SIGMA-ALDRICH

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SAFETY DATA SHEET

Version 5.3 Revision Date 07/15/2015 Print Date 06/20/2016

1. PR	ODUCT AND COMPANY ID	EN'	TIFICATION
1.1	Product identifiers Product name	:	Reagent Alcohol,
	Product Number Brand	:	793183 Sigma-Aldrich
1.2	.2 Relevant identified uses of the substance or mixture and uses advised against		ne substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Manufacture of substances
1.3	3 Details of the supplier of the safety data sheet		safety data sheet
	Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
	Telephone Fax	:	+1 800-325-5832 +1 800-325-5052
1.4	Emergency telephone nur	nbe	er

Emergency Phone # : (314) 776-6555

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 Acute toxicity, Oral (Category 4), H302 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 1), H370

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 H302 H319 H370	Highly flammable liquid and vapour. Harmful if swallowed. Causes serious eye irritation. Causes damage to organs.
Precautionary statement(s) P210 P233 P240 P241 P242 P243 P260	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

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.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you
	feel unwell. Rinse mouth.
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.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/ physician.
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.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Component		Classification	Concentration
Ethanol			
CAS-No. EC-No. Index-No.	64-17-5 200-578-6 603-002-00-5	Flam. Liq. 2; Eye Irrit. 2A; H225, H319	>= 70 - < 90 %
2-Propanol			
CAS-No. EC-No. Index-No.	67-63-0 200-661-7 603-117-00-0	Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319, H336	>= 5 - < 10 %
Methanol			
CAS-No.	67-56-1	Flam. Liq. 2; Acute Tox. 3;	>= 5 - < 10 %
EC-No.	200-659-6	STOT SE 1; H225, H301 +	
Index-No.	603-001-00-X	H311 + H331, H370	
Registration number	01-2119433307-44-XXXX		

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. 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

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Ethanol	64-17-5	TWA	1,000.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation		

		Confirmed a	animal carcinogen	with unknown relevance to humans
		TWA	1,000 ppm	USA. OSHA - TABLE Z-1 Limits for
			1,900 mg/m3	Air Contaminants - 1910.1000
		TWA	1,000 ppm	USA. Occupational Exposure Limits
			1,900 mg/m3	(OSHA) - Table Z-1 Limits for Air
			-	Contaminants
		The value in	n mg/m3 is approx	imate.
		TWA	1,000.000000	USA. Occupational Exposure Limits
			ppm	(OSHA) - Table Z-1 Limits for Air
			1,900.000000	Contaminants
			mg/m3	
		The value in	n mg/m3 is approx	imate
		TWA	1,000.000000	USA. NIOSH Recommended
			ppm	Exposure Limits
			1,900.000000	
			mg/m3	
		STEL	1,000.000000	USA. ACGIH Threshold Limit Values
		SIEL		
			ppm	(TLV)
			irotony Troot irritot	l
			biratory Tract irritat	
0 December 1	07.00.0			with unknown relevance to humans
2-Propanol	67-63-0	TWA	200.000000	USA. ACGIH Threshold Limit Values
			ppm	(TLV)
			vous System impa	
			piratory Tract irritat	ion
		Eye irritatio		
				a Biological Exposure Index or Indices
		(see BEI® s		
		Not classifia	able as a human ca	arcinogen
		TWA	200 ppm	USA. ACGIH Threshold Limit Values
				(TLV)
		Central Ner	vous System impa	irment
		Upper Resp	piratory Tract irritat	ion
		Eye irritatio		
				a Biological Exposure Index or Indices
		(see BEI® s		0
			able as ́a human ca	
		Not classifia		arcinoden
		Not classifia STEL	400 ppm	USA. ACGIH Threshold Limit Values
		STEL	400 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL Central Ner	400 ppm vous System impa	USA. ACGIH Threshold Limit Values (TLV) irment
		STEL Central Ner Upper Resp	400 ppm vous System impa piratory Tract irritat	USA. ACGIH Threshold Limit Values (TLV) irment
		STEL Central Ner Upper Resp Eye irritatio	400 ppm vous System impa biratory Tract irritat n	USA. ACGIH Threshold Limit Values (TLV) irment ion
		STEL Central Ner Upper Resp Eye irritatio Substances	400 ppm vous System impa biratory Tract irritat n s for which there is	USA. ACGIH Threshold Limit Values (TLV) irment ion
		STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s	400 ppm vous System impa biratory Tract irritat n s for which there is section)	USA. ACGIH Threshold Limit Values (TLV) irment ion a Biological Exposure Index or Indices
		STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia	400 ppm vous System impa piratory Tract irritat n for which there is section) able as a human ca	USA. ACGIH Threshold Limit Values (TLV) irment ion a Biological Exposure Index or Indices arcinogen
		STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s	400 ppm vous System impa biratory Tract irritat n s for which there is section) able as a human ca 400.000000	USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices arcinogen USA. ACGIH Threshold Limit Values
		STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia	400 ppm vous System impa piratory Tract irritat n for which there is section) able as a human ca	USA. ACGIH Threshold Limit Values (TLV) irment ion a Biological Exposure Index or Indices arcinogen
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		STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia STEL Central Ner	400 ppm vous System impa biratory Tract irritat n for which there is section) able as a human ca 400.000000 ppm vous System impa	USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices arcinogen USA. ACGIH Threshold Limit Values (TLV)
		STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia STEL Central Ner Upper Resp	400 ppm vous System impa biratory Tract irritat n for which there is section) able as a human ca 400.000000 ppm vous System impa biratory Tract irritat	USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices arcinogen USA. ACGIH Threshold Limit Values (TLV)
		STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia STEL Central Ner Upper Resp Eye irritatio	400 ppm vous System impa biratory Tract irritat n for which there is section) able as a human ca 400.000000 ppm vous System impa biratory Tract irritat n	USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices arcinogen USA. ACGIH Threshold Limit Values (TLV) irrment ion
		STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia STEL Central Ner Upper Resp Eye irritatio Substances	400 ppm vous System impa biratory Tract irritat n for which there is section) able as a human ca 400.000000 ppm vous System impa biratory Tract irritat n for which there is	USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices arcinogen USA. ACGIH Threshold Limit Values (TLV) irrment ion
		STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s	400 ppm vous System impa biratory Tract irritat n for which there is section) able as a human ca 400.000000 ppm vous System impa biratory Tract irritat n for which there is section)	USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices arcinogen USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices
		STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia	400 ppm vous System impa biratory Tract irritat n for which there is section) able as a human ca 400.000000 ppm vous System impa biratory Tract irritat n for which there is	USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices arcinogen USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices arcinogen
		STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s	400 ppm vous System impa biratory Tract irritat n for which there is section) able as a human ca 400.000000 ppm vous System impa biratory Tract irritat n for which there is section)	USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices arcinogen USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices arcinogen
		STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia	400 ppm vous System impa biratory Tract irritat n s for which there is section) able as a human ca 400.000000 ppm vous System impa biratory Tract irritat n s for which there is section) able as a human ca	USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices arcinogen USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices
		STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia	400 ppm vous System impa biratory Tract irritat n s for which there is section) able as a human ca 400.000000 ppm vous System impa biratory Tract irritat n s for which there is section) able as a human ca 400.000000	USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices arcinogen USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices arcinogen USA. Occupational Exposure Limits
		STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia STEL Central Ner Upper Resp Eye irritatio Substances (see BEI® s Not classifia	400 ppm vous System impa biratory Tract irritat n s for which there is section) able as a human ca 400.000000 ppm vous System impa biratory Tract irritat n s for which there is section) able as a human ca 400.000000 ppm	USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices arcinogen USA. ACGIH Threshold Limit Values (TLV) irrment ion a Biological Exposure Index or Indices arcinogen USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air

		TWA	400.000000 ppm 980.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	500.000000 ppm 1,225.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
Methanol	67-56-1	TWA	200.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		(see BEI® s Danger of cu	for which there is ection) utaneous absorpti	
		STEL	250.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		(see BEI® s	for which there is	a Biological Exposure Index or Indices
		TWA	200.000000 ppm 260.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for	dermal absorption	n
		ST	250.000000 ppm 325.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential for	dermal absorptio	n
		TWA	200.000000 ppm 260.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in	nmg/m3 is approx	imate.

Biological occupational exposure limits

<u>Diological cocapa</u>					
Component	CAS-No.	Parameters	Value	Biological specimen	Basis
2-Propanol	67-63-0	Acetone	40.0000 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at	end of work	week	
Methanol	67-56-1	Methanol	15.0000 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
		End of shift (A	s soon as po	ssible after exposure	e ceases)

8.2 Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Sigma-Aldrich - 793183

Personal protective equipment

Eye/face protection

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

Skin protection

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.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

cup

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	13 - 16 °C (55 - 61 °F) - closed
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
I)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available

t) Oxidizing properties No data available

9.2 Other safety information No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability Stable under recommended storage conditions.

- **10.3 Possibility of hazardous reactions** Vapours may form explosive mixture with air.
- **10.4 Conditions to avoid** Heat, flames and sparks.
- **10.5** Incompatible materials No data available

10.6 Hazardous decomposition products Other decomposition products - No data available In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitisation No data available

Germ cell mutagenicity

No data available

Carcinogenicity

- IARC: 3 Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)
- NTP: No component 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 identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Additional Information RTECS: Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence Kidney - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence (Ethanol) Kidney - Irregularities - Based on Human Evidence (2-Propanol) Stomach - Irregularities - Based on Human Evidence (Methanol)

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available
- 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
- **12.6 Other adverse effects** No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US) UN number: 1987 Class: 3 Proper shipping name: Alcohols Reportable Quantity (RQ):	·		
Poison Inhalation Hazard: No			
IMDG UN number: 1987 Class: 3 Proper shipping name: ALCOH		EMS-No: F-E, S-D	
IATA UN number: 1987 Class: 3 Proper shipping name: Alcohols			

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

CAS-No. Revision Date

Methanol 2-Propanol	67-56-1 67-63-0	2007-07-01 1987-01-01
SARA 311/312 Hazards Fire Hazard, Acute Health Hazard, Chronic Health Hazard		
Massachusetts Right To Know Components		
Ethanol 2-Propanol Methanol	CAS-No. 64-17-5 67-63-0 67-56-1	Revision Date 2007-03-01 1987-01-01 2007-07-01
Pennsylvania Right To Know Components		
Ethanol Water 2-Propanol Methanol	CAS-No. 64-17-5 7732-18-5 67-63-0 67-56-1	Revision Date 2007-03-01 1987-01-01 2007-07-01
New Jersey Right To Know Components		
Ethanol Water 2-Propanol Methanol	CAS-No. 64-17-5 7732-18-5 67-63-0 67-56-1	Revision Date 2007-03-01 1987-01-01 2007-07-01
California Prop. 65 Components WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Methanol	CAS-No. 67-56-1	Revision Date 2012-03-16

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Eye Irrit. Flam. Liq. H225 H301 + H311 + H331 H302 H319 H336 H370 STOT SE	Acute toxicity Eye irritation Flammable liquids Highly flammable liquid and vapour. Toxic if swallowed, in contact with skin or if inhaled Harmful if swallowed. Causes serious eye irritation. May cause drowsiness or dizziness. Causes damage to organs. Specific target organ toxicity - single exposure
HMIS Rating Health hazard: Chronic Health Haz Flammability: Physical Hazard	2
NFPA Rating Health hazard: Fire Hazard: Reactivity Hazard:	2 3 0

Further information

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Preparation Information

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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