

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification	
Product number	50JC1250
Product name	JET-O-CIDE DISINFECTANT SPRAY
Effective date	02-SEP-2011
Company information	BRULIN & COMPANY P.O. Box 270 Indianapolis, IN 46206
Company phone	General Assistance 317-923-3211
Emergency telephone US	1-800-559-5855
Emergency telephone outside US	703-527-3597
Version #	01

2. Hazards Identification	
Emergency overview	Aerosol. FLAMMABLE CONTENTS UNDER PRESSURE Will be easily ignited by heat, spark or flames. Contact with eyes may cause irritation. Prolonged exposure may cause chronic effects.
Potential health effects	Eye contact: Skin contact: Ingestion: Moderately irritating to the eyes. Harmful if absorbed through the skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Prolonged inhalation may be harmful.
Routes of exposure	Eye contact: Skin contact: Ingestion.
Eyes	Moderately irritating to the eyes.
Skin	Harmful if absorbed through the skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Prolonged inhalation may be harmful.
Ingestion	Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage. Components of the product may be absorbed into the body by ingestion.
Target organs	Blood, Central nervous system, Lungs.
Chronic effects	Unconsciousness, Cyanosis (blue tinge condition, nails, lips, and/or skin). May cause central nervous system disorder (e.g., ataxia involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may irritate and dry the skin, leading to discomfort and dermatitis. May cause delayed lung injury.
Signs and symptoms	Discomfort in the chest, Nausea, Cyanosis (blue tinge condition, nails, lips, and/or skin), Coughing, Jaundice, Defting of the skin, Skin irritation, Corneal damage.

3. Composition / Information on Ingredients		
Components	CAS #	Percent
Ethyl Alcohol	64-17-5	40 - 50
n-Butane	106-97-8	15 - 20
Propane	74-99-6	5 - 8
Methanol	67-56-1	1 - 3
Non-hazardous and other components below reportable levels		20 - 40

4. First Aid Measures	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or Poison Control Center immediately.
Skin contact	Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. Move to fresh air. Get medical attention if symptoms persist.
Inhalation	Move to fresh air. Get medical attention if symptoms persist.

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Color	colorless
Density	0.7516 g/cm ³ estimated
Flammability (HOC)	25.0491 kJ/g estimated
Flash back	Yes
Flash point	-159 °F (-104.4 °C) Propellant
Form	Aerosol.
Freezing point	Not available
Odor	Fruity alcoholic
pH	9.5 - 10.5
Physical state	Liquid.
Pressure	75 - 69 psig @ 70F
Solubility	Partially
Specific gravity	0.7517

10. Chemical Stability & Reactivity Information	
Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	May include oxides of nitrogen.

11. Toxicological Information	
Acute effects	Acute LC50: 61 mg/l-4h estimated, Rat, Inhalation
Component analysis - LD50	
Toxicology Data - Selected LD50s and LC50s	
Ethyl Alcohol	64-17-5 Oral LD50 Rat 7000 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4h
Methanol	67-56-1 Inhalation LC50 Rat 83.2 mg/L 4h; Inhalation LC50 Rat 64000 ppm 4h; Oral LD50 Rat 6078 mg/kg; Dermal LD50 Rabbit 15800 mg/kg
n-Butane	106-97-8 Inhalation LC50 Rat 658 mg/L 4h
Propane	74-99-6 Inhalation LC50 Rat 658 mg/L 4h
Sensitization	Not expected to be hazardous by OSHA criteria.
Carcinogenicity	
IARC - Group 1 (Carcinogenic to Humans)	
Ethyl Alcohol	64-17-5 Monograph 100E [in preparation] (in alcoholic beverages); Monograph 69 [in preparation] (in alcoholic beverages)
Teratogenicity	Animal experiments showed mutagenic and teratogenic effects.

12. Ecological Information	
Ecotoxicity	LC50 1730 mg/L, Fish, 96 Hours, EC50 631 mg/L, Daphnia, 48 Hours, Contains a substance which causes risk of hazardous effects to the environment.

13. Disposal Considerations	
Waste codes	D001: Waste Flammable material with a flash point <140 F
Disposal instructions	Contains under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If incinerated, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

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Ingestion	In the unlikely event of swallowing contact a physician or poison control center.
Notes to physician	Keep victim under observation.
5. Fire Fighting Measures	
Flammable properties	Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.
Extinguishing media	Stable extinguishing media Foam, Dry chemical, Carbon dioxide (CO ₂)
Protection of firefighters	In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up.

6. Accidental Release Measures	
Methods for containment	Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk.
Methods for clearing up	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

7. Handling and Storage	
Handling	Pressurized container. Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not re-use empty containers. Do not get this material in contact with eyes. Avoid breathing dust/fume/gas/mist/vapor/spray. Avoid contact with skin.
Storage	Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Do not handle or store near an open flame, heat or other sources of ignition. Avoid exposure to long periods of sunlight. Store in cool place. Keep out of the reach of children. Keep away from food, drink and animal feedstuffs. Level 2 Aerosol.

8. Exposure Controls / Personal Protection					
Exposure limits					
ACGIH	Components	CAS #	TWA	STEL	Ceiling
	Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	Not established
	n-Butane	106-97-8	1000 ppm	Not established	Not established
	Propane	74-99-6	1000 ppm	Not established	Not established
	Methanol	67-56-1	200 ppm	250 ppm	Not established
OSHA	Components	CAS #	TWA	STEL	Ceiling
	Ethyl Alcohol	64-17-5	1000 ppm	Not established	Not established
	Propane	74-99-6	1000 ppm	Not established	Not established
	Methanol	67-56-1	200 ppm	Not established	Not established

Personal protective equipment	
Eye / face protection	Do not get in eyes. Chemical goggles are recommended.
Skin protection	Chemical resistant gloves.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

9. Physical & Chemical Properties	
Appearance	Compressed liquefied gas.
Boiling point	136.4 °F (57.8 °C) estimated

14. Transport Information

Department of Transportation (DOT) Requirements	
Basic shipping requirements:	
Proper shipping name	Consumer commodity
Hazard class	ORM-D
Subsidiary hazard class	None
Additional information:	
Packaging exceptions	155, 306
Packaging non bulk	155, 306
Packaging bulk	None

IMDG	
Basic shipping requirements:	
Proper shipping name	AEROSOLS
Hazard class	2.1
UN number	1950
Additional information:	
Packaging exceptions	LTD QTY
Item	5F
Labels required	None
Transport Category	2

IATA	
Basic shipping requirements:	
Proper shipping name	Aerosols, flammable
Hazard class	2.1
UN number	1950
Additional information:	
Packaging exceptions	LTD QTY
Labels required	-21



15. Regulatory Information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Pesticides are exempt from TSCA.
U.S. - CERCLA/SARA - Section 313 - Emission Reporting	Methanol 67-56-1 1.0 % de minimis concentration
Occupational Safety and Health Administration (OSHA)	29 CFR 1910.1200 hazardous chemical Yes
CERCLA (Superfund) reportable quantity	Methanol: 5000 0000
Superfund Amendments and Reauthorization Act of 1986 (SARA)	Section 302 extremely hazardous substance No
	Section 311 hazardous chemical Yes
Hazard categories (311/312)	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

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Inventory status	Inventory name	On Inventory (yes/no)
China	Inventory of Existing Chemical Substances in China (IECS)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

Ethyl Alcohol	84-17-5	Present
Methanol	67-56-1	Environmental hazard
n-Butane	106-97-8	Present
Propane	74-82-6	Present

WARNING: This product contains a chemical known to the State of California to cause cancer.

16. Other Information

Further information	HMS® is a registered trade and service mark of the NPCC.
HASB ratings	Health: 1 Flammability: 3 Physical hazard: 0 Personal protection:
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 guideline 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 list. The information in the sheet was written based on the best knowledge and experience currently available.
Prepared by	Regulatory Compliance