Safety Data Sheet

Alpet D2

Section 1 Product Description

Product Name:	Alpet D2
Recommended Uses:	Surface Sanitizer
Synonyms:	Sanitizer-Disinfectant
Distributor:	Best Sanitizers, Inc. PO Box 1360 Penn Valley, CA 95946
Chemical Information Emergency:	
Chemtrec	1.800.424.9300

Section 2 Hazard Identification

OSHA Regulatory Status--This chemical is considered hazardous by the 2012 OSHA Hazard Communication, 29 CFR §1910.1200: This material is an EPA Registered Disinfectant for industrial, institutional and consumer use that is safe for consumers with intended and reasonable foreseeable use. Please follow label directions. NOTE: Warnings below are for exposure to large quantities of the product. Normal usage should not create hazardous conditions.

Flammable liquids — Category 3

Danger

Hazard Statements

Causes serious eye irritation.

Flammable liquid and vapor.

Maybe be harmful if swallowed.

Appearance—Aqueous solution
Physical state—Liquid
Odor— Alcohol Odor

Precautionary Statements—Prevention

Keep away from heat/sparks/open flames/hot surfaces-----No Smoking.
Do not use in eyes.
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.

Precautionary Statements—Response

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 ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin (hair) with water/shower.
In case of fire: Use CO_2, dry chemical, or foam for extinction.

Precautionary Statements—Storage

Stored in a well-ventilated place. Keep Cool.

Precautionary Statements—Disposal

Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)

Not Applicable

Other Information

Unknown Acute Toxicity

Section 3 Composition/Information on Ingredients

Ingredients considered hazardous as defined by OSHA, 29 CFR 1910.1200, WHMIS under the HPA (Canada),

Chemical Name	CAS No.	Weight-%
Isopropyl Alcohol	67-63-0	55-75

Remaining ingredients are non-hazardous and/or present at amounts below reportable limits and considered confidential.

Section 4 First Aid Measures

First Aid Measures

Eye Contact Hold eye(s) open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye(s). If eye irritation persists: Get medical advice/attention.

Skin Contact For accidental exposure to large quantities, wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops.

Inhalation Remove to fresh air. Immediate medical attention is not required.

Ingestion Do NOT induce vomiting. Ingestion of large amounts can cause drowsiness, unconsciousness or cramps. Drink plenty of water. Never give anything by mouth to an unconscious person. Call physician.

Most important symptoms and effects, both acute and delayed

Symptoms See Section 11 for symptom information.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5 Fire-Fighting Measures

Suitable Extinguishing Media

Dry Chemical, Water spray (fog), Carbon dioxide (CO_2), Foam.

Unsuitable Extinguishing Media

No Information available.

Specific hazards arising from the chemical

Flammable. Vapors may travel to source of ignition and flash back.

Hazardous combustion products Carbon Monoxide. Carbon Dioxide (CO_2).

Explosion Data

Sensitivity to Mechanical Impact None

Sensitivity to Static Discharge May be ignited by friction, heat, sparks or flames.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective

gear. Cool containers with flooding quantities of water until well after fire is out.

Section 6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Use personal protection recommended in Section 8. Ensure adequate ventilation, especially in confined areas.
For emergency responders	Isolate area. Keep unnecessary personnel away.

Environment Precautions

Environmental Precautions	Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (See Section 13).
Methods for cleaning up	Use clean non-sparking tools to collect absorbed material. May be ignited by friction, heat, sparks or flames. Collect spillage. Soak up with inert absorbent material,. Sweep up and shovel into suitable containers for disposal. Following product recovery, flush area with water.

Section 7 Handling and Storage

Precautions for Safe Handling

Advice on Safe Handling	Keep away from heat sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Use only in well-ventilated areas. Avoid breathing vapors or mists. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep Containers tightly closed in a dry, cool and well-ventilated place. Keep from freezing. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Store between 40 to 100˚F.
Incompatible materials	Heat, sparks, open flame, other ignition sources. Reacts violently with strong oxidants such as nitric acid and silver nitrate causing fire and explosion hazard. Reacts slowly with calcium hypochlorite and ammonia causing fire and explosion hazard.

Section 8 Protection Information

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m^3 (vacated) TWA: 400 ppm (vacated) TWA: 980 ppm (vacated)STEL: 500 ppm (vacated) STEL: 1225 mg/m^3	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m^3 STEL: 500 ppm STEL: 1225 mg/m^3

Appropriate Engineering Controls

Engineering Controls: Showers, eyewash stations, ventilation system.

Individual Protection Measures, such as personal protective equipment

Eye/Face protection: Wear safety glasses with side shields (or goggles).

Skin and body protection: Wear protective Neoprene™ gloves. Rubber gloves. Normal work clothing (long sleeved shirt and long pants is recommended). Apron is recommended.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations: Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing and shoes before reuse. Do not Eat, Drink or Smoke when using this product.

Section 9 Physical and Chemical Properties

Information on basic physical and chemical properties

Formula:	See Section 3	Physical State:	Liquid
Odor:	Alcohol Smell	Appearance:	Aqueous solution
Odor Threshold:	No Information Available	Color:	Clear

Property	Values	Remarks—Method
pH	5.0-7.0	±1 @ 21˚C
Melting Point/Freezing Point	No Information	
Boiling Point/ Boiling Range	180˚F	
Flash Point	21.49 ˚C / 70.68˚F	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	

Flammability Limit in Air	
Upper flammability limit:	12.7%
Lower flammability limit:	2.0%
Vapor pressure:	30mm Hg @ 20 °C
Vapor density:	No information available
Specific Gravity	0.89
Water solubility	Soluble in water
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

Section 10 Stability and Reactivity Data

Reactivity	No data available.
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks, extreme temperature conditions
Incompatible materials	Heat, sparks, open flame, other ignition sources.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide (CO_2). Nitrogen.

Section 11 Toxicity Data

Information on likely routes of exposure

Product Information

Inhalation	Inhalation of vapors in high concentration may cause irritation of respiratory system.
Eye Contact	Irritating to eyes.
Skin Contact	No irritant under normal use.
Ingestion	May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water, 7732-18-5	> 90 mL/kg (Rat)	-	-
Isopropyl alcohol 67-63-0	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	= 16000 ppm (Rat) 8 h

Information on toxicological effects

Symptoms	No Information Available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No Information Available
Germ cell mutagenicity	No Information Available
Carcinogenicity	IARC: Group 3 (Not classifiable as to its carcinogenicity to humans).
Reproductive toxicity	No Information Available
STOT single exposure	No Information Available
STOT repeated exposure	No Information Available
Aspiration hazard	No Information Available

Numerical measures of toxicity –Product Information

Unknown Acute Toxicity < 0.5% of the mixture consists of direct food additives and 150 ppm of material of unknown toxicity.

The following values are calculated based on Chapter 3.1 of the GHS document

ATE mix (dermal)	21843mg/kg mg/l
ATE mix(inhalation-vapor	NA (Isopropanol Inhalation LC 50 = 16,000 ppm Rat 8 hours)

Section 12 Ecological Data

Ecotoxicity

< **0.**5% of the mixture consists of components(s) of unknow hazards to the aquatic environment.

Chemical Name	Algae/Aquatic Plants	Fish	Crustacea
Isopropyl alcohol 67-63-0	1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50	13299: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No Information Available.

Bioaccumulation

Chemical Name	Partition Coefficient
Isopropyl alcohol 67-63-0	0.05

Mobility

No information available.

Other adverse effects

No information available

Section 13 Disposal Information

Waste treatment methods

Disposal of wastes — Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging — Dispose of in accordance with federal, state and local regulations.

Chemical Name	California Hazardous Waste Status
Isopropyl alcohol 67-63-0	Toxic Ignitable

Section 14 Transport Information

DOT

UN/ID No.	1219
Proper shipping name	Isopropanol
Hazard Class	3
Packing Group	II

Limited Quantities for packages under 1 Liter
Exempt DOT-SP 9275 for packages under 1 gallon

Section 15 Regulatory Information

International Inventories

TSCA	**Complies**
DSL/NDSL	**Complies**
EINECS/ELINCS	**Complies**

Legend:

TSCA—United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL— Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS—European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. Note: Isopropyl alcohol only needs to be reported if it is being manufactured by the strong acid process. Facilities that process or otherwise use isopropyl alcohol are NOT covered and should NOT file a report.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substance regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substance regulated as a hazardous substance under the Comprehensive Environment Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local regional or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Isopropyl alcohol 67-63-0	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number 73232-1

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label includes other important information, including directions for use.

Section 16 Additional Information

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Physical and Chemical Properties**
	2	3	0	None
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal protection**
	2	3	0	B (safety glasses, gloves)

Prepared by:	**Technical Department**
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Disclaimer

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 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.

End of Safety Data Sheet