

Material Safety Data Sheet

“MSDSRH-5 rev 3”

Prepared on: June 2, 2003
Revised on: Dec 15, 2021

1. Product and Company identification

Product : Disposable Heated Blanket
Brand name : Ready-Heat™
Company : Company name: TECHTRADE LLC
Address: 6900 Tavistock Lakes Blvd. Ste. 400,
Orlando, FL 32827
Div. in charge: Medical Group
Phone: 201-706-8130
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2. Component/Information on ingredients

Single or mixture component : Mixture component (Inside Seal Pockets)
Common name : Disposable warmer

	Ingredients	CAS No.
Mixture compo	Iron powder	: 7439-89-6
	Water	: ---
	Wood Powder	: 7440-44-0
	Activated carbon	: 7440-44-0
	Sodium chloride	: 7647-14-5
Inner bag	: Polypropylene span bond, Polypropylene/Polyethylene film	
	Ethylene polymer	: 26221-73-8
	Propylene polymer	: 9003-07-0
Outer bag	: Poly vinylidene chloride coat Polypropylene film (Poly vinylidene chloride copolymer/Polypropylene film)	
	Poly vinylidene chloride cop	: 32335-23-2
	Polypropylene film	: 9003-07-0
	Polyethylene film	: 9002-88-4

3. Hazard information

Most important hazard
Adverse human health effects : Prolonged contact with the skin at the same site may cause a cryogenic burn.
Environmental effects : Currently no known environmental effects
Classification : Not applicable to classification standards

4. First aid measures

Mixture components in a bag:

Eye contact : Never rub eyes. Flush eyes with plenty of clean water. Seek medical attention if you feel unwell.
Skin contact : Wash skin with plenty of soap and water or warm water.
If swallowed : Rinse mouth. Seek medical attention if you feel ill.

Inner/outer bags: : Avoid contact with eyes. In case of contact flush eyes with water. Get medical attention if you feel ill.

Eye contact : If irritated, wash skin with plenty of soap and warm water.
Skin contact : In molten material contacts the skin, flush the affected material with cool water. Never peel off molten material and seek medical attention.

Inhalation : No evaporation occurs under normal conditions. If exposed to gas which is produced from molten resin remove to fresh air.
Exposure to gas, from molten resin, may cause eye inflammation with tear production and irritation of nose and throat.
Seek medical attention, if you feel ill.

If swallowed : Spit it out immediately and rinse mouth thoroughly. If ingested, seek med

5. Fire Fighting Measures

Extinguishing Media: : Water, foam, powder, CO2
Specific hazard at fire: : Extinguish fire promptly and avoid inhalation of gas produced.

Specific extinguishing procedures : Evacuate and extinguish fire promptly from windward.

Protection of fire fighters : Fire fighters must wear protective gear including self-contained breathing apparatus.

6. Accidental Release Measures

Ingredients:

Personal precautions : Avoid direct contact with skin.
Environmental precautions : Not applicable
Methods for cleaning-up : Sweep and scoop all spilled material. Place them into a water-filled container.

7. Handling and Storage

Product (packaged in an outer bag)

Handling/precautions : Do not use this product near flames.
Never remove the powder mixture from the inner bag.
Storage/appropriate conditi : Keep product in a cool place away from exposure to sunlight.
Do not store product in below freezing temperature environments. Do not damage the outer bag.

8. Exposure controls/Personal protection

Exposure limit : Not determined
Protections : Respiratory protection Put on an respirator.
Hand protection: Put on protection gloves.
Eye protection: Put on protective goggles.

9. Physical and Chemical properties

Ingredients

Physical state

Form : Solid powder
Color : Black
Odor : Odorless
Flash point : No ignition at 140°C (284°F)
Auto-ignition : Not applicable to Auto-ignition substance stated in UN recommendations
Self-heating : Not applicable to Auto-ignition substance stated in UN recommendations
Water solubility : Insoluble, except for sodium chloride

Inner bag

Appearance : White or colored sheet
Melting point : Polyethylene 115°C or higher

Specific gravity	: Polypropylene 125°C or higher : Polyethylene 0.91 to 0.94 : Polypropylene 0.89
Water solubility	: Insoluble
Outer bag	
Appearance	: Transparent or colored sheet
Melting point	: 160 to 165°C
Specific gravity	: 1.00 to 1.20
Water solubility	: Insoluble

10. Stability and Reactivity

Mixture components in a bag

Stability	: Stable under ambient conditions.
Reactivity	: Capable of spontaneous heating when materials react with oxygen
Conditions to avoid	: Avoid use in direct high oxygen concentration areas such as oxygen tent or hyperbaric chamber.
Hazardous decomposition products	: None

Inner bag

Flash point	: Polyethylene – 450°C or higher : Polypropylene – 400°C or higher
Water reactivity	: None
Oxidization	: None
Self-reactivity/Exclusive	: None
Stability/Reactivity	: Stable and non-reactive under ambient storage and handling conditions.

Outer bag

Inflammation point	: 340 to 400°C
Flash point	: 400 to 500°C
Water reactivity	: None
Oxidization	: None
Self-reactivity/Exclusive	: None
Stability/Reactivity	: Stable and non-reactive under ambient storage and handling. conditions.

11. Toxicological information

Mixture component in a bag

Acute toxicity	: No known oral/dermal toxicity
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Inner bag

Skin corrosion	: None
Irritation	: Physical irritation to eyes and skin
Sensitization	: None
Acute toxicity	: None known about oral toxicity
Carcinogenicity	: Polyethylene/Polypropylene as a Group 3 by IARC category (Carcinogenicity to human cannot be classified)

Outer bag

Irritation	: Vapor and gas produced during heat melting cause irritation to eyes and respiratory tract.
Sensitization	: None

12. Environmental effects

Mixture components in a bag

Mobility	: None known
Persistence/degradability	: None known
Bioaccumulative potentia	: None known

Inner/Outer bags

Degradability : Non-degradable for an extended period.

13. Disposal considerations

: Method of disposal should be in accordance with current local authority regulations.

Incineration in accordance with "Air Pollution Control Law".

Landfill should be in accordance with "Waste Disposal and Public Disposal Law"

14. Precautions of Transport

UN classification

: Not applicable to Auto ignition substance (hazardous substance) stated in the UN recommendations

Specific precautionary transport measures

: Avoid direct sunlight and handle with care.
Avoid damage to outer package.

15. Applicable law

Mixture of components in bag

Law for Safety of Vessels

: Not applicable to Section 3-7 "Flammable substance, Auto-ignition substance, or Self-heating substance" stated in "Regulations for the Carriage and Storage of Dangerous Goods in Ship"

Civil Aeronautics Law

: Not applicable to Section 2 "Flammable substance, Auto ignition substance, or Self-ignition substance" stated in "Announcement to define Transport Standard of Dangerous Goods including Explosive

Hazardous Substances

: Consistent with Section 1 "Criteria for landfill" stated in Cabinet Order (1973 Cabinet Order No.5) that stipulates the criteria for industrial waste including metals.

Inner/Outer bags

Industrial waste and wasted plastics stated in "Waste Disposal and Public Cleaning Law"

16. Other information

All information appearing herein is based upon data and information currently obtained and may be amended with new knowledge and examinations.

This MSDS provides information only and does not constitute a guarantee.