

SECTION 3 : HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Aerosol can intended to be used as a spray.
Caution: Contents under pressure.
Do not store at temperatures above 50° C (120° F)
Do not puncture or incinerate.
Avoid fire, flame and other sources of ignition
Flammable aerosol.

POTENTIAL HEALTH EFFECTS:

Routes of exposure:

INHALATION: High vapour concentrations may cause drowsiness.
Mild irritation to the nose, throat and respiratory tract.

SKIN CONTACT: Minor irritation to skin.

EYE CONTACT: Minor irritation to eyes.

INGESTION: May cause abdominal discomfort.

OTHER HEALTH EFFECTS: None known

SECTION 4: FIRST AID MEASURES

INHALATION: Move victim to fresh air. If irritation symptoms persist, get medical attention . If breathing has stopped, a trained person should perform an artificial respiration, otherwise get medical attention.

SKIN CONTACT: Wash off with soap and water. If irritation persists get medical attention.

EYE CONTACT: Immediately flush with water for fifteen minutes. If irritation persists get medical attention.

INGESTION: If swallowed do not induce vomiting. If conscious drink 1-2 glasses of water or milk. If vomiting occurs naturally, have victim lean forward to avoid aspiration. Otherwise get medical attention.

SECTION 5: FIRE FIGHTING MEASURES
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FLASH POINT : < -42 °C (-43.6°F)
propellant only

Method used Tag closed cup
X Estimated

FLAMMABLE LIMITS IN AIR (% by Volume)

LOWER : 3.4
UPPER : 18.0

AUTO IGNITION TEMPERATURE : N/A °C

EXTINGUISHING MEDIA : Dry chemical, CO2, Foam, water.

SPECIAL FIRE FIGHTING : Water from fogging nozzles may be used to cool closed containers
PROCEDURE : to prevent pressure build up if exposed to extreme temperatures.
Treat as NFPA (National Fire Protection Association) Level 2 aerosol .

UNUSUAL FIRE AND : Container may explode if exposed to temperatures > 50° C(120° F)
EXPLOSION HAZARDS : Sensitive to shock
Sensitive to static discharge.

FLAMMABILITY OF AN AEROSOL IS DETERMINED BY FLAME PROJECTION:
THE FLAME PROJECTION OF THIS PRODUCT IS CLASSIFIED AS:

 ZERO cm (NON-FLAMMABLE)
 0 - 15 cm (CAUTION)
 15- 45 cm (WARNING)
 X OVER 45 cm (DANGER)

HAZARDOUS COMBUSTION PRODUCTS : Hydrocarbon fumes and smoke, CO where combustion is incomplete.

SECTION 6 : ACCIDENTAL RELEASE MEASURES
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CONTAINMENT AND : Since this product is a sealed aerosol, accidental discharge of contents is unlikely
CLEAN UP PROCEDURES: unless the can is punctured . Should this occur, eliminate all sources of ignition.
Dike and contain the free liquid and absorb on vermiculite or spill pillows.
Use inert absorbent material.

PERSONAL PROTECTIVE : Plastic or rubber gloves, apron may be required for clean up of large spills.
EQUIPMENT: Respiratory protection may need to be utilized, depending upon the size of the spill.

SECTION 7 :	HANDLING AND STORAGE
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HANDLING: Flammable aerosol
Do not use near heat, fire, flame and other sources of ignition.
Contents under pressure.
Do not puncture or incinerate.
Avoid spraying in the eyes.

STORAGE: Store in well ventilated area.
Do not store at temperatures above 50° C (120° F)
Do not store near heat, fire, flame and other sources of ignition
Protect against physical damage

SECTION 8 :	EXPOSURE CONTROL/PERSONAL PROTECTION
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ENGINEERING CONTROLS: None required for product use.
For handling large quantities of the product, such as in the manufacturing or warehouse, ventilation should be utilized.
Testing of aerosol cans should be performed with explosion-proof ventilation equipment.

VENTILATION: Local exhaust ventilation is not required for product use.
Use mechanical exhaust when ever is used indoors or on a continuous basis.

RESPIRATORY PROTECTION: None required for product use.
For manufacturing of the product, respiratory protection may be considered.
Ensure that the respirator meets current local Occupational Health and Safety Standards. Organic cartridges should be utilized with filtering respiratory protection.

EYE PROTECTION: None required for product use.
For handling large quantities of the product, such as in the manufacturing or warehouse, safety glasses /goggles are recommended.

SKIN PROTECTION: None required for product use.
For handling large quantities of the product, such as in the manufacturing or warehouse, plastic or rubber gloves are recommended.

EXPOSURE LIMITS:

OSHA PEL-TWA:	1000 ppm	Dimethyl ether
NTP :	1000 ppm	Dimethyl ether
ACGIH TLV-TWA :	1000 ppm	Dimethyl ether
IARC :	1000 ppm	Dimethyl ether
NIOSH REL :	1000 ppm	Dimethyl ether

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

THE FOLLOWING PHYSICAL DATA ARE APPROXIMATE ONLY AND DO NOT REPRESENT SPECIFICATION VALUES.THEY SHOULD ONLY BE USED IN THE CONTEXT OF THIS MATERIAL SAFETY DATA SHEET

APPEARANCE AND ODOUR	: Aerosol can dispensing liquid material /fragranced.
PHYSICAL STATE	: Mixture of Liquids, Clear slight straw
BOILING POINT (°C)	: N/A
MELTING POINT(°C)	: N/A
FREEZING POINT(°C)	: N/A
VAPOUR PRESSURE (psig at 21 °C)	: 40 -60 psig
VAPOUR DENSITY (AIR=1)	: > 1
SPECIFIC GRAVITY (WATER=1)	: .850- 1.000
EVAPORATION RATE (n-BUTYL ACETATE=1)	: <1
SOLUBILITY IN WATER (%by Wt)	: 30%
%VOLATILE BY VOLUME	: 30%
pH	: N/A

SECTION 10: STABILITY AND REACTIVITY
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STABILITY	: Stable under normal conditions.
HAZARDOUS POLYMERIZATION	: Will not occur.
CONDITIONS TO AVOID	: Heat, fire, flame and other sources of ignition.
MATERIALS TO AVOID	: Strong oxidizers. Alkali materials and their hydroxides.
HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS	: Hydrocarbon fumes and smoke, CO where combustion is incomplete.

SECTION 11 : TOXICOLOGICAL INFORMATION

ACUTE EXPOSURE:

EFFECTS OF OVEREXPOSURE: Dizziness, nausea, irritation to skin and eyes.

<u>INGREDIENT</u>	<u>LD50(Oral,Rat)</u>	<u>LD50(Dermal, Rabbit)</u>	<u>LC50(Inhal. Rat, 4hr)</u>
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PROPELLANT(S):

Dimethyl Ether 308 000 mg/M³ (4hr)

CHRONIC EXPOSURE:

CARCINOGENICITY OF PRODUCT : OSHA : Not recognized as carcinogenic
ACGIH : Not recognized as carcinogenic
NTP : Not recognized as carcinogenic
IARC : Not recognized as carcinogenic

REPRODUCTIVE EFFECTS : No adverse reproductive effects are anticipated

TERATOGENICITY : No adverse teratogenic effects are anticipated

MUTAGENICITY : No adverse mutagenic effects are anticipated

SYNERGISTIC PRODUCTS : None known

SENSITIZATION TO: RESPIRATORY TRACT: Mild irritation to the nose, throat .
SKIN CONTACT: Minor irritation to skin.
EYE CONTACT: Minor irritation to eyes.
INGESTION: May cause abdominal discomfort

SECTION 12 : ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: All precautions should be taken to prevent contact with the environment. Spills and leaks should be immediately cleaned up and removed. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

ECOTOXICITY : Base oils are not eco-toxic (48hr crustacean: LC50 = >3200mg/L).

DEGRADABILITY: Base oils are considered readily biodegradable (BOD: Over 60% in 28 days).

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD : Apply all Federal, Provincial, Municipal ,State laws and Regulations regarding disposal.

HOUSEHOLD DISPOSAL METHOD: User may discard empty container after flaring off vapours at safe location, then place in recycle trash ONLY where such programs exist.

SECTION 14 : TRANSPORTATION INFORMATION

NORTH AMERICA

CANADIAN TDG ACT SHIPPING DESCRIPTION:

US DOT CLASSIFICATION (49CFR 172.101,172.102)

GROUND: ORM-D ; Consumer commodity.

IN CONSUMER PACKAGING

SHIPPING NAME: Aerosol
HAZARD CLASS : 2.1 Flammable aerosol
ID NUMBER: UN 1950
PACKAGE CERTIFICATION CODE: LTD. QTY.

TRANSPORT VIA WATER(IMDG):

IN CONSUMER PACKAGING: Limited Quantity
SHIPPING NAME: Aerosol
HAZARD CLASS : 2.1 Flammable aerosol
ID NUMBER: UN 1950
PACKAGE CERTIFICATION CODE: LTD. QTY.

TRANSPORT VIA AIR(IATA):

IN CONSUMER PACKAGING : Limited Quantity
SHIPPING NAME: Aerosol

PRODUCT NAME: Orontas Lubricant (RD-6-133E)
MSDS

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HAZARD CLASS : 2.1 Flammable aerosol
ID NUMBER: UN 1950
PACKAGE CERTIFICATION CODE: Y203 LTD. QTY.

SECTION 15:	REGULATORY INFORMATION
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CANADA:
WHMIS CLASSIFICATION : A, D-2B, B-5 Flammable Aerosol
HMIS USA : Health 1, Flammability 4, Reactivity 1
UN 1950 : Flammable Aerosol

SECTION 16:	OTHER INFORMATION
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DATE OF PREPARATION: Nov. 10, 2010

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