

Classified as hazardous according to criteria of WorkSafe New Zealand

Section 1 - Identification

Product Name pH Universal indicator solution

Product Code AJA613, FSBU/0025/PB08

Address Thermo Fisher Scientific New Zealand Ltd

244 Bush Road, Albany, Auckland, New Zealand

Emergency Tel. CHEMTREC®

09 980 6780 or +64 9 980 6780

Telephone / Fax NumbersTel: 09 980 6700
Fax: 09 980 6788

E-mail address NZinfo@thermofisher.com

Recommended Use Laboratory chemicals.

Section 2 - Hazard(s) Identification

Classification under Work Safe New Zealand

3.1B - Flammable liquids: high hazard

6.4A - Substances that are irritating to the eye

Classified as hazardous according to criteria of WorkSafe New Zealand

HSNO Approval Number HSR002596

GHS Classification

Physical hazards

Flammable liquids Category 2

Health hazards

Serious Eye Damage/Eye Irritation Category 2

Environmental hazards

Based on available data, the classification criteria are not met

Label Elements

NZ-001145 Version 1 05-Jul-2018 Page 1/8



Signal Word Danger

Hazard Statements

H225 - Highly flammable liquid and vapor H319 - Causes serious eye irritation

Precautionary Statements

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P281 - Use personal protective equipment as required

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

P308 + P313 - IF exposed or concerned: Get medical advice/ attention

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

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

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

Other information

No information available

Section 3 - Composition and Information on Ingredients

Component	CAS-No	Weight %
Ethyl alcohol	64-17-5	30-60

Section 4 - First Aid Measures

Inhalation Move to fresh air.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

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

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

Breathing difficulties. Inhalation of high vapor concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically.

NZ-001145 Version 1 05-Jul-2018 Page 2/8

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media

Cool closed containers exposed to fire with water spray.

Extinguishing media which must not be used for safety reasons

No information available.

Hazardous Combustion Products

Specific Hazards Arising from the Chemical

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 - Accidental Release Measures

Emergency procedures

Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions

Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Up

Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

Section 7 - Handling and Storage

Precautions for Safe Handling

Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

AS 1940-2004 - The storage and handling of flammable and combustible liquids

Section 8 - Exposure Controls and Personal Protection

Exposure limits

NZ - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

Component	New Zealand WEL
Ethyl alcohol	TWA: 1000 ppm
·	TWA: 1880 mg/m ³

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

NZ-001145 Version 1 05-Jul-2018 Page 3 / 8

Personal protective equipment

Eye Protection Safety glasses with side-shields (Australian/New Zealand Standard AS/NZS 1337 - Eye

protectors for Industrial applications)

Hand Protection Protective gloves

Γ	Glove material Breakthrough time		Glove thickness	AUS/NZ Standard	Glove comments		
١	Disposable gloves.	See manufacturers	-	AS/NZS 2161.1	(minimum requirement)		
		recommendations					

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Repiratory ProtectionUse an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

and maintenance of repiratory protective devices (or AUS/NZ equivalent)

When RPE is used a face piece Fit Test should be conducted

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

system.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Green
Physical State Liquid

Odor No information available

Odor Threshold No data available pH Not applicable

Melting Point/Range-117 °C / -178.6 °FSoftening PointNo data availableBoiling Point/Range78 °C / 172.4 °FFlash Point13 °C / 55.4 °F

Flash Point 13 °C / 55.4 °F Method - No information available

Evaporation Rate

No data available

Flammability (solid,gas) Not applicable Liquid Explosion Limits No data available

Vapor Pressure No data available

Vapor Density No data available (Air = 1.0)

Specific Gravity / Density No data available

Bulk Density Not applicable Liquid

Water Solubility
Solubility
No information available
No information available

Partition Coefficient (n-octanol/water)

Component log Pow Ethyl alcohol -0.32

Autoignition TemperatureNo data availableDecomposition TemperatureNo data available

Viscosity No data available

Explosive PropertiesNo information available
Vapors may form explosive mixtures with air
No information available

NZ-001145 Version 1 05-Jul-2018 Page 4 / 8

Other information

Section 10 - Stability and Reactivity

Reactivity None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition.

Hazardous Decomposition Products None under normal use conditions.

Hazardous Polymerization No information available.

Section 11 - Toxicological Information

Information on Toxicological Effects

Product Information (a) acute toxicity;

> Based on available data, the classification criteria are not met Oral

Dermal No data available No data available Inhalation

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethyl alcohol	LD50 = 7060 mg/kg (Rat)		20000 ppm/10H (Rat)

No data available (b) skin corrosion/irritation;

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	Australia	New Zealand	New South Wales	Western Australia	IARC	EU	UK	Germany
Ethyl alcohol					Group 1			

(a) reproductive toxicity: No data available (h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

None known. **Target Organs** (j) aspiration hazard; No data available

Symptoms / effects, both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

delayed

tiredness, nausea and vomiting

NZ-001145 05-Jul-2018 Page 5/8 Version 1

Section 12 - Ecological Information

Ecotoxicity effects

Contains a substance which is:. Toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Ethyl alcohol	Fathead minnow	EC50 = 9268 mg/L/48h	EC50 (72h) = 275 mg/l	Photobacterium
	(Pimephales promelas)	EC50 = 10800 mg/L/24h	(Chlorella vulgaris)	phosphoreum:EC50 =
	LC50 = 14200 mg/l/96h			34634 mg/L/30 min
				Photobacterium
				phosphoreum:EC50 =
				35470 mg/L/5 min

Persistence and Degradability

Persistence

No information available

Persistence is unlikely, based on information available.

Degradation in sewage treatment plant **Bioaccumulative Potential**

Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)					
Ethyl alcohol	-0.32	No data available					
Mobility	The product contains volatile organic compounds (VOC) which will evaporate easily from all						
	surfaces. Will likely be mobile in the environm	ent due to its volatility. Disperses rapidly in					
	air						
Endocrine Disruptor Information	This product does not contain any known or so	uspected endocrine disruptors					
Persistent Organic Pollutant	This product does not contain any known or so	uspected substance					
Ozone Depletion Potential	This product does not contain any known or se	uspected substance					

Section 13 - Disposal Considerations

Waste from Residues / Unused **Products**

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure

conformity with all applicable regulations.

Contaminated Packaging

Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and

empty container away from heat and sources of ignition.

Other Information

Disposal agencies or waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Regulations . Waste codes should be assigned by the user based on the application for which the product was used. Can be incinerated, when in compliance with local regulations. Do not dispose of waste into sewer.

Section 14 - Transport Information

IMDG/IMO

UN-No

Proper Shipping Name FLAMMABLE LIQUID, N.O.S.

Technical Shipping Name (CONTAINS METHYLATED SPIRITS) 3

Hazard Class Packing Group Ш

NZS 5433:2012

UN-No UN1993

Proper Shipping Name FLAMMABLE LIQUID, N.O.S.

Technical Shipping Name (CONTAINS METHYLATED SPIRITS) 3

Hazard Class Packing Group Ш

NZ-001145 05-Jul-2018 Version 1 Page 6/8

Component	Hazchem Code
Ethyl alcohol	2YE
64-17-5 (30-60)	2Y

IATA

UN-No UN1993

Proper Shipping Name FLAMMABLE LIQUID, N.O.S.

(CONTAINS METHYLATED SPIRITS) **Technical Shipping Name Hazard Class Packing Group** Ш

No hazards identified **Environmental hazards**

No special precautions required **Special Precautions**

Additional information None known

Section 15 - Regulatory Information

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

Component	HSNO Approval Number		
Ethyl alcohol	HSR001144		

International Inventories X = listed

	Component	NZIoC	AICS	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	KECL
Г	Ethyl alcohol	Х	Х	200-578-	-	Х	Х	-	Χ	Χ	Х	Χ
	•			6								

requirements

Prohibition or notification/licensing Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

Section 16 - Other Information

This safety data sheet complies with the requirements of WorkSafe New Zealand Regulations

<u>Legen</u>d

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - Chinese Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

ICAO/IATA - International Civil Aviation Organization/International Air **Transport Association**

MARPOL - International Convention for the Prevention of Pollution from

NZS 5433:2012 - Transport of Dangerous Goods on Land

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% WEL - Workplace Exposure Limit **DNEL** - Derived No Effect Level

POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative

VOC - Volatile Organic Compounds

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists

PNEC - Predicted No Effect Concentration

IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

LC50 - Lethal Concentration 50% ATE - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment NOEC - No Observed Effect Concentration

BCF - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

NZ-001145 Version 1 05-Jul-2018 Page 7/8

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards

Health Hazards

Environmental hazards

On basis of test data
Calculation method
Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Revision Date 05-Jul-2018
Revision Summary Update to Format.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

NZ-001145 Version 1 05-Jul-2018 Page 8/8