

**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L, BDH1156-5GL)****00000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L, BDH1156-5GL)

MSDS Number : 00000011694

Product Use Description : Solvent

Manufacturer : Honeywell  
1953 South Harvey Street  
Muskegon, MI 49442

Manufactured for : VWR International LLC  
Radnor Corporate Center  
Building One  
Suite 200  
100 Matsonford Road  
Radnor PA 19087

For more information call : (Monday-Friday, 8.00am-5:00pm)  
1-800-932-5000

In case of emergency call : (24 hours/day, 7 days/week)  
1-800-424-9300(USA Only)  
**For Transportation Emergencies:**  
1-800-424-9300 (CHEMTREC - Domestic)  
1-613-966-6666 (CANUTEC - Canada)

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

Form : liquid, clear

Color : colourless

Odor : mild alcohol-like

Hazard Summary : Flammable. In use, may form flammable/explosive vapour-air mixture. May be fatal if swallowed. May be fatal if inhaled. May be harmful if absorbed through skin. Irritating to eyes, respiratory system and skin. May cause blindness. The product


**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L,  
BDH1156-5GL)**
**000000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

may be absorbed through the skin. Repeated exposure may cause skin dryness or cracking. This product may cause adverse reproductive effects. Possible risk of harm to the unborn child. Avoid exposure to pregnant women especially. Cannot be made non-poisonous.

**Potential Health Effects**

- Skin** : Irritating to skin.  
The product may be absorbed through the skin.  
May cause systemic poisoning with symptoms paralleling those of inhalation.  
Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.
- Eyes** : Irritating to eyes.  
Causes itching, burning, redness and tearing.  
May cause blindness.  
May cause irreversible eye damage.
- Ingestion** : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.  
May cause systemic poisoning with symptoms paralleling those of inhalation.  
May cause blindness if swallowed.  
Repeated or prolonged exposure to the substance can produce liver damage.  
Repeated or prolonged exposure to the substance can produce kidney damage.
- Inhalation** : Causes respiratory tract irritation.  
Causes headache, drowsiness or other effects to the central nervous system.  
Vapours may cause drowsiness and dizziness.  
Inhalation of high vapour concentrations can cause CNS-depression and narcosis.  
May cause blindness.  
Repeated or prolonged exposure to the substance can produce liver damage.  
Repeated or prolonged exposure to the substance can produce kidney damage.
- Chronic Exposure** : Causes damage to the kidneys/ liver/ eyes/ brain/ respiratory system/ central nervous system through prolonged or repeated exposure.  
Prolonged or repeated skin contact with liquid may cause



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**000000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

defatting resulting in drying, redness and possible blistering.  
This product may cause adverse reproductive effects.  
Possible risk of harm to the unborn child.

Aggravated Medical Condition : Liver disorders  
Eye disorders  
Skin disorders  
Neurological disorders  
Kidney disorders  
Do not use if pregnant.

Target Organs : Eyes  
Skin  
Liver  
Kidney  
Blood  
Respiratory system  
Central nervous system  
Gastrointestinal tract

**Carcinogenicity**

ACGIH: Ethanol 64-17-5  
A3: Confirmed animal carcinogen

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

Chemical nature : Mixture

Chemical Name	CAS-No.	Concentration
Ethanol	64-17-5	90.00%
Methanol	67-56-1	5.00%
Isopropanol	67-63-0	5.00%

**SECTION 4. FIRST AID MEASURES**

Inhalation : Call a physician immediately. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is


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BDH1156-5GL)**
**00000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

present.

- Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician.
- Ingestion : Call a physician immediately. Do NOT induce vomiting. Immediate medical attention is required. Never give anything by mouth to an unconscious person.

**Notes to physician**

- Treatment : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Cool closed containers exposed to fire with water spray.
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during firefighting : Flammable.  
Vapours may form explosive mixtures with air.  
Vapours are heavier than air and may spread along floors.  
Vapors may travel to areas away from work site before igniting/flashing back to vapor source.  
In case of fire hazardous decomposition products may be produced such as:  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Formaldehyde
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L,  
BDH1156-5GL)****000000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions : Wear personal protective equipment.  
Immediately evacuate personnel to safe areas.  
Keep people away from and upwind of spill/leak.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Do not swallow.  
Do not breathe vapours or spray mist.  
Avoid contact with skin, eyes and clothing.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Discharge into the environment must be avoided.  
Do not flush into surface water or sanitary sewer system.  
Prevent product from entering drains.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Methods for cleaning up : Ventilate the area.  
No sparking tools should be used.  
Use explosion-proof equipment.  
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

**SECTION 7. HANDLING AND STORAGE****Handling**

- Handling : Wear personal protective equipment.  
Use only in well-ventilated areas.  
Keep container tightly closed.  
Do not smoke.  
Do not swallow.  
Do not breathe vapours or spray mist.  
Avoid contact with skin, eyes and clothing.
- Advice on protection against fire and explosion : Keep away from fire, sparks and heated surfaces.  
Take precautionary measures against static discharges.  
Ensure all equipment is electrically grounded before beginning transfer operations.  
Use explosion-proof equipment.  
Keep product and empty container away from heat and sources



**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L, BDH1156-5GL)**

**000000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

of ignition.  
No sparking tools should be used.  
No smoking.

**Storage**

Requirements for storage areas and containers : Store in area designed for storage of flammable liquids. Protect from physical damage.  
Keep containers tightly closed in a dry, cool and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Keep away from heat and sources of ignition.  
Keep away from direct sunlight.  
Store away from incompatible substances.  
Container hazardous when empty.  
Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

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

Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.

Engineering measures : Use with local exhaust ventilation.  
Prevent vapor buildup by providing adequate ventilation during and after use.

Eye protection : Do not wear contact lenses.  
Wear as appropriate:  
Safety glasses with side-shields  
If splashes are likely to occur, wear:  
Goggles or face shield, giving complete protection to eyes

Hand protection : Solvent-resistant gloves  
Gloves must be inspected prior to use.  
Replace when worn.

Skin and body protection : Wear as appropriate:  
Solvent-resistant apron  
Flame retardant antistatic protective clothing  
If splashes are likely to occur, wear:  
Protective suit



**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L, BDH1156-5GL)**

**000000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.  
For rescue and maintenance work in storage tanks use self-contained breathing apparatus.  
Use NIOSH approved respiratory protection.
- Hygiene measures : When using, do not eat, drink or smoke.  
Wash hands before breaks and immediately after handling the product.  
Keep working clothes separately.  
Remove and wash contaminated clothing before re-use.  
Do not swallow.  
Do not breathe vapours or spray mist.  
Avoid contact with skin, eyes and clothing.

**Exposure Guidelines—**

Components	CAS-No	Value	Control parameters	Update	Basis
Ethanol	64-17-5	STEL : Short term exposure limit	(1,000 ppm)	2009	ACGIH:US. ACGIH Threshold Limit Values

		REL : Recommended exposure limit (REL):	1,900 mg/m3 (1,000 ppm)	2005	NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards
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		PEL : Permissible exposure limit	1,900 mg/m3 (1,000 ppm)	02 2006	OSHA_TRANS: US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
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**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L, BDH1156-5GL)**

**00000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

		TWA : time weighted average	1,900 mg/m3 (1,000 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
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Methanol	67-56-1	SKIN_DES : Skin designation:	Can be absorbed through the skin.	2008	ACGIH:US. ACGIH Threshold Limit Values
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		STEL : Short term exposure limit	(250 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
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		TWA : time weighted average	(200 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
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		STEL : Short term exposure limit	325 mg/m3 (250 ppm)	2005	NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards
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**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L, BDH1156-5GL)**

**00000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

		SKIN_DES : Skin designation:	Can be absorbed through the skin.	2005	NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards
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		REL : Recommended exposure limit (REL):	260 mg/m3 (200 ppm)	2005	NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards
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		PEL : Permissible exposure limit	260 mg/m3 (200 ppm)	02 2006	OSHA_TRANS: US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
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		SKIN_FINAL : Skin designation (Final Rule Limit applies):	Can be absorbed through the skin.	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
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		STEL : Short term exposure limit	325 mg/m3 (250 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
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**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L, BDH1156-5GL)**

**00000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

		TWA : time weighted average	260 mg/m3 (200 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
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Isopropanol	67-63-0	STEL : Short term exposure limit	(400 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
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		TWA : time weighted average	(200 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
--	--	-----------------------------	-----------	------	--

		STEL : Short term exposure limit	1,225 mg/m3 (500 ppm)	2005	NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards
--	--	----------------------------------	-----------------------	------	--

		REL : Recommended exposure limit (REL):	980 mg/m3 (400 ppm)	2005	NIOSH/GUIDE: US. NIOSH: Pocket Guide to Chemical Hazards
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**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L, BDH1156-5GL)**
**00000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

		PEL : Permissible exposure limit	980 mg/m <sup>3</sup> (400 ppm)	02 2006	OSHA_TRANS: US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
--	--	--	------------------------------------	---------	---

		STEL : Short term exposure limit	1,225 mg/m <sup>3</sup> (500 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
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		TWA : time weighted average	980 mg/m <sup>3</sup> (400 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	: liquid, clear
Colour	: colourless
Odour	: mild alcohol-like
pH	: Note: not applicable
Melting point/freezing point	: -114.1 °C Note: The physical data is that of the main component.
Boiling point/boiling range	: 78.32 °C Note: The physical data is that of the main component.
Flash point	: 59 °F (15 °C) Method: closed cup

**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L, BDH1156-5GL)****00000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

Note: The physical data is that of the main component.

Evaporation rate	: ca. 3 Method: Compared to Butyl acetate.
Lower explosion limit	: 3 %(V) Note: The physical data is that of the main component.
Upper explosion limit	: 19 %(V) Note: The physical data is that of the main component.
Vapour pressure	: 59.5 hPa at 20 °C(68 °F) Note: The physical data is that of the main component.
Vapour density	: 1.6 Note: (Air = 1.0), The physical data is that of the main component.
Density	: 0.7890 g/cm <sup>3</sup> at 20 °C 0.7847 g/cm <sup>3</sup> at 25 °C
Water solubility	: Note: completely soluble
Ignition temperature	: Note: not determined

**SECTION 10. STABILITY AND REACTIVITY**

Conditions to avoid	: Heat, flames and sparks. Keep away from direct sunlight.
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**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L, BDH1156-5GL)****000000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

Materials to avoid	: Strong oxidizing agents Potassium superoxide Bromine Pentafluoride Acetyl bromide Acetyl chloride Platinum Sodium
Hazardous decomposition products	: In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO <sub>2</sub> ) Formaldehyde
Hazardous reactions	: Hazardous polymerisation does not occur. Stable under recommended storage conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	: LD50: 7,060 mg/kg Species: rat Test substance: Ethanol
	: LD50: 5,628 mg/kg Species: rat Test substance: Methanol
	: LD50: 5,045 mg/kg Species: rat Test substance: Isopropanol
Acute inhalation toxicity	: LC50: 20000 ppm Exposure time: 10 h Species: rat Test substance: Ethanol
	: LC50: 64000 ppm Exposure time: 4 h Species: rat Test substance: Methanol
	: LC50: 16000 ppm Exposure time: 8 h


**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L,  
BDH1156-5GL)**
**000000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

	Species: rat Test substance: Isopropanol
Acute dermal toxicity	: LD50: 15,800 mg/kg Species: rabbit Test substance: Methanol
	: LD50: 12,800 mg/kg Species: rabbit Test substance: Isopropanol
Skin irritation	: Species: rabbit Result: irritating Exposure time: 24 h Test substance: Ethanol
	: Species: rabbit Result: irritating Exposure time: 24 h Test substance: Methanol
	: Species: rabbit Result: Mild skin irritation Test substance: Isopropanol
Eye irritation	: Species: rabbit Result: irritating Test substance: Ethanol
	: Species: rabbit Result: irritating Test substance: Methanol
	: Species: rabbit Result: Severe eye irritation Test substance: Isopropanol
Repeated dose toxicity Methanol	: Species: rat Application Route: Inhalation Test substance: Methanol Developmental Toxicity NOAEL (maternal toxicity)


**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L,  
BDH1156-5GL)**
**000000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

10,000 ppm  
NOAEL (developmental toxicity)  
5,000 ppm  
Skeletal and visceral malformations.

Genotoxicity in vitro  
Methanol

: Note: In vitro tests did not show mutagenic effects

Genotoxicity in vivo  
Methanol

: Note: In vivo tests did not show mutagenic effects

Further information

: Note: Confirmed animal carcinogen with unknown relevance to humans.

**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity effects**

Toxicity to fish

: LC0: 8,140 mg/l  
Exposure time: 48 h  
Species: Leuciscus idus (Golden orfe)  
Test substance: Ethanol

: flow-through test  
LC50: 12,900 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)  
Test substance: Ethanol

: LC50: 14,200 mg/l  
Exposure time: 96 h  
Species: Pimephales promelas (fathead minnow)  
Test substance: Ethanol

: LC50: 29,400 mg/l  
Exposure time: 96 h  
Species: Pimephales promelas (fathead minnow)  
Test substance: Methanol

: LC50: > 5,000 mg/l


**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L, BDH1156-5GL)**
**000000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

	Exposure time: 24 h Species: Carassius auratus (goldfish) Test substance: Isopropanol
	: LC50: 8,970 mg/l Exposure time: 48 h Species: Leuciscus idus (Golden orfe) Test substance: Isopropanol
	: LC50: 10,400 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow) Test substance: Isopropanol
Toxicity to daphnia and other aquatic invertebrates.	: EC50: 9,268 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Test substance: Ethanol
	: EC50: 10,800 mg/l Exposure time: 24 h Species: Daphnia magna (Water flea) Test substance: Ethanol
	: LC50: 10,000 mg/l Exposure time: 24 h Species: Daphnia Test substance: Methanol
	: EC50: > 100 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Test substance: Isopropanol
Toxicity to algae	: LC0: 5,000 mg/l Species: Scenedesmus quadricauda Test substance: Ethanol
	: LC50: > 2,000 mg/l Exposure time: 72 h Species: Desmodesmus subspicatus (green algae) Test substance: Isopropanol
Toxicity to bacteria	: LC0: 6,500 mg/l



**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L, BDH1156-5GL)****00000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

Species: Pseudomonas putida  
Test substance: Ethanol

: EC50: 35,470 mg/l  
Exposure time: 5 min  
Species: Photobacterium phosphoreum  
Test substance: Ethanol

: EC50: 34,634 mg/l  
Exposure time: 30 min  
Species: Photobacterium phosphoreum  
Test substance: Ethanol

: EC50: 43,000 mg/l  
Exposure time: 5 min  
Species: Photobacterium phosphoreum  
Test substance: Methanol

: EC50: 40,000 mg/l  
Exposure time: 15 min  
Species: Photobacterium phosphoreum  
Test substance: Methanol

: EC50: 39,000 mg/l  
Exposure time: 25 min  
Species: Photobacterium phosphoreum  
Test substance: Methanol

: EC50: 35,390 mg/l  
Exposure time: 5 min  
Species: Photobacterium phosphoreum  
Test substance: Isopropanol

**Elimination information (persistence and degradability)**

Biodegradability : Biochemical Oxygen Demand (BOD)  
Biochemical oxygen demand within 5 days  
Value: 58 %  
Test substance: Isopropanol

**Further information on ecology****SECTION 13. DISPOSAL CONSIDERATIONS**


**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L, BDH1156-5GL)**
**00000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

**SECTION 14. TRANSPORT INFORMATION**

<b>DOT</b>	UN/ID No.	: UN 1987
	Proper shipping name	: ALCOHOLS, N.O.S. (Ethanol, Methanol, Isopropanol)
	Class	: 3
	Packing group	: II
	Hazard Labels	: 3
<b>IATA</b>	UN/ID No.	: UN 1987
	Description of the goods	: ALCOHOLS, N.O.S. (Ethanol, Methanol, Isopropanol)
	Class	: 3
	Packaging group	: II
	Hazard Labels	: 3
	Packing instruction (cargo aircraft)	: 364
	Packing instruction (passenger aircraft)	: 353
Packing instruction (passenger aircraft)	: Y341	
<b>IMDG</b>	UN/ID No.	: UN 1987
	Description of the goods	: ALCOHOLS, N.O.S. (ETHANOL, METHANOL, ISOPROPANOL)
	Class	: 3
	Packaging group	: II
	Hazard Labels	: 3
	EmS Number	: F-E
Marine pollutant	: no	

**SECTION 15. REGULATORY INFORMATION**
**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

Australia. Industrial Chemical (Notification and : On the inventory, or in compliance with the inventory



**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L, BDH1156-5GL)**

**00000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

Assessment) Act

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL list.

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

**National regulatory information**

**SARA 302 Components** : SARA 302: 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:  
 : Methanol 67-56-1  
 : Isopropanol 67-63-0

**SARA 311/312 Hazards** : Fire Hazard  
 Acute Health Hazard  
 Chronic Health Hazard

**CERCLA Reportable Quantity** : 100000 lbs



**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L, BDH1156-5GL)**

**000000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

**California Prop. 65** : WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.  
Methanol 67-56-1

**Massachusetts RTK** : Ethanol 64-17-5  
: Methanol 67-56-1  
: Isopropanol 67-63-0

**New Jersey RTK** : Ethanol 64-17-5  
: Methanol 67-56-1  
: Isopropanol 67-63-0

**Pennsylvania RTK** : Ethanol 64-17-5  
: Methanol 67-56-1  
: Isopropanol 67-63-0

**WHMIS Classification** : B2: Flammable liquid  
D1B: Toxic Material Causing Immediate and Serious Toxic Effects  
D2A: Very Toxic Material Causing Other Toxic Effects  
D2B: Toxic Material Causing Other Toxic Effects  
This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**SECTION 16. OTHER INFORMATION**

	<b>HMIS III</b>	<b>NFPA</b>
Health hazard	: 2*	1
Flammability	: 3	3
Physical Hazard	: 0	
Instability	:	0

\* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.



**Reagent Alcohol (BDH1156-1LP, BDH1156-4LP, BDH1156-19L,  
BDH1156-5GL)**

**000000011694**

Version 1

Revision Date 06/20/2012

Print Date 06/20/2012

**Further information**

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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Previous Issue Date: 03/27/2009

Prepared by: Honeywell Performance Materials and Technologies Product Stewardship Group