



MATERIAL SAFETY DATA SHEET

U.S. DEPARTMENT OF LABOR Occupational
Safety and Health Administration
(Prepared According to 29 CFR 1910.1200)

PRODUCT NAME: ZERO IN Wasp & Hornet	PRODUCT TYPE: Aerosol Wasp & Hornet Spray DOT CLASS: ORM-D Consumer Commodity HMIS: Health:= 1; Flammability:= 4; Reactivity:= 0 and Personal Protection: NA
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MANUFACTURED FOR DYNACCO INC P O BOX 27 17461 – 147 TH STREET SE MONROE, WA 98272	INFORMATION PHONE: 360-794-8974
	24-HOUR EMERGENCY: CHEMTEL (800) 255-3924
	EFFECTIVE DATE: September 8, 2011

2. Hazards Identification

Emergency overview	Aerosol. FLAMMABLE CONTENTS UNDER PRESSURE. Will be easily ignited by heat, spark or flames.
Potential health effects	
Routes of exposure	Eye contact. Skin contact. Ingestion.
Eyes	Moderately irritating to the eyes.
Skin	Harmful if absorbed through the skin.
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal.
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	Lungs.
Chronic effects	May cause delayed lung damage.
Signs and symptoms	Discomfort in the chest. Corneal damage. Coughing. Skin irritation.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Paraffinic, Naphthenic Solvent	64742-47-8	80 - 90
Isopropyl Alcohol	67-63-0	8 - 10
Carbon Dioxide	124-38-9	1 - 3
Non-hazardous and other components below reportable levels		1 - 2.5

4. First Aid Measures

First aid procedures	
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. Get medical attention immediately.
Skin contact	Remove and isolate contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.
Ingestion	If material is ingested, immediately contact a poison control center. Do not induce vomiting without advice from poison control center. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Notes to physician	Symptoms may be delayed.

5. Fire Fighting Measures

Flammable properties	Heat may cause the containers to explode. Runoff to sewer may cause fire or explosion hazard.
Extinguishing media	
Suitable extinguishing media	Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Protection of firefighters	
Protective equipment and precautions for firefighters	In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up. Cool containers with flooding quantities of water until well after fire is out. Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

6. Accidental Release Measures

Methods for containment	Stop leak if you can do so without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). 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 cleaning up	Should not be released into the environment. 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. After removal flush contaminated area thoroughly with water.

7. Handling and Storage

Handling	Pressurized container: Do not pierce or burn, even after use. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. 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. Avoid contact with skin. Avoid prolonged exposure.
Storage	Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat and sources of ignition. Avoid exposure to long periods of sunlight. Store in cool place. Keep in an area equipped with sprinklers. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Level 3 Aerosol.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling
Isopropyl Alcohol	67-63-0	200 ppm	400 ppm	Not established
Carbon Dioxide	124-38-9	5000 ppm	30000 ppm	Not established

OSHA

Components	CAS #	TWA	STEL	Ceiling
Isopropyl Alcohol	67-63-0	400 ppm	Not established	Not established
Carbon Dioxide	124-38-9	5000 ppm	Not established	Not established

Personal protective equipment

Eye / face protection

Do not get in eyes. Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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.
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Boiling point	395.6 °F (202.2 °C) estimated
Color	Colorless.
Density	0.8485 g/cm ³ estimated
Flammability (HOC)	38.771 kJ/g estimated
Flash back	No
Flash point	53 °F (11.7 °C) Concentrate
Form	Aerosol.
Freezing point	Not available
Odor	Solvent.
pH	Not applicable
Physical state	Liquid.
Pressure	90 - 110 psig @ 70F
Solubility	Partially
Specific gravity	0.8486 estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Risk of ignition.
Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological Information

Acute effects	Acute LD50: 2237 mg/kg estimated, Rat, Dermal	
Component analysis - LD50		
Toxicology Data - Selected LD50s and LC50s		
Isopropyl Alcohol	67-63-0	Inhalation LC50 Rat 72.6 mg/L 4 h; Oral LD50 Rat 4396 mg/kg; Dermal LD50 Rat 12800 mg/kg; Dermal LD50 Rabbit 12870 mg/kg
Paraffinic, Naphthenic Solvent	64742-47-8	Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg
Sensitization	Not expected to be hazardous by OSHA criteria.	
Teratogenicity	Not expected to be hazardous by OSHA criteria.	

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.
	LC50 48.72 mg/L, Fish, 96.00 Hours, IC50 11769 mg/L, Algae, 72.00 Hours, EC50 629 mg/L, Daphnia, 48.00 Hours,

13. Disposal Considerations

Disposal instructions	Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
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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	156, 306
Packaging non bulk	156, 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 2.1

**15. Regulatory Information****US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Isopropyl Alcohol 67-63-0 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

None

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 - No
 Fire Hazard - Yes
 Pressure Hazard - Yes
 Reactivity Hazard - No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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)	Yes
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**

Carbon Dioxide	124-38-9	Present
Isopropyl Alcohol	67-63-0	Environmental hazard
Paraffinic, Naphthenic Solvent	64742-47-8	Present

16. Other Information

Further information	HMIS® is a registered trade and service mark of the NPCA.
HMIS® ratings	Health: 1 Flammability: 4 Physical hazard: 0
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. The information in the sheet was written based on the best knowledge and experience currently available. 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.
MSDS sections updated	Product and Company Identification: Product and Company Identification Exposure Controls / Personal Protection: Eye protection Exposure Controls / Personal Protection: Skin and body protection Physical & Chemical Properties: Appearance
Prepared by	Regulatory Compliance