

SAFETY DATA SHEET

1. Identification

Product identifier: REAGENT ALCOHOL

Other means of identification Product No.: 7284, 7019, 6183, A478, 9401, 9229

Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name: Address:	Avantor Performance Materials, Inc. 3477 Corporate Parkway, Suite 200 Center Valley, PA 18034
Telephone:	Customer Service: 855-282-6867
Fax: Contact Person: e-mail:	Environmental Health & Safety info@avantormaterials.com

Emergency telephone number:

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

2. Hazard(s) identification

Hazard classification

Physical hazards	
Flammable liquids	Category 2
Health hazards	
Acute toxicity (Oral)	Category 4
Acute toxicity (Dermal)	Category 4
Acute toxicity (Inhalation - vapor)	Category 4
Serious eye damage/eye irritation	Category 2A
Toxic to reproduction	Category 2
Specific target organ toxicity - single exposure	Category 1
Specific target organ toxicity - single exposure	Category 3

Label elements

Hazard symbol:



Signal word:

Danger



Hazard statement:	Highly flammable liquid and vapor. Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes serious eye irritation. May cause respiratory irritation. Suspected of damaging fertility. May cause damage to organs.
Precautionary statement	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.
Response:	In case of fire: Use water spray, foam, dry powder or carbon dioxide for extinction. IF exposed: Call a POISON CENTER or doctor/physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
Storage:	Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
azards which do not n GHS classification:	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

Other result

Common name and synonyms	CAS number	Content in percent (%)*
	64-17-5	88 - 92%
	67-63-0	4 - 6%
	67-56-1	2.5 - 10%
		and synonyms number 64-17-5 67-63-0

All concentrations are percent by volume.

4. First-aid measures



General information:	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.	
Ingestion:	Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.	
Inhalation:	Move to fresh air. Get medical attention if symptoms occur.	
Skin contact:	Wash skin thoroughly with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.	
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.	
Most important symptoms/effects	s, acute and delayed	
Symptoms:	Harmful if inhaled. Harmful if swallowed. Irritating to eyes, respiratory system and skin.	
Indication of immediate medical a	ttention and special treatment needed	
Treatment:	Symptoms may be delayed. Treat symptomatically.	
5. Fire-fighting measures		
General fire hazards:	In case of fire and/or explosion do not breathe fumes. Vapors may cause a flash fire or ignite explosively.	
Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media:	Water spray, foam, dry powder or carbon dioxide.	
Unsuitable extinguishing media:	Avoid water in straight hose stream; will scatter and spread fire.	
Specific hazards arising from the chemical:	Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations.	
Special protective equipment and precautions for firefighters		
Special fire fighting procedures:	Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.	
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.	
6. Accidental release measures	3	
Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.	



Methods and material for containment and cleaning up:	Eliminate all ignition sources if safe to do so. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Collect in a non-combustible container for prompt disposal. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures:	Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.
Environmental precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling:	DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Use personal protective equipment as required. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash hands thoroughly after handling. See Section 8 of the MSDS for Personal Protective Equipment.
Conditions for safe storage, including any incompatibilities:	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.



8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Chemical identity	Туре	Exposure Lir	nit values	Source
ETHANOL	STEL	1,000 ppm		US. ACGIH Threshold Limit Values (2011)
	REL	1,000 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL		1,900 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1,000 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
ISOPROPYL ALCOHOL	TWA	200 ppm		US. ACGIH Threshold Limit Values (2011)
	STEL	400 ppm		US. ACGIH Threshold Limit Values (2011)
	REL	400 ppm	980 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	500 ppm	1,225 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	400 ppm	980 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	400 ppm	980 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL		1,225 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
METHYL ALCOHOL	TWA	200 ppm		US. ACGIH Threshold Limit Values (2011)
	STEL	250 ppm		US. ACGIH Threshold Limit Values (2011)
	STEL	250 ppm	325 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	200 ppm	260 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	200 ppm	260 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	200 ppm	260 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	250 ppm	325 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

Biological limit values

Chemical identity	Exposure Limit values	Source
ISOPROPYL ALCOHOL (acetone: Sampling time: End of shift at end of work week.)	40 mg/l (Urine)	ACGIH BEL (2011)
METHYL ALCOHOL (methanol: Sampling time: End of shift.)	15 mg/l (Urine)	ACGIH BEL (2011)

Appropriate engineering controls

No data available.

Individual protection measures, such as personal protective equipment

General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
Eye/face protection:	Wear safety glasses with side shields (or goggles). Wear face shield if there is risk of splashes.
Skin protection Hand protection:	Chemical resistant gloves
Other: SDS_US - SDSMIX000950	Wear suitable protective clothing. 5/13



Respiratory protection: In case of inadequate ventilation use suitable respirator.

Hygiene measures: Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

9. Physical and chemical properties

Appearance	
Physical state:	Liquid
Form:	Liquid
Color:	Colorless
Odor:	Mild pleasant odor
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	-114 °C
Initial boiling point and boiling range:	78 °C
Flash Point:	13 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explo	sive limits
Flammability limit - upper (%):	19 %(V)
Flammability limit - lower (%):	3.3 %(V)
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	8.1 kPa
Vapor density:	No data available.
Relative density:	0.79 (20 °C)
Solubility(ies)	
Solubility in water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	422 °C
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Heat, sparks, flames. Contact with incompatible materials.
Incompatible materials:	Strong oxidizing agents. Alkali metals. Inorganic salts. Organic - organometallic. Inorganic hydrides.
Hazardous decomposition products:	Thermal decomposition may release oxides of carbon.



11. Toxicological information

Information on likely routes of exposure Ingestion: Harmful if swallowed.		
Inhalation:	Harmful if inhaled. May cause irritation to the respiratory system.	
Skin contact:	Harmful if absorbed through skin. Causes mild skin irritation.	
Eye contact:	Causes serious eye irritation.	
Information on toxicological effects		
Acute toxicity (list all possible routes of exposure)		

Oral Product: Specified substance(s): ETHANOL Specified substance(s): ISOPROPYL ALCOHOL Specified substance(s): METHYL ALCOHOL LD 50 (Rat): 5,628 mg/kg LD 50 (Rat): 14,400 mg/kg

Dermal Product:

No data available.

Specified substance(s): ISOPROPYL LD 50 (Rabbit): 12,800 mg/kg ALCOHOL

Specified substance(s):	
METHYL ALCOHOL	LD 50 (Rabbit): 15,800 mg/kg

Inhalation Product:

No data available.

- ETHANOL LC 50 (Rat, 10 h): 20,000 mg/l
- Specified substance(s): ISOPROPYL ALCOHOL No data available.
- Specified substance(s): METHYL ALCOHOL LC 50 (Rat, 6 h): 87.5 mg/l
- Repeated dose toxicity Product: No data available.

Specified substance(s):

Skin corrosion/irritation Product: Causes mild skin irritation.

- Serious eye damage/eye irritation Product: Causes serious eye irritation.
- Respiratory or skin sensitization Product: Not a skin sensitizer.
- Carcinogenicity

 Product:
 This substance has no evidence of carcinogenic properties.



IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

- ETHANOL
 Overall evaluation: 1. Carcinogenic to humans. Overall evaluation: 1. Carcinogenic to humans.

 ICODDODXI
 Overall evaluation: 1. Overall evaluation: 2. No
- ISOPROPYLOverall evaluation: 1. Carcinogenic to humans. Overall evaluation: 3. NotALCOHOLclassifiable as to carcinogenicity to humans.

US. National Toxicology Program (NTP) Report on Carcinogens: ETHANOL Known To Be Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ cell mutagenicity

In vitro Product:	No mutagenic components identified
In vivo Product:	No mutagenic components identified
Reproductive toxicity Product:	May damage fertility or the unborn child.
Specific target organ toxicity - si Product:	i ngle exposure Central nervous system. Eyes. Respiratory tract irritation.
Specific target organ toxicity - re Product:	epeated exposure None known.
Aspiration hazard Product:	Not classified
Other effects:	None known.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): ETHANOL	LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 12,000 - 16,000 mg/l Mortality LC 50 (Fathead minnow (Pimephales promelas), 96 h): 13,480 mg/l Mortality LC 50 (Carp (Leuciscus idus melanotus), 48 h): 8,140 mg/l Mortality
ISOPROPYL ALCOHOL	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 5,770 - 7,450 mg/l Mortality LC 50 (Bluegill (Lepomis macrochirus), 96 h): > 1,400 mg/l Mortality LC 50 (Western mosquitofish (Gambusia affinis), 96 h): > 1,400 mg/l Mortality
METHYL ALCOHOL	LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 18,000 - 20,000 mg/l Mortality LC 50 (Fathead minnow (Pimephales promelas), 96 h): 28,200 mg/l Mortality



Aquatic invertebrates Product:	No data available.
Specified substance(s): ETHANOL	EC 50 (Water flea (Daphnia obtusa), 48 h): 10,100 - 11,200 mg/l Intoxication LC 50 (Brine shrimp (Artemia franchiscana), 48 h): 25.5 mg/l Mortality LC 50 (Water flea (Daphnia magna), 48 h): 7,560 - 12,600 mg/l Mortality
ISOPROPYL ALCOHOL	LC 50 (Brine shrimp (Artemia salina), 24 h): > 10,000 mg/l Mortality LC 50 (Water flea (Daphnia magna), 24 h): > 10,000 mg/l Mortality LC 50 (Common shrimp, sand shrimp (Crangon crangon), 96 h): 750 - 1,650 mg/l Mortality
METHYL ALCOHOL	EC 50 (Water flea (Daphnia magna), 48 h): 20,450 - 29,350 mg/l Intoxication LC 50 (Water flea (Daphnia magna), 48 h): 2,461 - 4,395 mg/l Mortality
Chronic hazards to the aquati	c environment:
Fish Product:	No data available.
Aquatic invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and degradability	
Biodegradation Product:	Expected to be readily biodegradable.
BOD/COD ratio Product:	No data available.
Bioaccumulative potential Bioconcentration factor (BC Product:	F) No data available on bioaccumulation.
Partition coefficient n-octan Product:	ol / water (log Kow) No data available.
Specified substance(s): ETHANOL	Log Kow: -0.31
ISOPROPYL ALCOHOL	Log Kow: 0.05
METHYL ALCOHOL	Log Kow: -0.77
Mobility in soil:	The product is water soluble and may spread in water systems.
Other adverse effects:	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
13. Disposal considerations	
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.



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14. Transport information

DOT	
UN number:	UN 1987
UN proper shipping name:	Alcohols, n.o.s.(ETHANOL, METHANOL, ISOPROPANOL)
Transport hazard class(es)	
Class(es):	3
Label(s):	3
Packing group:	II
Marine Pollutant:	No
IMDO	
IMDG UN number:	UN 1987
UN proper shipping name:	ALCOHOLS, N.O.S.(ETHANOL, METHANOL, ISOPROPANOL)
Transport hazard class(es)	ALCOHOLS, N.O.S.(ETHANOL, METHANOL, ISOFROFANOL)
Class(es):	3
Label(s):	3
EmS No.:	F-E, S-D
Packing group: Marine Pollutant:	Νο
	NO
ΙΑΤΑ	
UN number:	UN 1987
Proper Shipping Name:	Alcohols, n.o.s.(ETHANOL, METHANOL, ISOPROPANOL)
Transport hazard class(es):	
Class(es):	3
Label(s):	3
Marine Pollutant:	No
Packing group:	II

15. Regulatory information

US federal regulations

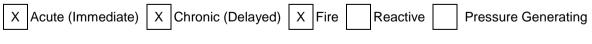
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4): METHYL ALCOHOL Reportable quantity: 5000 lbs.

Superfund amendments and reauthorization act of 1986 (SARA)

Hazard categories



SARA 302 Extremely hazardous substance

None present or none present in regulated quantities.

SARA 304 Emergency release notification

Chemical identity	RQ
ETHANOL	100 lbs.
ISOPROPYL ALCOHOL	100 lbs.
METHYL ALCOHOL	5000 lbs.



Chemical identity	Threshold Plannir	ng Quantity
ETHANOL		500 lbs
ISOPROPYL ALCOHOL	500 lbs	
METHYL ALCOHOL		500 lbs
SARA 313 (TRI reporting)		
	Reporting threshold for	Reporting threshold for manufacturing and
Chemical identity	other users	processing
Onennoar lacinity		precessing
METHYL ALCOHOL	10000 lbs	25000 lbs.

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

US state regulations

US. California Proposition 65

SARA 311/312 Hazardous chemical

METHYL ALCOHOL	Developmental toxin. WARNING: This
	product contains a chemical known to the
	State of California to cause birth defects or
	other reproductive harm.

US. New Jersey Worker and Community Right-to-Know Act

ETHANOL	Listed
ISOPROPYL ALCOHOL	Listed
METHYL ALCOHOL	Listed

US. Massachusetts RTK - Substance List

ETHANOL	Listed
ISOPROPYL ALCOHOL	Listed
METHYL ALCOHOL	Listed

US. Pennsylvania RTK - Hazardous Substances

ETHANOL	Listed
ISOPROPYL ALCOHOL	Listed
METHYL ALCOHOL	Listed

US. Rhode Island RTK

ETHANOL	Listed
ISOPROPYL ALCOHOL	Listed
METHYL ALCOHOL	Listed

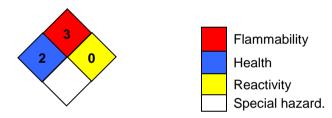


Inventory Status: Australia AICS: Canada DSL Inventory List: EU EINECS List: EU ELINCS List: Japan (ENCS) List: EU No Longer Polymers List: China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI): Canada NDSL Inventory: Philippines PICCS: US TSCA Inventory: New Zealand Inventory of Chemicals: Switzerland Consolidated Inventory: Japan ISHL Listing: Japan Pharmacopoeia Listing:

On or in compliance with the inventory On or in compliance with the inventory On or in compliance with the inventory Not in compliance with the inventory. On or in compliance with the inventory Not in compliance with the inventory On or in compliance with the inventory On or in compliance with the inventory Not in compliance with the inventory. On or in compliance with the inventory Not in compliance with the inventory. Not in compliance with the inventory.

16.Other information, including date of preparation or last revision

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue date:	06-17-2014
Revision date:	No data available.
Version #:	1.0
Further information:	No data available.



Disclaimer:

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