

OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200 **DATE: 9-01-05**
MATERIAL SAFETY DATA SHEET

A+ ELECTRICAL CONTACT CLEANER RT620A

MATERIAL IDENTIFICATION

A+ is a trademark of REFRIGERATION TECHNOLOGIES

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HAZARDOUS INGREDIENTS

Hazardous Components	CAS#	OSHA PEL	ACHIG TLV
1,1,3,3 Pentafluoropropane 90%	460-73-1	N/A	N/A
1,1,1,2 Tetrafluoroethane 10%	811-97-2	N/A	N/A

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (Concentrate): 59.5 F (15 C)
Evaporation Rate (Concentrate): (n-Butyl Acetate=1) Greater than 1
Vapor Density (Concentrate): Heavier than air
Weight per gallon (Concentrate) 10.42 lb./gal.
pH (Concentrate): N/A
Odor: Faint ether like odor
Viscosity: N/A
Solubility in water: Slight
Appearance: Colorless
VOC content: Exempt
Flash Point: None

STABILITY AND REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products:

Hydrogen fluoride, Carbon Dioxide, Carbon Monoxide, Carbonyl Halides, and other unidentified organic compounds may be formed during combustion.

Conditions to avoid: High temperatures/above 120 F, Open Flames, Sparks

Materials to Avoid: Strong alkali or alkaline earth metals, finely powdered metals such as aluminum, magnesium or zinc, hydrochloric acid.

FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: Nonflammable (Aerosol)

NFPA Hazard Rating H=1 F=0 R=1 S=0

Extinguishing Media: Water Fog, "Alcohol" Foam, Dry Chemical or CO2

Unusual Fire and Explosion Hazards: Aerosols will burst at temperatures above 130 F (55C).

Containers exposed to intense heat from fires must be cooled with water to prevent vapor pressure build up that could result in container rupture.

Special Fire Fighting Procedures: The use of self-contained breathing apparatus is recommended for fire fighters. Water may be used on containers exposed to intense heat from fires to prevent vapor pressure build-up that could result in container rupture. Keep containers cooled with water and remove them from danger as soon as possible. If aerosols are bursting, stay clear until bursting is completed. Aerosols can be projectiles when bursting.

NFPA 30 B Storage Classification of Aerosol: Level 1

HAZARDS IDENTIFICATION

Irritant to Eyes and slight skin irritant

Effects of Overexposure

Eyes: May cause mild to severe eye irritation

Skin: Slight irritant. Prolonged or repeated contact can result in defatting and drying of the skin that may result in skin irritation and dermatitis.

Skin Absorption: None to slight

Inhalation: Excessive inhalation of vapors can cause nasal and respiratory irritation, feeling of euphoria, anesthetic effects, dizziness, weakness, nausea, headache, possible unconsciousness, and even asphyxiation. Inhalation of HFC 245fa may cause an increase in the heart function.

Target organ toxin: Central Nervous System, Respiratory System, and Heart.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea

Chronic Effects: None known at this time

Primary Routes of Entry: Inhalation, Dermal

TOXICOLOGICAL INFORMATION

Eyes: May cause mild to severe eye irritation

Skin: Slight irritant to skin. Prolonged or repeated contact can result in defatting drying of the skin that may result in skin irritation and dermatitis.

Skin Absorption: None to Slight

Inhalation: Excessive inhalation of vapors can cause nasal and respiratory irritation, feeling of euphoria, anesthetic effect, dizziness, weakness, nausea, headache, possible unconsciousness, and even asphyxiation.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea

Chronic Effects: None known at this time.

Primary Routes of Entry: Inhalation, Dermal

FIRST AID MEASURES

Emergency and First Aid Procedures

Eyes: Remove contact lens. Flush with plenty of water for 15 minutes, if irritation persists, get medical attention.

Skin: Thoroughly wash the exposed area. If any irritation persists, get medical attention.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention. Never give anything by mouth to an unconscious person.

Ingestion: Drink large amounts of water. DO NOT induce vomiting. Get medical attention IMMEDIATELY

EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection: If used with adequate ventilation, no protective equipment is necessary. In enclosed spaces if exposure limits are exceeded use a NIOSH approved cartridge respirator.

Ventilation: A well-ventilated room with adequate air circulation.

Protective Equipment: Chemical goggles if likelihood of eye contact. Wear chemical-resistant gloves and other clothing as required minimizing prolonged or repeated contact with skin.

Hygienic Practices: Wash well with soap and water, after use of product.

HANDLING AND STORAGE

Steps to be taken: Product is considered non-flammable. However, keep containers cool in temperatures below 120 f and away from heat, sparks,, and flame, extremely hot metal, heating elements, combustion engines. Extinguish pilot lights, cigarettes or other sources of ignition. Do not puncture or burn even after use. Use with adequate ventilation. Keep containers dry, closed, and upright when not in use. Maintain good personal hygiene and housekeeping. KEEP OUT OF REACH OF CHILDREN. Avoid Contact with Eyes.

ACCIDENTAL RELEASE MEASURES

Steps to be Taken: Keep sources of ignition and hot metal surfaces isolated from the spill. Small leaks can be mopped or wiped up immediately. Remove materials to out-of-doors. Large leaks should be handled as follows: Evacuate area. Contain liquid, transfer to closed containers. Keep out of water supplies.

WASTE DISPOSAL

Dispose in accordance with local, state and federal regulations. Disposal should be carried out under EPA, State and Federal laws.

TRANSPORTATION INFORMATION:

DOT

Shipping Name: Consumer Commodity

Hazard Class: ORM-D

IMDG (by water overseas)

Shipping Name: Aerosols

Class: 2.2

UN # 1950

Label: None

IMDG Code: Page 2102

By Air (IATA)

Shipping Name: Consumer Commodity
Class: 2.2 ID No.: 8000
Label: Miscellaneous Dangerous Goods
Packaging Instruction: 910

ECOLOGICAL INFORMATION

Product is in recyclable aluminum container

REGULATORY INFORMATION

Hazardous Classification: Non-Flammable

California Proposition 65: The following statement is made in compliance with the California Safe Drinking and Toxic Enforcement Act of 1988: This material **does not** contain any chemicals known to the State of California to cause cancer.

The information contained in this Material Safety Data Sheet is furnished without warranty of any kind, expressed or implied. Information in this Data Sheet has been assembled by the manufacturer based on its own studies and on the work of others and is believed to be correct as of the date issued. However, No warranty of any kind is expressed or implied as to the accuracy, completeness, or adequacy of the information obtained herein. The Manufacturer shall on be liable, regardless of fault, to the vendee, the vendee's employees, or anyone for any direct, special or consequential damages arising out or in connection with the accuracy, completeness or adequacy of the information obtained herein. It is intended to assist in the normal safe usage of the product.