

ersion 1.5		Revision Date 03/23/2015	Print Date 05/08/201
CTION 1. PRODUCT AND C	OMF	PANY IDENTIFICATION	
Product name	:	Isopropyl Alcohol 70%	
MSDS Number	:	00000011699	
Product Use Description	:	Solvent	
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) <b>For Transportation Emergencies:</b> 1-800-424-9300 (CHEMTREC - Domestic) 1-613-996-6666 (CANUTEC - Canada)	
CTION 2. HAZARDS IDENTI	FICA	TION	
Emergency Overview			
Form		: liquid, clear	
Color	1	: colourless	
Odor	2010	: slight alcohol-like	
		Page 1 / 15	



### **Isopropyl Alcohol 70%**

#### **BDH1131**

Version 1.5

Revision Date 03/23/2015

Print Date 05/08/2015

#### Classification of the substance or mixture

Classification of the substance : Flammable liquids, Category 2 or mixture Eye irritation, Category 2A

Flammable liquids, Category 2 Eye irritation, Category 2A Specific target organ toxicity - single exposure, Category 3, Central nervous system

#### GHS Label elements, including precautionary statements

Symbol(s)

: Highly flammable liquid and vapour. Causes serious eye irritation.

May cause drowsiness and dizziness.

: Danger

Signal word

Hazard statements

Precautionary statements

: **Prevention:** 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. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area.

Wear protective gloves/ eye protection/ face protection.

#### Response:

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Page 2 / 15

	EET	(BDH)
		VWR ANALYTICAL
sopropyl Alcohol	70%	
BDH1131 Version 1.5	Revision Date 03/23/2015	Print Date 05/08/201
	Call a POISON CENTER or doctor. If eye irritation persists: Get medica In case of fire: Use dry sand, dry cl foam for extinction. <b>Storage:</b> Store in a well-ventilated place. Ke Keep cool. Store locked up. <b>Disposal:</b> Dispose of contents/container in ac federal regulations.	al advice/ attention. hemical or alcohol-resistant ep container tightly closed.
Carcinogenicity No component of this pro anticipated carcinogen b	oduct present at levels greater than or equal to by NTP, IARC, or OSHA.	0.1% is identified as a known o
No component of this pro anticipated carcinogen b	oduct present at levels greater than or equal to by NTP, IARC, or OSHA. N/INFORMATION ON INGREDIENTS	0.1% is identified as a known o
No component of this pro anticipated carcinogen b	by NTP, IARC, or OSHA.	0.1% is identified as a known c
No component of this pro- anticipated carcinogen b SECTION 3. COMPOSITION	N/INFORMATION ON INGREDIENTS	0.1% is identified as a known c
No component of this pro- anticipated carcinogen b SECTION 3. COMPOSITION Formula Chemical nature	N/INFORMATION ON INGREDIENTS C3H8O	0.1% is identified as a known o
No component of this pro- anticipated carcinogen b SECTION 3. COMPOSITION Formula Chemical nature	N/INFORMATION ON INGREDIENTS : C3H8O : Mixture	
No component of this pro- anticipated carcinogen b SECTION 3. COMPOSITION Formula Chemical nature Chem	N/INFORMATION ON INGREDIENTS : C3H8O : Mixture hical Name CAS-No.	Concentration
No component of this pro- anticipated carcinogen b SECTION 3. COMPOSITION Formula Chemical nature Chem Isopropanol	N/INFORMATION ON INGREDIENTS : C3H8O : Mixture nical Name CAS-No. 67-63-0 7732-18-5	Concentration 70.00 %
No component of this pro- anticipated carcinogen b SECTION 3. COMPOSITION Formula Chemical nature Isopropanol Water	N/INFORMATION ON INGREDIENTS : C3H8O : Mixture nical Name CAS-No. 67-63-0 7732-18-5	Concentration 70.00 % 30.00 % give artificial respiration. If e oxygen as required,



3DH1131			
/ersion 1.5		Revision Date 03/23/2015	Print Date 05/08/201
Skin contact	:	Wash off immediately with plenty of wa minutes. Take off contaminated clothing Wash contaminated clothing before re- irritation develops or persists.	and shoes immediately.
Eye contact	1	Rinse immediately with plenty of water, for at least 15 minutes. Call a physician	also under the eyelids, n.
Ingestion	1	Do not induce vomiting without medical medical attention is required. Never giv an unconscious person. Call a physicia	e anything by mouth to
Notes to physician			
Treatment	:	Treat symptomatically.	
ECTION 5. FIREFIGHTING MEA	s	JRES	
Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Cool closed containers exposed to fire	with water spray.
Unsuitable extinguishing media	:	Do not use a solid water stream as it m fire.	nay scatter and spread
Specific hazards during firefighting	:	Flammable. Vapours may form explosive mixtures of Vapours are heavier than air and may so Vapors may travel to areas away from igniting/flashing back to vapor source. In case of fire hazardous decomposition produced such as: Carbon monoxide Carbon dioxide (CO2)	spread along floors. work site before
Special protective equipment for firefighters	•	Wear self-contained breathing apparate	us and protective suit.

SAFETY DATA SHEET		(BDH)
		VWR ANALYTICAL
Isopropyl Alcohol 70% BDH1131		
Version 1.5	Revision Date 03/23/2015	Print Date 05/08/2015
SECTION 6. ACCIDENTAL RELE	ASE MEASURES	
Personal precautions	<ul> <li>Wear personal protective equipment. Immediately evacuate personnel to saf Keep people away from and upwind of Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and cloth</li> </ul>	spill/leak.
Environmental precautions	: Prevent further leakage or spillage if sa Discharge into the environment must b Do not flush into surface water or sanit Prevent product from entering drains. Collect contaminated fire extinguishing must not be discharged into drains.	e avoided. ary sewer system.
Methods for cleaning up	: Ventilate the area. No sparking tools should be used. Use explosion-proof equipment. Contain and collect spillage with non-c materials, e.g. sand, earth, vermiculite, place in container for disposal accordir (see section 13).	diatomaceous earth and
SECTION 7. HANDLING AND ST Handling	DRAGE	
Handling	<ul> <li>Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and cloth</li> </ul>	ing.
	Page 5 / 15	

#### SAFETY DATA SHEET VWR ANALYTICAL Isopropyl Alcohol 70% **BDH1131** Version 1.5 Revision Date 03/23/2015 Print Date 05/08/2015 Advice on protection against : Keep away from fire, sparks and heated surfaces. fire and explosion 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 of ignition. No sparking tools should be used. No smoking. Storage Requirements for storage Store in area designed for storage of flammable liquids. Protect areas and containers 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 vapour 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: Page 6 / 15



ersion 1.5		Revision Date 03/23/2015	Print Date 05/08/2015
		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 clo If splashes are likely to occur, wear: Protective suit	thing.
Respiratory protection	:	In case of insufficient ventilation wear su equipment. For rescue and maintenance work in sto self-contained breathing apparatus. Use NIOSH approved respiratory protect	brage tanks use
Hygiene measures	:	When using, do not eat, drink or smoke. Wash hands before breaks and immedia product. Keep working clothes separately. Remove and wash contaminated clothin Do not swallow. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothin	ately after handling the g before re-use.

Components	CAS-No.	Value	Control parameters	Upda te	Basis
Isopropanol	67-63-0	TWA : time weighted average	(200 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Isopropanol	67-63-0	STEL : Short term exposure limit	(400 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values



#### **Isopropyl Alcohol 70%**

**BDH1131** 

Version 1.5 Revision Date 03/23/2015 Print Date 05/08/2015 Isopropanol 67-63-0 REL : 980 mg/m3 2005 NIOSH/GUIDE:US. Recomm (400 ppm) NIOSH: Pocket ended Guide to Chemical exposure Hazards limit (REL): 67-63-0 Isopropanol STEL : 1,225 mg/m3 2005 NIOSH/GUIDE:US. Short (500 ppm) NIOSH: Pocket term Guide to Chemical exposure Hazards limit OSHA\_TRANS:US. OSHA Table Z-1 Isopropanol 67-63-0 PEL: 980 mg/m3 02 Permissi (400 ppm) 2006 ble Limits for Air exposure Contaminants (29 limit CFR 1910.1000) Isopropanol 67-63-0 TWA: 980 mg/m3 1989 Z1A:US. OSHA time (400 ppm) Table Z-1-A (29 weighted CFR 1910.1000) average Isopropanol 67-63-0 STEL : 1,225 mg/m3 1989 Z1A:US. OSHA Short (500 ppm) Table Z-1-A (29 term CFR 1910.1000) exposure limit SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES Physical state : liquid, clear Color : colourless Odor : slight alcohol-like Page 8 / 15



sion 1.5	Revision Date 03/23/2015 Print Date 05/08/2
рН	: Note: Not applicable
Melting point/freezing point	: -62.1 ℃
Boiling point/boiling range	: 87.7 ℃
Flash point	: 53.1 ºF (11.7 ℃) Method: closed cup
Evaporation rate	: 1.3 Method: Compared to Butyl acetate.
Lower explosion limit	: 2 %(V)
Upper explosion limit	: 12.0 %(V)
Vapor pressure	: Note: no data available
Vapor density	: 2.1 Note: (Air = 1.0)
Density	: 0.785 g/cm3 at 25 ℃ Note: The information regarding the density is that of the pure substance.
Water solubility	: Note: completely soluble
Ignition temperature	: 399 ℃ Note: Information regarding ignition temperature applies only to the solvent.



## Isopropyl Alcohol 70%

BDH1131 Version 1.5

Revision Date 03/23/2015

Print Date 05/08/2015

Molecular weight

: 60.11 g/mol

#### SECTION 10. STABILITY AND REACTIVITY

	Acute oral toxicity Isopropanol	:	LD50: 5,045 mg/kg Species: Rat
S	ECTION 11. TOXICOLOGICAL	INFO	DRMATION
	Hazardous decomposition products	:	In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO2)
	Incompatible materials to avoid	:	Strong acids Strong oxidizing agents Keep away from metals. Acetaldehyde Aluminium Chlorine Ethylene oxide Isocyanates Oxygen May attack many plastics, rubbers and coatings.
	reactions Conditions to avoid		Heat, flames and sparks. Keep away from direct sunlight.
	Chemical stability Possibility of hazardous		Stable under recommended storage conditions. Hazardous polymerisation does not occur.
	Chamical stability		Stable under recommended storage conditions

Page 10 / 15



ersion 1.5	Revision Date 03/23/2015	Print Date 05/08/20
Acute inhalation toxicity Isopropanol	: LC50: 39.36 mg/l 16000 ppm Exposure time: 8 h Species: Rat	
Acute dermal toxicity Isopropanol	: LD50: 12,800 mg/kg	
Skin irritation Isopropanol	Species: Rabbit : Species: Rabbit Result: slight irritation	
Eye irritation Isopropanol	: Species: Rabbit Result: Severe eye irritation	
CTION 12. ECOLOGICAL IN	FORMATION	
Toxicity to fish Isopropanol	: LC50: > 5,000 mg/l Exposure time: 24 h Species: Carassius auratus (goldfish) LC50: 8,970 mg/l	
	Exposure time: 48 h Species: Leuciscus idus (Golden orfe) LC50: 10,400 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead r	ninnow)

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	VWR ANALYTICA
Isopropyl Alcohol 7	0%
BDH1131 Version 1.5	Revision Date 03/23/2015 Print Date 05/08/2
Toxicity to daphnia and o Isopropanol	ther aquatic invertebrates : EC50: > 100 mg/l
	Exposure time: 48 h Species: Daphnia magna (Water flea)
Toxicity to algae Isopropanol	: LC50: > 2,000 mg/l
	Exposure time: 72 h Species: Desmodesmus subspicatus (green algae)
Toxicity to bacteria Isopropanol	: EC50: 35,390 mg/l
	Exposure time: 5 min Species: Photobacterium phosphoreum
Biodegradability	
Isopropanol	<ul> <li>Biochemical Oxygen Demand (BOD) Biochemical oxygen demand within 5 days</li> <li>Value: 58 %</li> </ul>
Further information on e	ecology
ECTION 13. DISPOSAL CON	SIDERATIONS
Disposal methods	: Dispose of contents/ container in accordance with local, state, and federal regulations.
ECTION 14. TRANSPORT IN	IFORMATION
DOT UN/ID No. Proper shippir Class	: UN 1219 ng name : ISOPROPANOL SOLUTION 3
Packing group Hazard Labels	
	Page 12 / 15



## Isopropyl Alcohol 70%

#### **BDH1131**

Version 1.5

Revision Date 03/23/2015

Print Date 05/08/2015

ΙΑΤΑ	UN/ID No. Description of the goods Class Packaging group Hazard Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft) Packing instruction (passenger aircraft)	: UN 1219 : ISOPROPANOL SOLUTION : 3 : II : 3 : 364 : 353 : Y341
IMDG	UN/ID No. Description of the goods Class Packaging group Hazard Labels EmS Number Marine pollutant	: UN 1219 : ISOPROPANOL SOLUTION : 3 : II : 3 : F-E, S-D : no

#### SECTION 15. REGULATORY INFORMATION

#### Inventories

US. Toxic Substances Control Act	:	On TSCA Inventory		
Australia. Industrial Chemical (Notification and Assessment) Act	:	On the inventory, or in compliance with the inventory		
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	:	All components of this product are on the Canadian DSL.		
Japan. Kashin-Hou Law List	:	On the inventory, or in compliance with the inventory		
Korea. Toxic Chemical Control Law (TCCL) List	:	On the inventory, or in compliance with the inventory		
Page 13 / 15				



### Isopropyl Alcohol 70%

BDH1131

Version 1.5 Revision Date 03/23/2015 Print Date 05/08/2015 : On the inventory, or in compliance with the inventory Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act China. Inventory of Existing : On the inventory, or in compliance with the inventory **Chemical Substances** New Zealand. Inventory of : On the inventory, or in compliance with the inventory Chemicals (NZIoC), as published by ERMA New Zealand National 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: : Isopropanol 67-63-0 SARA 311/312 Hazards : Fire Hazard Acute Health Hazard Chronic Health Hazard California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. Massachusetts RTK : Isopropanol 67-63-0 New Jersey RTK : Isopropanol 67-63-0 Page 14 / 15

#### SAFETY DATA SHEET **VWR ANALYTICAL** Isopropyl Alcohol 70% **BDH1131** Version 1.5 Revision Date 03/23/2015 Print Date 05/08/2015 Pennsylvania RTK : Isopropanol 67-63-0 WHMIS Classification : B2: Flammable liquid 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** HMIS III **NFPA** 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. 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: 06/20/2012 Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group

Page 15 / 15