



Dynamic Diagnostics, Inc.

Material Safety Data Sheet

Section 1. Chemical Product and Company Information

Common Name:	Isopropyl alcohol 100%	Code: 9564	9564
Supplier:	BBC Biochemical	MSDS#: 9564	9564
Synonym:	None.	Validation Date:	09-01-2008
Trade Name:	None.	Print Date: 9-1-07	09-01-2008
Material Uses:	Not Available	Responsible Name:	Dr. B
Manufacturer:	BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477	

Section 2. Composition and Information on Ingredients

Name	CAS#	% by Weight	OSHA PEL
1) Isopropyl Alcohol	67-63-0	100	400 ppm

Section 3. Hazards Identification

Physical State and Appearance	Flammable Liquid and vapor. Vapor harmful
Emergency Overview	Not available.
Routes of Entry	Not available.
Potential Acute Health Effects	<p>Eyes Moderately irritating to the eyes.</p> <p>Skin Mildly irritating to the skin.</p> <p>Inhalation May cause mild irritaation to the nose, throat and respiratory tract and may result in central nervous system (CNS) depression.</p> <p>Ingestion Irritating to the gastrointestinal tract, causing abdominal pain and vomiting, sometimes bloody. Ingestion may cause CNS depression, low blood pressure, rapid heart beat and liver damage.</p>
Potential Chronic Health Effects	
Medical Conditions Aggravated by Overexposure	Irritation as noted above. Early to moderate CNS depression may be evidenced by giddiness, headache, dizziness, and nausea. In extreme cases, unconsciousness and death may occur. Liver damage may be evidenced by loss of appetite, jaundice and sometimes pain in the upper abdomen on the right side.
Overexposure/ Signs/Symptoms	

Section 4. First Aid Measures

Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. If irritation persists get medical attention.
Skin Contact	Flush skin with water
Inhalation	Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.
Ingestion	Do not give liquids if victim is unconscious or drowsy. Otherwise, give 2 glasses of water and induce vomiting by giving 30cc syrup of ipecac (or touching finger to the back of the victim's throat). Keep victim's head below hips while vomiting. Call doctor.
Notes to Physician	

Section 5. Fire Fighting Measures

Flammability of the Product	Flammability Class (OSHA): II
Auto-ignition Temperature	Not available.
Flash Points	53 F
Flammable Limits	2.00%
Products of Combustion	Carbon Monoxide and unidentified organic compounds may be formed during combustion.
Fire Hazards in Presence Of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	When heated above the flash point this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mist or spray may be flammable at temperatures below the flash point.
Fire Fighting Media and Instructions	
Protective Clothing (Fire)	
Special Remarks on Fire Hazards	
Special Remarks on Explosion Hazards	

Section 6. Accidental Release Measures

Small Spill and Leak	
Large Spill and Leak	

Section 7. Handling and Storage

Handling	Keep away from heat, sparks and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.
Storage	

Section 8. Exposure Controls / Personal Protection

Engineering Controls	Facilities storing or utilizing this material should be equipped with and eyewash facility and a safety shower.
Personal Protection	
Eyes	Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.
Body	Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required.
Respiratory	If exposure may or does exceed occupational exposure limits (Sec. 2) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respir. Of an air-purifying respir. For organic vapors.
Hands	Test data indicate the best protection is provided by neoprene, nitrile and natural rubber gloves.
Feet	
Personal Protection in Case of a Large Spill	WARNING Flammable. Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.
Product Name	Exposure Limits
1)	
2)	
3)	
Consult Local authorities before acceptable exposure limits.	

Section 9. Physical and Chemical Properties

Physical State and Appearance	Colorless, clear liquid. Mild color.	Odor:	Not available.
Molecular Weight	Not applicable.	Taste:	Not available.
Molecular Formula	Not applicable.	Color:	Not available.
pH (1%/Water)	Not applicable.		
Boiling/Condensation Point	180 F		
Melting/Freezing Point	5 F (-15 C)		
Critical Temperature	Not applicable.		

Specific Gravity	0.79
Vapor Pressure	32 mmHg. @ 20 C
Vapor Density	Not applicable.
Volatility	100%
Odor Threshold	
Evaporation Rate	Not applicable.
VOC	Not available.
Viscosity	Not available.
Ionicity (in water)	Not available.
Dispersion Properties	Not available.
Solubility	Infinite in water
Physical Chemical Comments	Not available.

Section 10. Stability and Reactivity

Stability and Reactivity	Stable
Conditions of Instability	Avoid heat , sparks, flame and contact with strong oxidizing agents. Do not store or handle in aluminum equipment at temperatures above 120 degrees F.
Incompatibility with Various Substances	Strong Oxidizers
Hazardous Decomposition Products	Carbon Monoxide and unidentified organic compounds may be formed during combustion.
Hazardous Polymerization	Will not occur

Section 11. Toxicological Information

Toxicity to Animals	N/A
Chronic Effects on Humans	
Other Toxic Effects on Humans	
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

Section 12. Ecological Information

Ecotoxicity	Keep out of waterways.
BODS and COD	Not available.
Biodegradable/OEDC	Not available.
Mobility	Not available.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on The Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Information	The preferred options for disposal are to send licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state and local regulations. Do not dump into sewers, ground or any body of water.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	Flammable liquid
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for	Not applicable.

Transport

TDG Classification	Not controlled under TDG (Canada).
ADR/RID Classification	Not controlled under ADR (Europe).
IMO/IMDG Classification	Not controlled under IMDG.
ICAO/IATA Classification	Not controlled under IATA.

Section 15. Other Information

Label requirements

Hazardous Material Information System (U.S.A.)	Health	1	National Fire Protection Association (U.S.A.)	
	Fire Hazard	3		
	Reactivity	0		
	Personal Protection			

References

Other Special Considerations

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.