

Centre Testing International Group

SDS

Report Number :SD220002206010101

Applicant :Koolcare Technology Co., Ltd

Address :No.6-10, A5, Shandong International Tech

Park, South Waihuan Road, Linyi, 276017

Shandong, China

Sample Name : Cold/hot pack

Compiled by :

Inspected by :

Issue date : Feb.24, 2020



Safety Data Sheet

Cold/hot pack

Version: V1.0.0.1

Report No.: SD220002206010101 Creation Date: 2020/02/24 Revision Date: 2020/02/24

*Prepared according to EU regulation No. 2015/830

1 Identification of the substance/mixture and of the company/undertaking

| Product identifier

Product Name	Cold/hot pack	0	(0)	
Common Name/Trade Name	Cold/hot pack	6		6
CAS No.	Not applicable			
EC No.	Not applicable			
Molecular Formula	Not applicable	(30)	(37)	(67)
REACH Registration Number	-			

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Cold and hot physical therapy.	
Uses advised against	None.	

Details of the supplier of the Safety Data Sheet

Name of the company	Koolcare Technology Co., Ltd	
Address of the company	No.6-10, A5, Shandong International Tech Park, South Waihuan Road, Linyi, 276017 Shandong, China	(6)
Post code		
Telephone number	+86-21 3355 3167	
Fax number	— (25) (25)	
E-mail address	webmaster@koolcare.com	

Emergency phone number

Emergency phone number	+86-21 3355 3167			

2 Hazards identification

CLP classification according to Regulation (EC) No. 1272/2008

According to Regulation (EC) No 1272/2008 and its amendments. Not classified as a dangerous substance.

Label elements

Hazard pictograms	Not applicable	500.00		0.40
Signal word	Not applicable			
1002301		1/2/2	185,74	130.70

Hazard statements

Hazard statements | Not applicable

| Precautionary statements

◆ Prevention

Prevention | Not applicable

◆ Response

Response | Not applicable

Storage

Storage Not applicable

◆ Disposal

Disposal Not applicable

Other hazards

Not applicable

3 Component

Component	Cas No.	EC No.	Index No.	Hazard classification according to CLP	Concentrati on (weight percent, %)
Glycerol	56-81-5	200-289-5	150	Not Classified	30
Super absorbent polymer	9033-79-8	682-676-2	(3	Not Classified	4
5-Chloro-2-methyl-2H -isothiazol-3-one (Note)	26172-55-4	247-500-7	(3)	Acute Toxicity — Oral, Category 3, H301; Acute Toxicity — Dermal, Category 3, H311; Skin Corrosion/Irritation, Category 1B, H314; Sensitization — Skin, Category 1, H317; Serious Eye Damage/Irritation, Category 1, H318; Specific Target Organ Toxicity (Single Exposure), Category 3, H335; Hazardous To The Aquatic Environment — Short-Term (Acute) Hazard, Category 1, H400	0.01
Water	7732-18-5	231-791-2	1/2	Not Classified	65.99

Note: Considering the percentage is under safe limitation, it is safe in the product.

4 First aid measures

Description of first aid measures

General advice

Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.



Cold/hot pack

т .	No harm in general uncomfortable.	situation.	Wash	off with	water	and o	consult	а∣	physician	if	feel
1	Call a physician imme	ediately.									
	Move victim into fresh	air. If bre	eathing i	s difficu	It. aive	oxvae	en and o	cor	sult a phy	/si	cian

Version: V1.0.0.1

Revision Date: 2020/02/24

Inhalation

Ingestion

Skin contact

Move victim into fresh air. If breathing is difficult, give oxygen and consult a physiciar immediately.

Protecting of first-aiders

Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

1 Please see section 11.

Indication of any immediate medical attention and special treatment needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

Firefighting measures

Extinguishing media

Suitable extinguishing
media
Unsuitable extinguishing
media

Use extinguishing agent suitable for type of surrounding fire.

No special notes.

Specific hazards arising from the substance or mixture

- 1 Not considered a significant fire risk, however containers may burn.
- 2 May expansion or decompose explosively when heated or involved in fire.

Advice for firefighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing mist or dust.

Environmental precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

- 1 Use clean, non-sparking tools to collect absorbed material.
- Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

7 Handling and storage

Version: V1.0.0.1 Revision Date: 2020/02/24

Precautions for handling

- ◆ Protective measures
- 1 Handling is performed in a well ventilated place.
- 2 Avoid contact with eyes.
- Measures to prevent fire
- 1 Keep away from heat/sparks/open flames/ hot surfaces.
- Measures to prevent aerosol and dust generation
- 1 Avoid formation of dust and aerosols.
- 2 Provide appropriate exhaust ventilation at places where dust is formed.
- ◆ Advice on general occupational hygiene
- 1 Wash hands and face after using of the substances.
- 2 Replace the contaminated clothing immediately.

Conditions for safe storage, including any incompatibilities

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

Specific end uses

1 In addition to use mentioned in the first parts, unforeseen other specific end uses.

8 Exposure controls/personal protection

| Control parameters

◆ Occupational Exposure limit values

Component	Country/Posion	Limit value -	Eight hours	Limit value - Short term		
	Country/Region	ppm	mg/m³	ppm	mg/m³	
	USA - OSHA	-	15	-	-	
	South Korea	- (A)	10	(A)-	- (3)	
Glycerol	Ireland	- 6	10	<u> </u>	(0)	
56-81-5	Germany (DFG)	-	50	-	100	
	Belgium	- ·	10	- /3		
	Australia	(F) -	10	- 6) -	

◆ Biological limit values

Biological limit values | No relevant regulations

Monitoring methods



- EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air(Series standard).

◆ Derived No effect level(DNEL)

	Route of	DNEL for Workers					
Component	exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)		
	Inhalation	No data available	No data available	56 mg/m ³	No data available		
Glycerol 56-81-5	Oral	No data available	No data available	No data available	No data available		
00 01 0	Dermal	No data available	No data available	No data available	No data available		
Super absorbent	Inhalation	No data available	No data available	No data available	No data available		
polymer	Oral	No data available	No data available	No data available	No data available		
9033-79-8	Dermal	No data available	No data available	No data available	No data available		
5-Chloro-2-methyl-	Inhalation	No data available	No data available	No data available	No data available		
2H-isothiazol-3-one	Oral	No data available	No data available	No data available	No data available		
26172-55-4	Dermal	No data available	No data available	No data available	No data available		
	Inhalation	No data available	No data available	No data available	No data available		
Water 7732-18-5	Oral	No data available	No data available	No data available	No data available		
7702 10 0	Dermal	No data available	No data available	No data available	No data available		

◆ Predicted No Effect Concentration (PNEC)

Predicted	No	Effect	Concentration
			(DNEC)

No information available

| Engineering controls

1	Ensure adequate ventilation, especially in confined areas.	
2	Ensure that eyewash stations and safety showers are close to the workstation location.	1
3	Set up emergency exit and necessary risk-elimination area.	
4	Handle in accordance with good industrial hygiene and safety practice.	

| Personal protection equipment

General requirement	No special requirements, please see the description below.			
Eye protection	In general situation, eye protection is not needed. In the production proce when contacting with dust, tightly fitting safety goggles (approved by 166(EU) or NIOSH (US).			
Hand protection	In general situation, hand protection is not needed.			
Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.			
Skin and body protection	In general situation, skin and body protection are not needed.			

9 Physical and chemical properties

| Physical and chemical properties



Appearance	Clear gel beads		
Odor	Weak odour	5- 52	
Odor threshold	No information available		9
рН	No information available		7
Melting point/freezing point(℃)	No information available		
Initial boiling point and boiling range(℃)	No information available	(E)	(2)
Flash point(Closed cup,℃)	Not applicable	(0,	(0,
Evaporation rate	Not applicable		
Flammability	Not combustible		
Upper/lower explosive limits[%(v/v)]	Upper limit: Not explosive; Lower limit:	Not explosive	(8)
Vapor pressure	Not applicable		
Vapor density(Air=1)	Not applicable		
Relative density(Water=1)	No information available	73	(3)
Solubility(mg/L)	No information available	(C.L.)	(8,6)
n-octanol/water partition coefficient	No information available		
Auto-ignition temperature(℃)	No information available		
Decomposition temperature(°C)	No information available	(6)	3)
Viscosity(mm²/s)	Not applicable		
Explosive properties	Not explosive		
Oxidizing properties	Not oxidizing	130	13
[2787]		(200)	(20)

10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	In contact with oxidants causes severe reactions, and may cause a fire or explosion. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Oxidants, alkali metals, alkaline earth metals and aluminum. Hhalogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information

| Acute toxicity

Component Cas No.	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
-------------------	-------------------------	---------------------------	----------------------------------



Glycerol	56-81-5	12600mg/kg(Rat)	>10000mg/kg(Rabbit)	No information
Ciyeere.	30-01-3	12000mg/kg(rtat)	- 10000111g/kg(rkabbit)	available

| Carcinogenicity

ID	Cas No.	Component	IARC	NTP
1	56-81-5	Glycerol	Not Listed	Not Listed
2	9033-79-8	Super absorbent polymer	Not Listed	Not Listed
3	26172-55-4	5-Chloro-2-methyl-2H-isothiazol-3-one	Not Listed	Not Listed
4	7732-18-5	Water	Not Listed	Not Listed

Others

Cold/hot pack		
Skin corrosion/irritation	Based on available data, the classification criteria are not met	
Serious eye damage/irritation	Based on available data, the classification criteria are not met	
Skin sensitization	Based on available data, the classification criteria are not met	
Respiratory sensitization	Based on available data, the classification criteria are not met	
Reproductive toxicity	Based on available data, the classification criteria are not met	
STOT-single exposure	Based on available data, the classification criteria are not met	
STOT-repeated exposure	Based on available data, the classification criteria are not met	
Aspiration hazard	Based on available data, the classification criteria are not met	(0,)
Germ cell mutagenicity	Based on available data, the classification criteria are not met	
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met	/15

12 Ecological information

Acute aquatic toxicity

Component	Cas No.	Fish	Crustaceans	Algae
Glycerol	56-81-5	LC ₅₀ : 68100mg/L	No information	No information
Ciyocioi		(96h)(Fish)	available	available
5-Chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	LC ₅₀ : 0.36mg/L	EC ₅₀ : 1.07mg/L	ErC ₅₀ : 0.06mg/L
3-Officio-2-metry-211-isotifiazor-3-offe	26172-55-4	(96h)(Fish)	(48h)(Crustaceans)	(96h)(Algae)

| Chronic aquatic toxicity

Chronic aquatic toxicity No information available

| Persistence and degradability

Component	Cas No.	Persistence (water/soil)	Persistence (air)
5-Chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	High	High
Water	7732-18-5	Low	Low

Bioaccumulative potential



Cold/hot pack

Version: V1.0.0.1 Revision Date: 2020/02/24

Component	Cas No.	Bioaccumulative potential	comments
5-Chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Low	Log K _{OW} =0.0444
Water	7732-18-5	Low	Log K _{ow} =-1.38

Mobility in soil

Component	Cas No.	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
5-Chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Low	45.15
Water	7732-18-5	Low	14.3

Results of PBT and vPvB assessment

Component	Cas No.	Results of PBT and vPvB assessment (according to (EC) No 2015/830)
Glycerol	56-81-5	not PBT/vPvB
Super absorbent polymer	9033-79-8	not PBT/vPvB
5-Chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	not PBT/vPvB
Water	7732-18-5	not PBT/vPvB

13 Disposal considerations

Disposal considerations

Waste chemicals

recommendations

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

Contaminated packaging

Disposal

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

Refer to section 13.1and 13.2.

14 Transport information

Label and Mark

Transporting Label Not applicable

IMDG-CODE

IMDG-CODE NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

ICAO/IATA-DGR

ICAO/IATA-DGR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

I UN-ADR

UN-ADR | NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15 Regulatory information

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS	
-----------	--------	------	-----	-------	-------	-------	------	------	------	--



Cold/hot pack

Glycerol	V	√	√	√	√	√	√	√	√
Super absorbent polymer	×	√	√	√	√	√	×	√	√
5-Chloro-2-methyl-2H-isothiazol -3-one	√	√	√	√	√	√	√	√	√
Water	√	1	√	1	√	1	1	√	√

Version: V1.0.0.1

Revision Date: 2020/02/24

【EINECS】 European Inventory of Existing Commercial Chemical Substances

【TSCA】 United States Toxic Substances Control Act Inventory

【DSL】 Canadian Domestic Substances List

【IECSC】 China Inventory of Existing Chemical Substances

[NZIoC] New Zealand Inventory of Chemicals

[PICCS] Philippines Inventory of Chemicals and Chemical Substances

[KECI] Existing and Evaluated Chemical Substances

【AICS】 Australia Inventory of Chemical Substances

【ENCS】 Existing And New Chemical Substances

| European chemical inventory

Component	A	В	C	D	E	F	G
Glycerol	×	×	×	1	V	×	×
Super absorbent polymer	×	×	×	×	×	×	×
5-Chloro-2-methyl-2H-isothiazol-3-one	×	×	×	1	×	×	×
Water	×	×	×	√	×	×	×

- [A] Candidate list of Substances of Very High Concern for authorization under EU REACh regulation
- [B] Substances requiring authorisation under EU REACh regulation
- [C] Substances restricted under EU REACh
- **[D]** Pre-registered substances under EU REACh
- [E] Registered substances under EU REACh
- [F] Substance Evaluation CoRAP under EU REACh
- 【G】 List of priority substances under EU water policy (Directive 2455/2001/EC)

Note

16 Others

Information on revision

Creation Date	2020/02/24	
Revision Date	2020/02/24	
Reason for revision	- (35)	

Reference

[1]IPCS:The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.

[2]IARC, website: http://www.iarc.fr/.

[3]OECD: The Global Portal to Information on Chemical Substances, website:

[&]quot; $\sqrt{}$ " Indicates that the substance included in the regulations

[&]quot;x" That no data or included in the regulations



http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en.

[4]CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.

[5]NLM:ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.

[6]EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.

[7]U.S. Department of Transportation:ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.

[8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS –Chemical Abstracts Service

PC-STEL- Short term exposure limit

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC₅₀ - Lethal Concentration 50%

NOEC -No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

BCF - Bioconcentration factor (BCF)

IMDG-International Maritime Dangerous Goods

UN-The United Nations

NFPA-National Fire Protection Association

CMR - Carcinogens, mutagens or substances toxic to reproduction

PC-TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC - Predicted No Effect Concentration

LD₅₀ - Lethal Dose 50%

EC₅₀ - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

ICAO/IATA-International Civil Aviation Organization/International Air

Transportation Association

ACGIH-American Conference of Governmental Industrial Hygienists

OECD-Organization for Economic Co-operation and Development

| Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for thisproduct. The information of section 3 and section 9 is provided by: Koolcare Technology Co., Ltd.Other information is from authoritative database and expert assessment(200XF0).

Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACh Regulation The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

End of File

- 1. This file is considered invalidated without the Special Seal for Inspection of CTI.
- 2. This file shall not be altered, increased or deleted.
- 3. Without written approval of CTI, this file shall not be copied partly or published as advertisement.
- 4. The file and the data must not be used in legal affairs, according to the agreement with CTI and the Applicant.

