

# MATERIAL SAFETY DATA SHEET

## SECTION 1.

DISTRIBUTOR'S NAME:  
ADDRESS:  
REGULAR TELEPHONE:  
TRADE NAME:

## CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Best Sanitizers, Inc.  
154 Mullen Drive Walton, KY 41094  
888-225-3267  
ALPET D2  
EMERGENCY TELEPHONE: CHEMTREC (800) 424-9300  
SYNONYMS: Sanitizer- Disinfectant

## SECTION 2.

MATERIAL/COMPONENT:  
Isopropanol (Isopropyl Alcohol)

## COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	%	HAZARD DATA
67-63-0	55 -75 %	TLV 1000ppm

## SECTION 3.

EMERGENCY OVERVIEW DESCRIPTION:

## HAZARDS INFORMATION

A clear alcohol based sanitizer with a strong alcohol odor.  
*NOTE: WARNINGS BELOW ARE FOR EXPOSURE TO LARGE QUANTITIES OF THE PRODUCT. NORMAL USAGE SHOULD NOT CREATE HAZARDOUS CONDITIONS.*

### POTENTIAL HEALTH EFFECTS

ETHYL ALCOHOL: Acute Oral LD<sub>50</sub> = 5045 mg/kg (Rat)  
Acute Dermal LD<sub>50</sub> = 20,800 mg/kg (Rabbit)  
Inhalation LC50 = 16,000 ppm/8 hr. (Rat)

### ROUTES OF EXPOSURE:

INHALATION: None expected under foreseeable conditions. Exposure to high levels of Isopropanol I can cause irritation to nose & throat and narcotic effects as listed under Ingestion.

SKIN CONTACT: None anticipated under foreseeable use conditions. May cause open cuts to burn or sting.

SKIN ABSORPTION: See skin contact. Excessive contact time not anticipated with normal use.

EYE CONTACT: Vapors may irritate the eyes.

INGESTION: May cause nausea and vomiting. Ingestion of large amounts can cause drowsiness, unconsciousness, cramps and even death

### EFFECTS OF OVEREXPOSURE:

ACUTE OVEREXPOSURE: Irritation of skin, eyes and mucous membranes. (See also skin ingestion.)  
CHRONIC OVEREXPOSURE: Persons with existing skin problems should consult a physician before consistent use of this product.

## SECTION 4.

## EMERGENCY & FIRST AID PROCEDURES

EYES: Immediately flush eyes with large amounts of water for at least 15 minutes. Hold eyelids apart while flushing. Get medical attention immediately.

SKIN: For accidental exposure to large quantities, not normal usage. Immediately flush with water. Wash with soap and water.

INHALATION: For accidental exposure to large quantities, not normal usage. Move person to fresh air. If breathing stops, give artificial respiration, get medical attention immediately.

INGESTION: Never give anything by mouth to an unconscious person. Give 250 ml (8oz) of water do not induce vomiting. If vomiting occurs spontaneously, keep airway clear. Get medical attention immediately.

**OBJECT IS TO SEEK MEDICAL ATTENTION IMMEDIATELY**

## SECTION 5.

## FIRE FIGHTING MEASURES

FLASH POINT (Pensky-Martin closed cup): 70.68 °F (21.49°C)

FLAMMABLE LIMITS IN AIR, % BY VOLUME: Isopropanol LOWER: 2.0 HIGHER: 12.7

EXTINGUISHING MEDIA: Use carbon dioxide (CO<sub>2</sub>), dry chemicals, water fog or foam where this product is stored.

SPEC. FIRE FIGHT PROCEDURES: Caution: Flammable. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots, including a positive pressure NIOSH breathing apparatus). Cool fire exposed containers with water spray.

UNUSUAL FIRE & EXPOSURE HAZARD: Containers exposed to heat from fires should be cooled with water spray to prevent pressure build up which could rupture container, containers exposed to direct flame should be cooled with large quantities of water.

## SECTION 6.

## ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Stop spill. Contain spill. Absorb on inert material such as sand, clay, etc. Shovel into approved containers, close, label and send to approved hazardous chemical dump. Neutralize remaining traces. Flush area with water.

NEUTRALIZING CHEMICALS: NA

WASTE DISPOSAL METHOD:

The materials resulting from clean-up operations may be hazardous wastes and therefore subject to specific regulations. Package, store, transport and dispose of all clean-up materials in accordance with all applicable federal, state and local health and EPA regulations.

## SECTION 7.

## HANDLING & STORAGE REQUIREMENTS

STORE IN A COOL, DRY PLACE, KEEP AWAY FROM HEAT. KEEP AWAY FROM HYPOCHLORITE AND STRONG OXIDIZERS.

Keep liquid and vapor away from heat, sparks and flame. Surfaces that are sufficiently hot any ignite even liquid products 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. Vapors may accumulate and travel to ignition sources distant from the handling site; flash-fire can result. Keep containers closed when not in use. Use with adequate ventilation. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers.

Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground transfer containers and equipment.

**SECTION 8.****EXPOSURE CONTROLS/PERSONAL PROTECTION****VENTILATION REQUIREMENTS:**

Use exhaust ventilation to keep airborne concentrations below exposure limits. Special ventilation not usually required. (Ethanol: TLV 1000ppm)

**PERSONAL PROTECTIVE EQUIPMENT: SHOULD ONLY BE NEEDED IF HANDLING LARGE QUANTITIES NOT FOR NORMAL USAGE**

**Respiratory:** Avoid breathing mists or vapors. Use of NIOSH/MSHA approved respirator protection is required when TLV values for airborne materials are met or exceeded. Respiratory protection must be in compliance with 29 CFR 1910.134 & other applicable regulation.

**Eye:** OSHA approved chemical splash goggles. NEVER WEAR CONTACT LENSES. Eye protection must conform to ANSI Z87.1 - 1989.

**Gloves:** Always wear permeation resistant gloves (neoprene, butyl & other rubbers). Consult with glove manufacturer for most resistant glove to material handled.

**Other clothing equipment:** Impervious protective clothing such as rain suits and rubber boots. An emergency eye wash and shower should be in the chemical storage area plus in any area where chemicals are mixed.

**SECTION 9.****PHYSICAL & CHEMICAL PROPERTIES**

<b>BOILING POINT:</b>	180°F	<b>MELTING POINT:</b>	NA
<b>FREEZING POINT:</b>	NA	<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1):</b>	0.89
<b>VAPOR PRESSURE:</b>	30 mmHg at 20°C	<b>VAPOR DENSITY (AIR=1)</b>	NA
<b>SOLUBILITY IN H<sub>2</sub>O, % BY WT:</b>	Soluble	<b>% VOLATILE BY VOLUME:</b>	< 60%
<b>EVAPORATION RATE:</b>	NA	<b>APPEARANCE &amp; ODOR:</b>	Clear solution with a strong alcohol odor
<b>pH:</b>	NA		

**SECTION 10.****STABILITY & REACTIVITY**

<b>CONDITIONS CONTRIBUTING TO INSTABILITY:</b>	Under normal conditions this product is stable.
<b>INCOMPATIBILITY:</b>	Do not mix with strong oxidizing agents. Keep away from ignition sources.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Oxides of carbon.
<b>CONDITIONS CONTRIBUTING TO HAZ. POLYMERIZATION:</b>	None

**SECTION 11.****TOXICOLOGICAL INFORMATION**

Consult Section 3. If more detailed information is required, write to the address listed in Section 1, Attention: Technical Department.

**SECTION 12.****ECOLOGICAL INFORMATION**

This product does not contain phosphates.

**SECTION 13.****DISPOSAL CONSIDERATION**

The materials resulting from clean-up operations may be hazardous wastes and therefore subject to specific regulations. Package, store, transport and dispose of all clean-up materials in accordance with all applicable federal, state and local health & EPA regulations.

**SECTION 14.****TRANSPORT INFORMATION**

Regulatory Information	UN number	Proper shipping Name	Class	Packing Group	Other Information
DOT Classification	UN 1219	ISOPROPANOL	3	II	ORM-D for packages under 1 liters Exempt DOT-SP 9275 for packages under 1 gallon

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

<b>HCS Classification</b>	Flammable liquid, Irritating material
<b>U. S. Federal Regulations:</b>	SARA 302/304/311/312 Extremely Hazardous Substances: No products found SARA 302/304 Emergency Planning and Notification: No products found
<b>TSCA 8(b) inventory:</b>	All materials listed or exempt
<b>California Prop 65:</b>	Not Listed

**SECTION 16.****OTHER INFORMATION**

<b>HIMS Rating Health</b>	2	<b>NFPA Rating</b>	<b>Health</b>	1
<b>Flammability</b>	3		<b>Fire</b>	3
<b>Physical Hazards</b>	0		<b>Reactivity</b>	0

Does not apply to exposure hazards other than during a fire:

All information, recommendations and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable, however, it is the user's responsibility to determine the safety, toxicity and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee expressed or implied, is made by Best Sanitizers, Inc., as to the effect of such use, the results to be obtained, or the safety and toxicity of the product nor does Best Sanitizers, Inc. assume liability arising out of use by others, of the product referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions exist because of applicable laws or government regulations.

**PREPARED BY:** Duncan C. Badertscher

**DATE:** 22 April 2011