mg/g

Remarks: (Lit.)

BOD/ThOD : 76 %

Remarks: Closed Bottle test

(IUCLID)

SIGALD - 270741

Stability in water : Hydrolysis: 83 - 91 % at 19 °C(72 h)

Remarks: Hydrolyzes on contact with water.

Hydrolyzes readily.

Degradation half life: 2.2 yr

Remarks: reaction with hydroxyl radicals

(IUCLID)

Photodegradation : Degradation (direct photolysis): 50 % Degradation

half life: 17.2 d

2-Propanol:

Biodegradability : aerobic

Inoculum: Sewage sludge Result: Readily biodegradable.

Biodegradation: 53 % Exposure time: 5 d

Method: Directive 67/548/EEC, Annex V, C.6

ThOD : 2,400 mg/g

Remarks: (Lit.)

BOD/ThOD : 49 %

Remarks: (IUCLID)

### **Bioaccumulative potential**

### **Components:**

ethanol:

Bioaccumulation : Remarks: Due to the distribution coefficient n-

octanol/water, accumulation in organisms is not

expected.

Partition coefficient: n-

octanol/water

: log Pow: -0.35 (75 °F / 24 °C)

pH: 7.4

Method: OECD Test Guideline 107

Remarks: Bioaccumulation is not expected.

**Methanol:** 

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 1.0

Exposure time: 72 d Temperature: 68 °F / 20 °C Concentration: 5 mg/l

Partition coefficient: n-

octanol/water

: log Pow: -0.77 (77 °F / 25 °C)

Method: (experimental)

Remarks: (HSDB)

Bioaccumulation is not expected.

SIGALD - 270741



2-Propanol:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log

Pow <= 4).

Partition coefficient: n-

octanol/water

: log Pow: 0.05

Method: OECD Test Guideline 107

Remarks: Bioaccumulation is not expected.

Mobility in soil

Components:

**Methanol:** 

Stability in soil : Remarks: Will not adsorb on soil.

Other adverse effects

**Product:** 

Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part

82 Protection of Stratospheric Ozone - CAA Section

602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR

82, Subpt. A, App.A + B).

**Components:** 

ethanol:

Results of PBT and vPvB

assessment

: Substance does not meet the criteria for PBT or  $\nu P \nu B$ 

according to Regulation (EC) No 1907/2006, Annex

XIII.

Methanol:

Results of PBT and vPvB

assessment

: Substance is not persistent, bioaccumulative, and

toxic (PBT).

Additional ecological

information

: Avoid release to the environment.

2-Propanol:

Results of PBT and vPvB

assessment

Substance is not persistent, bioaccumulative, and toxic (PBT). Substance is not very persistent and very

bioaccumulative (vPvB).

: Substance does not meet the criteria for PBT or vPvB

according to Regulation (EC) No 1907/2006, Annex

XIII.

SIGALD - 270741

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Page 15 of 20

### **SECTION 13. DISPOSAL CONSIDERATIONS**

# **Disposal methods**

Waste from residues : 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**

### **International Regulations**

IATA-DGR

UN/ID No. : UN 1170

Proper shipping name : Ethanol solution

Class : 3 Packing group : II

Labels : Class 3 - Flammable liquids

Packing instruction (cargo: 364

aircraft)

Packing instruction : 353

(passenger aircraft)

IMDG-Code

UN number : UN 1170

Proper shipping name : ETHANOL SOLUTION

Class : 3 Packing group : II Labels : 3

EmS Code : F-E, S-D Marine pollutant : no

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### **National regulation**

49 CFR Road

UN/ID/NA number : UN 1170

Proper shipping name : Ethanol solutions

Class : 3 Packing group : II

Labels : Class 3 - Flammable liquids

ERG Code : 127 Marine pollutant : no

Poison Inhalation Hazard : No

SIGALD - 270741

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# **Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### **SECTION 15. REGULATORY INFORMATION**

### **CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

# **SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

# **SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 : Fire Hazard

**Hazards** Acute Health Hazard

Chronic Health Hazard

**SARA 313** : The following components are subject to reporting

levels established by SARA Title III, Section 313:

Methanol 67-56-1 >= 5 - < 10 %

2-Propanol 67-63-0 >= 5 - < 10 %

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

 ethanol
 64-17-5 >= 90 - <= 100 % 

 Methanol
 67-56-1 >= 5 - < 10 % 

 2-Propanol
 67-63-0 >= 5 - < 10 % 

### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

SIGALD - 270741

Page 17 of 20



### **US State Regulations**

### **Massachusetts Right To Know**

ethanol	64-17-5
Methanol	67-56-1
2-Propanol	67-63-0

# Pennsylvania Right To Know

 ethanol
 64-17-5

 Methanol
 67-56-1

 2-Propanol
 67-63-0

### **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

### **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

### **Washington Chemicals of High Concern**

Product does not contain any listed chemicals

### California Prop. 65

WARNING: This product can expose you to chemicals including Methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

# The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

### **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

### **SECTION 16. OTHER INFORMATION**

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-

1 Limits for Air Contaminants8-hour, time-weighted average

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-

hour workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be

exceeded at any time during a workday

OSHA Z-1 / TWA : 8-hour time weighted average

SIGALD - 270741



AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA -Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Decomposition Temperature; SARA Superfund Amendments Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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SIGALD - 270741 Page 19 of 20



SIGALD - 270741

Page 20 of 20

