



THERMO KING

World Leader in Transport Temperature Control





Ingersoll Rand

Fragrance – Bottle Envirofresh	Part Number # 203-0553
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Section I – Material Identity, Manufacturer, Emergency Information and Preparation Information

Manufacturer's Name Thermo King Corporation	Emergency Telephone Number 952.887.2200
Address 314 West 90th Street	Telephone Number for Information 952.887.2200
Bloomington, MN 55420	Date Prepared March 6, 2007
NFPA Ratings [0] Health [2] Flammability [1] Reactivity	Prepared by William R. Stuart

HEALTH	0
2	1
PERSONAL PROTECTION	
 Gloves	 Splash Goggles

Section II – Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	Percent	CAS, NA or UN Number	OSHA Permissible Exposure Limit (PEL)*	ACGIH Threshold Limit Value (TLV)*	Other Limits Recommended
Trade Secret			Not established	Not established	

Note C- Ceiling Concentration, ST – Short-term exposure limit (15 minute TWA), TWA – Time weighted average; skin – can be absorbed through the skin and add to total exposure

*Federal OSHA PEL may differ from State OSHA PEL. Refer to State OSHA regulations where applicable

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Boiling Point	Not determined	Specific Gravity (H ₂ O = 1)	1.0162
Vapor Pressure (mm Hg.)	Not determined	Melting Point	Not applicable
Vapor Density (AIR = 1)	>1	Evaporation Rate (Butyl Acetate = 1)	Not determined
Solubility in Water 0 g/l			
Appearance and Odor Physical Form Liquid Color. Pale yellow Odor Lemon scent Viscosity Not determined pH. Not determined. Volatile Content >20.00 %			

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) 145°F	Flammable Limits	LEL Not determined	UEL Not determined
Extinguishing Media CO ₂ , foam or dry chemical			
Special Fire Fighting Procedures Sealed containers exposed to heat can build up pressure Use water spray to cool fire-exposed surfaces and to protect personnel			
Unusual Fire and Explosion Hazards None known			

Section V – Reactivity Data

Stability	Stable	X	Conditions to Avoid: None
Incompatibility (Materials to Avoid) Strong oxidizing material			
Hazardous Decomposition or Byproducts Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products Carbon oxides and traces of incompletely burned carbon compounds			
Hazardous Polymerization	Will Not Occur	X	Conditions to Avoid.

Section VI – Health Hazard Data

Route(s) of Entry	Inhalation? Yea	Skin? Yes	Ingestion? Yes – not likely
Health Hazards (Acute and Chronic) Acute Effects Eye Contact with eyes may cause irritation Skin Contact with skin may cause irritation. Inhalation. May cause irritation of the nose, throat and lungs. Vapors may cause dizziness and drowsiness Oral May cause nausea and vomiting. Large quantities may affect the central nervous system Chronic (Prolonged/Repeated Exposure) Effects No chronic adverse effects anticipated under normal product use			
Carcinogenicity	NTP? No known applicable information	IARC Monographs? No known applicable information	OSHA Regulated? No



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Signs and Symptoms of Exposure

Eye Contact May produce burning sensation

Skin Contact May produce irritation or itching of the skin. Frequent or prolonged contact with concentrated material may cause dermatitis

Inhalation May cause dizziness and nausea.

Medical Conditions Generally Aggravated by Exposure

No known applicable information

Emergency and First Aid Procedures

Eye Contact - If material comes in contact with the eyes, immediately wash the eyes with large amounts of water for 15 minutes, occasionally lifting the lower and upper lids. Seek medical attention if irritation persists

Skin Contact - If the material comes in contact with the skin, wash the contaminated skin with soap and water promptly. If the material penetrates through clothing, remove the clothing and wash the skin with soap and water promptly. If irritation persists after washing, get medical attention immediately.

Inhalation - Move the exposed person to fresh air at once. Give oxygen if breathing is labored. If breathing has stopped, perform artificial respiration. Keep the person warm and at rest. Get medical advice as soon as possible.

Ingestion - If material has been swallowed, give milk or water. Do not induce vomiting. Get medical advice immediately

Comments Treat symptomatically.

Section VII – Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Observe all personal protection equipment recommendations described in Sections 5 and 8. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since some materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable.

Waste Disposal Method

Incineration or sanitary landfill in accordance with local, state and federal regulations.

Other Precautions

State or local laws may impose additional regulatory requirements regarding disposal. Check with your state regulations regarding disposal of components listed in Section II.

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Normally not required, if exposure limits are exceeded use a NIOSH approved organic vapor respirator. Self-contained breathing apparatus is recommended for entry into confined spaces or other poorly ventilated areas and for large spill clean-up sites.

Ventilation	Local Exhaust Ventilate to control mists and vapors below exposure limits	Special None
	Mechanical (General) Recommended	Other Use only in well ventilated areas.

Protective Gloves Chemical resistant, impervious (nitrile) gloves recommended	Eye Protection Use proper protection - For mist operations, use chemical goggles or face shield.
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Other Protective Clothing or Equipment

Work/Hygienic Practices

Personal Protective Equipment for Routine Handling

Eyes Use proper protection - safety glasses as a minimum

Skin Washing at mealtime and end of shift is recommended

Suitable Gloves Impervious (nitrile) gloves recommended

Suitable Respirator Normally not required



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Personal Protective Equipment for Spills

Eyes Use proper protection - safety glasses as a minimum

Skin Washing at mealtime and end of shift is recommended.

Suitable Gloves

Inhalation/Suitable

Respirator Organic Vapor Cartridge recommended for highly concentrated atmospheres

Precautionary Measures Avoid eye contact Use reasonable care

Note These precautions are for room temperature handling Use at elevated temperature or aerosol/spray applications may require added precautions

Section IX – Transportation and handling

Store in full, airtight containers away from sunlight, heat, fire and open flame Use grounding wire on metal containers and equipment to prevent static electric ignition of vapors.

Various federal, state or provincial agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be covered in this MSDS. The user must review these regulations to ensure full compliance.

Section X – Additional Information

WARNING: This product must not be used to conceal any hazardous or dangerous vapors or conditions Where such dangerous or hazardous vapors or conditions exist, appropriate hazard communication must be provided to those persons expected to come in contact with the hazardous products or conditions

Because of conditions beyond our control, it is the user's responsibility to determine safe and satisfactory conditions for use of this product

The information and recommendations contained herein have been compiled from sources believed to be reliable and represent current opinion on the subject No warranty, guarantee, or representation is made by Thermo King Corporation or the author, as to the absolute correctness or sufficiency of any representation contained herein and assumes no responsibility in connection therewith, nor can it be assumed that all acceptable safety measures are contained herein, or that additional measures may not be required under particular or exceptional conditions or circumstances.