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CNAS IB0071



NO.2622010732

SAFETY DATA SHEET

Product Name: Self-heating material (used to heat pack)

Effective Date: 2022-03-09

Compiler: Chen Yushuang

Checker: Liu Linlin

Approver: Zhang Xiaojin



Shanghai Institute of Chemical Industry Testing Co., Ltd.



Junten Keep-Warm Products(Kunshan) Co., Ltd.

SAFETY DATA SHEET

Self-heating material (used to heat pack)

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: Self-heating material (used to heat pack)
Company: Junten Keep-Warm Products(Kunshan) Co., Ltd.
Address: No. 66, Yuanfeng Road, Shipai, Bacheng Town, Kunshan City, Jiangsu Province, 215312, P. R. China
Email: info@juntenwarmer.com
Fax: 86-512-57687550
Emergency Phone: 86-512-57687167
Recommend use of the chemical and restrictions on use: Keep warm.
SDS Number: 2622010732
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SECTION2 HAZARDS IDENTIFICATION

GHS Classification:

Physical Hazards:

Not Classified

Health Hazards:

Classification not possible

Environmental Hazards:

Classification not possible

This product contains 4% of ingredients with no data or information for classification, and may have potentially unknown hazards to human health and the environment.

The hazards not mentioned are not applicable or no data available.

Label Elements:

Pictogram:

Unknown

Signal Word:

Unknown

Hazard Statements:

Unknown

Prevention Precautionary Statements:

Unknown

Response Precautionary Statements:

Unknown

Storage Precautionary Statements:

Unknown

Disposal Precautionary Statements:

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Other Hazards:

No data available.

SECTION3 INFORMATION ON INGREDIENTS

Product name: Self-heating material (used to heat pack)

Ingredient	Concentration	CAS No.	EC No.
Mixtures:			
Iron powder	70%	7439-89-6	231-096-4
Activated carbon	15%	7440-44-0	231-153-3
Water	10%	7732-18-5	231-791-2
Vermiculite	4%	1318-00-9	/
Sodium chloride	1%	7647-14-5	231-598-3

SECTION4 FIRST-AID MEASURES

Skin Exposure:

In case of skin contact, flush with copious amounts of water. If irritation persists, Call a physician.

Eye Exposure:

In case of contacting with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, Call a physician.

Inhalation Exposure:

If inhaled, remove to fresh air immediately. If the person feels unwell, Call a physician.

Oral Exposure:

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Most Important Symptoms/Effects, Acute and Delayed:

No data available.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary:

No data available.

SECTION5 FIRE FIGHTING MEASURES**Suitable Extinguishing Media:**

Suitable: Dry chemical, Water spray, Carbon dioxide or appropriate foam.

Specific Hazards Arising from the Chemical:

Take care as it may decompose upon combustion or in high temperatures to generate Carbon oxides, iron oxides, sodium oxides, silicon oxides, magnesium oxides, aluminum oxides, hydrogen chloride gas.

Special Protective Action for Fire-fighters:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

SECTION6 ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment and Emergency Procedures:**

Use personal protective equipment. Remove all sources of ignition. Avoid breathing dust. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved personnel should be controlled around the leakage area by roping off.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Avoid entering drains.

Methods and Materials for Containment and Cleaning up:

Scoop up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

SECTION7 HANDLING AND STORAGE**Precautions for Safe Handling:**

Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and compatible protective gloves. Avoid inhalation. Avoid contacting with eyes, skin and clothing. Prevent generation of dust. Keep away from ignition sources, heat and flame. No smoking at working site. Handling is performed in a well ventilated place. Wash hands and face thoroughly after handling. Incompatibilities: Strong acids. Load and unload gently when handling. Prevent the package from breaking and getting damp so as to cause losses. Workplace should be equipped with appropriate varieties and quantities of fire-fighting equipment and leakage emergency treatment equipment.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from ignition sources, heat and flame. Incompatibilities: Strong acids. Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

SECTION8 EXPOSURE CONTROL/PPE**Control Parameters:**

GBZ 2.1-2019 Occupational Exposure Limits for Hazardous Agents in the Workplace - Part 1: Chemical Hazardous Agents:

Not set up.

ACGIH:

Not set up.

Appropriate Engineering Controls:

Mechanical exhaust required. Safety shower and eye bath.

Individual Protection Measures:

Eye/Face Protection:

Wear chemical safety glasses.

Skin Protection:

Hand Protection: Wear compatible protective gloves.

Body Protection: Wear appropriate protective clothing.

Respiratory Protection:

Wear government approved respirator.

Thermal Hazards:

No data available.

Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance: Black powder

Odor: Weak odor

pH Value: Not applicable

Solubility: Insoluble in water

Melting Point/Freezing

>350°C

Point:

Boiling Point, Not applicable

Initial Boiling

Point and Boiling

Range:

Flash Point Not applicable

(Closed Cup):

Density/Relative No data available

Density:

Kinematic Not applicable

Viscosity:

Lower/Upper No data available

Explosion

Limit/Flammability Limit:

Vapour Pressure: No data available

Relative Vapor No data available

Density:

Partition No data available

Coefficient

N-Octanol/Water (

Log Value):

Autoignition No data available

Temperature:

Decomposition Temperature: No data available

Particle Characteristics: No data available

Flammability (Solid, Gas):

The substance is not classified in Division 4.1 Flammable Solids.

Self-heating test:

The test sample has been tested according to < Recommendations on the Transport of Dangerous Goods Manual of Tests and Criteria> Rev. 7 33.4.6 Test N. 4 Test methods for self-heating substances (UNM-33.4.6). In the test using a 100 mm sample cube at 140 °C, the temperature of sample did not exceed 60°C.

SECTION10 STABILITY AND REACTIVITY

Reactivity:

No data available.

Chemical Stability:

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions:

No data available.

Conditions to Avoid:

No data available.

Incompatible Materials:

Strong acids.

Hazardous Decomposition Products:

Carbon oxides, iron oxides, sodium oxides, silicon oxides, magnesium oxides, aluminum oxides, hydrogen chloride gas.

SECTION11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Sodium chloride: Rat Oral LD₅₀: 3000 mg/kg; Rat Inhalation LC₅₀: >42000 mg/m³/1H

Skin Corrosion/Irritation:

No data available.

Serious Eye Damage/Irritation:

No data available.

Respiratory Sensitization:

No data available.

Skin Sensitization:

No data available.

Germ Cell Mutagenicity:

No data available.

Carcinogenicity:

No data available.

Reproductive Toxicity:

No data available.

Specific Target Organ Toxicity -Single Exposure:

No data available.

Specific Target Organ Toxicity -Repeated Exposure:

No data available.

Aspiration Hazard:

No data available.

SECTION12 ECOLOGICAL INFORMATION

Toxicity:

No data available.

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

SECTION13 DISPOSAL CONSIDERATION

Disposal Methods:

Recycle as far as possible. If unable to recycle, it is recommended to use incineration method for disposal under supervision. This product should not be disposed of by discharge into sewers. Return empty containers to the manufacturer or dispose of them in accordance with national and local regulations. Follow the relevant provisions of national and local regulations before disposal. It is recommended to be disposed of by a qualified chemical waste treatment department.

SECTION14 TRANSPORT INFORMATION

RID/ADR(2021 Edition): The product is not subject to RID/ADR.

IATA DGR(63rd Edition): The product is not subject to IATA DGR.

IMO IMDG CODE(2020 Edition): The product is not subject to IMO IMDG Code.

Environmental Hazards: Unknown.

Special Precautions for User: No data available.

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

Not applicable.
to Annex II of
MARPOL 73/78 and
the IBC Code:

SECTION15 REGULATORY INFORMATION

Montreal Protocol:

Not listed.

Stockholm Convention:

Not listed.

Rotterdam Convention:

Not listed.

EINECS/ELINCS:

Iron powder, Activated carbon, Water, Sodium chloride in the product are listed.

TSCA:

Iron powder, Activated carbon, Water, Sodium chloride in the product are listed.

IECSC:

Iron powder, Activated carbon, Water, Vermiculite, Sodium chloride in the product are listed.

SECTION16 OTHER INFORMATION

Preparation Date:

2022-03-09

Preparation Department:

Shanghai Research Institute of Chemical Industry Testing Co., Ltd.

Tel (Fax) : +86-21-52815377/31765555

Revision:

0

Reference Standard:

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS), 9th revised edition

Abbreviations and Acronyms:

CAS: Chemical Abstracts Service EC: European Commission ACGIH: American Conference of Governmental Industrial Hygienists LD₅₀: Lethal dose, 50% LC₅₀: Median lethal dose ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulations concerning the International Carriage of Dangerous Goods by Rail IMO IMDG CODE: International Maritime Organization International Maritime Dangerous Goods Code IATA DGR: International Air Transport Association Dangerous Goods Regulations MARPOL: International Convention for the Prevention of Pollution from Ships IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances TSCA: Toxic Substances Control Act IECSC: Inventory of Existing Chemical Substances in China

Other Information:

This SDS is compiled based on the information such as ingredients provided by the applicant and our current knowledge. This SDS shall be used only as a guide. The users of this SDS must make independent judgments on the correctness and completeness and then decide its suitability according to the actual situation. The users should take the relevant legal responsibilities for the consequences of use.