



your partner in food safety

Issue Date: 13-Mar-20

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Version: New

1. IDENTIFICATION

Product identifier

Product Name Birko San III

Other means of identification

Product Code I03069

UN/ID No UN1219

Recommended use of the chemical and restrictions on use

Recommended Use USDA E3 equivalent hand sanitizing rinse

Details of the supplier of the safety data sheet

Supplier Address

Birko Corporation
9152 Yosemite Street
Henderson, CO 80640-8027
www.birkocorp.com

Emergency telephone number

Company Phone Number Phone: 303-289-1090 or 1-800-525-0476

Fax: 303-289-1190

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Appearance Clear colorless liquid

Physical state Liquid

Odor Alcohol

Classification

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

Signal Word

Warning

Hazard statements

Causes serious eye irritation

Highly flammable liquid and vapor

May cause drowsiness or dizziness



Precautionary Statements:

If medical advice is needed, have product container or label at hand
 Keep out of reach of children.
 Read label before use.
 Keep container tightly closed.
 Keep away from heat/sparks/open flames/hot surfaces. No smoking
 Ground/bond container and receiving equipment
 Use explosion-proof electrical/ventilating/light/.../equipment
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Use only outdoors or in well-ventilated area.
 Wear eye protection.
 Avoid breathing dust/fume/gas/mist/vapors/spray.

Precautionary Statements - Response

IF exposed: Call a POISON CENTER or doctor/physician
 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
 Call a poison center or doctor/physician if you feel unwell
 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 SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth
 In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep container tightly closed
 Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Isopropyl Alcohol	67-63-0	60-80
Propylene Glycol	57-55-6	<1
Laneto 50	8039-09-6	<1
DI Water	7732-18	20-40

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Protect unexposed eye. Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.
Inhalation	Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists.
Ingestion	Induce vomiting. Dilute mouth with water or milk after rinsing. Immediately get medical assistance.

Most important symptoms and effects, both acute and delayed

Symptoms	Shortness of breath. Irritation. Nausea. Headache
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide (CO2). Water spray (fog). Alcohol resistant foam. Water spray can be used to dilute spills to nonflammable mixtures.

Unsuitable Extinguishing Media None

Specific Hazards Arising from the Chemical

Highly flammable liquid and vapor.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2).

Explosion Data

Sensitivity to Static Discharge Take precautionary measures against static discharge.

Protective equipment and precautions for firefighters

Wear protective eyeware. Refer to Section 8. Ensure adequate ventilation. Avoid contact with eyes. Do not inhale gases, fumes, dust, mist, vapors, and aerosols.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions	Keep away from ignition sources. Protect from heat. Ensure that dust-handling systems (exhaust ducts, dust collectors, vessels, and processing equipment) are designed to prevent the escape of dust into work area.
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Environmental precautions

Environmental precautions	Prevent from reaching drains, sewer, or waterway. Should not be released into environment.
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Methods and material for containment and cleaning up

Methods for Containment and Cleanup	Use spark-proof tools and explosion-proof equipment. Have fire extinguishing agent available in case of fire. Always obey local regulations. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. Remove all sources of ignition. Contain spill then collect. Do not flush to sewer. Absorb
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with a noncombustible absorbent material such as sand or earth and containerize for disposal. Refer to Section 13. Ventilate area of spill

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with eyes. Empty containers retain product residue and can be dangerous.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Store in cool location. Store securely in flammable storage area away from sources of ignition. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flames. Keep container tightly sealed. Protect from freezing and physical damage.

Incompatible Materials

Store away from incompatible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 mg/m ³ (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

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Safety glasses with side shields or goggles. Refer to 29 CFR 1910.133 for eye and face protection regulations.

Respiratory Protection

Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state

Liquid

Appearance

Clear Colorless

Color

Various: See Sect. 16

Odor

Odor Threshold

Alcohol

Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not available	
Melting point / freezing point	Below -88 °C	
Boiling point / boiling range	~ 82 °C	(Estimated)
Flash point	~12 °C	(Estimated)
Evaporation Rate	3.0	
Flammability (Solid, Gas)	Flammable	
Flammability Limit in Air		
Upper flammability or explosive limits	12.7%	
Lower flammability or explosive limits	2%	
Vapor Pressure	~ 33 at 20 °C	
Vapor Density	Not determined	
Relative Density	0.785 g/ml at 25 °C	
Water Solubility	Infinite	
Solubility in other solvents	Not determined	
Partition Coefficient	Log Pow: 0.05	
Autoignition temperature	425 °C	
Decomposition temperature	Not determined	
Kinematic viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Heat, flames and sparks, incompatible materials.

Incompatible materials

Strong oxidizers, heat, sparks, open flames. Will attack some forms of rubber, plastics and coatings. May react with metallic aluminum and generate hydrogen gas.

Hazardous decomposition products

Toxic oxides of carbon, acrid and irritating fumes.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity		
Oral:	67-63-0	LD50 Oral – Rat – 5,045 mg/kg
Inhalation:	67-63-0	LC50 Inhalation – Rat – 8h – 16000 ppm
Dermal:	67-63-0	LD50 Dermal – Rabbit – 12,800 mg/kg
Chronic Toxicity: No additional information		
Corrosion/Irritation:		
Dermal:	67-63-0	LD50 Dermal – Rabbit – 12,800 mg/kg
Ocular:	67-63-0	Eyes – Rabbit Result: Eye irritation – 24h
Sensitization:		No additional information
Single Target Organ (STOT):		67-63-0: Inhalation, Oral – May cause drowsiness or dizziness
Numerical Measures:		No additional info
Carcinogenicity:		No additional info

Mutagenicity:	No additional info
Reproductive Toxicity:	No additional info

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Information

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 1400000: 96 h Lepomis macrochirus µg/L LC50 11130: 96 h Pimephales promelas mg/L LC50 static	13299: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Chemical name	Partition coefficient
Isopropyl Alcohol 67-63-0	0.05

Other Adverse Effects

Isopropanol has acute toxicity with effects of death in animals and low growth rates and death in plants. Chronic toxic effects, may be shortened life span, lower fertility, reproductive problems, and changes in appearance and/or behavior in animals.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

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

Contaminated Packaging

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

US EPA Waste Number

California Hazardous Waste Status

Chemical name	California Hazardous Waste Status
Isopropyl Alcohol 67-63-0	Toxic Ignitable

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No

UN1219

Proper Shipping Name	Isopropanol
Hazard class	None
Packing Group	III

IATA

UN number	UN1219
Proper Shipping Name	Isopropanol
Transport hazard class(es)	None
Packing Group	III

IMDG

UN number	UN1219
Proper Shipping Name	Isopropanol
Transport hazard class(es)	None
Packing Group	III
Marine Pollutant	None

15. REGULATORY INFORMATION**International Inventories**

Chemical name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Isopropyl Alcohol	X	X	X	X	X	X	X	X

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**ENCS - Japan Existing and New Chemical Substances**IECSC - China Inventory of Existing Chemical Substances**KECL - Korean Existing and Evaluated Chemical Substances**PICCS - Philippines Inventory of Chemicals and Chemical Substances**AICS - Australian Inventory of Chemical Substances***US Federal Regulations****CERCLA**

None of the ingredients are listed.

SARA 313

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Isopropyl Alcohol - 67-63-0	67-63-0	5-10	1.0

CWA (Clean Water Act)

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

US State Regulations**California Proposition 65**

None of the ingredients are listed.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Isopropyl Alcohol 67-63-0	X	X	X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards 1	Flammability 3	Instability 0	Special Hazards -
<u>HMIS</u>	Health Hazards 1	Flammability 3	Physical hazards 0	Personal Protection X

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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 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.

End of Safety Data Sheet