

SDS Service Summary

No.: SHAHL24013983901

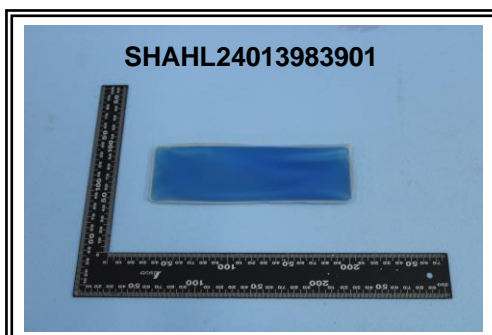
Date: 09 Jul 2024

Page 1 of 1

SGS Job No. : SHHL2406034849SD
 Applicant : Ergodyne
 Product Name : 6210 phase change
 Composition/Ingredient of product (as per applicant submission) : See *section 3 Composition/information on ingredients* on the SDS
 Job Receiving Date : 26 Jun 2024
 Last Information Date : 27 Jun 2024
 SDS Preparation Period : 26 Jun 2024-01 Jul 2024

Service Requested : Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and European Commission Regulation (EC) No 1272/2008.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2020/878, and is provided per attached.



SGS authenticate the photo on original SDS Service Summary only

Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill European Commission Regulation (EC) No 1907/2006 and communicate the hazard information of chemicals through the supply chain to ensure safe use. It is not a test report or a certificate ensuring the safety of a product.

SGS has consolidated product information based on documents provided by Applicant (i.e. product name, the supplier details, product composition, available physical data, etc) without independent verification from SGS. The information is provided without any warranty, express or implied, regarding its correctness.

Cathy Cai

Cathy Cai
 Project Engineer

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 01.07.2024

Version number 1

Revision: 28.06.2024

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

- **1.1 Product identifier**
- **Trade name:** 6210 phase change
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Body Cooling
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**
 Ergodyne
 1021 Bandana Boulevard East, Suite 220, Saint Paul, MN, United States, 55108
 Tel: 18005355053 , 13523233500
 E-mail: Deborah.Miller@ergodyne.com
- **Only Representative / other EU contact point:** Not available
- **1.4 Emergency telephone number:**
 IRELAND
 National Poisons Information Centre
 Tel: +353 (01) 809 2566 (For healthcare professionals)
 +353 (01) 809 2166 (For public; 8am - 10pm)
- **1.5 Reference Number:** SHHL2406034849SD; SHAHL24013983901

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

- Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- **Information concerning particular hazards for human and environment:**
 The product has to be labelled due to the calculation procedure of Regulation (EC) No. 1272/2008.
 - **Classification system:**
 The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
 The product is classified and labelled according to the CLP Regulation.
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**
 hexadecane
- **Hazard statements**
 H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**
 P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read carefully and follow all instructions.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P331 Do NOT induce vomiting.
 P405 Store locked up.

(Contd. on page 2)

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 01.07.2024

Version number 1

Revision: 28.06.2024

Trade name: 6210 phase change

(Contd. of page 1)

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

· **Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable

· **vPvB:** Not applicable

· **Determination of endocrine-disrupting properties** Not applicable

SECTION 3: Composition/information on ingredients


· **3.2 Mixtures**

· **Description:**

Mixture of substances listed below with nonhazardous additions.

For the wording of the listed hazard statements refer to section 16.

· **Composition:**

CAS: 544-76-3	hexadecane	99.99%
EINECS: 208-878-9	 Asp. Tox. 1, H304, EUH066	
CAS: 3536-49-0	Bis[hydrogen [4-[4-(diethylamino)-5'-hydroxy-2',4'-disulphonatobenzhydrylidene]cyclohexa-2,5-dien-1-ylidene]diethylammonium], calcium salt	0.01%
EINECS: 222-573-8		

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth with water.

Never give anything by mouth to an unconscious person.

Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Mouth respiratory protective device.

(Contd. on page 3)

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 01.07.2024

Version number 1

Revision: 28.06.2024

Trade name: 6210 phase change

(Contd. of page 2)

Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes.

Avoid contact with skin.

- **6.2 Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

- **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Keep receptacles tightly sealed.

Prevent formation of aerosols.

Avoid contact with skin and eyes.

For the general occupational hygienic measures refer to section 8.

- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.

- **7.2 Conditions for safe storage, including any incompatibilities:**

- **Requirements to be met by storerooms and receptacles:** Store in a cool location.

- **Information about storage in one common storage facility:** Store away from foodstuffs.

- **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **DNELs:** Data not available

- **PNECs:** Data not available

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure:**

- **Appropriate engineering controls:**

Keep away from foodstuffs, beverages and feed.

(Contd. on page 4)

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 01.07.2024

Version number 1

Revision: 28.06.2024

Trade name: 6210 phase change

(Contd. of page 3)

Wash hands before breaks and at the end of work.

See Section 7 for information about design of technical facilities.

- **Individual protection measures, such as personal protective equipment**
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eyeface protection**



Tightly sealed goggles

- **Body protection:** Protective work clothing
- **Thermal hazards:** Not required for normal conditions of use.

- **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **Physical state** Liquid
- **Colour:** Blue
- **Odour:** Odourless
- **Odour threshold:** Data not available
- **Melting point/freezing point:** 18.2 °C
- **Boiling point or initial boiling point and boiling range** 287 °C
- **Flammability** Data not available
- **Lower and upper explosion limit**
- **Lower:** Data not available.
- **Upper:** Data not available.
- **Flash point:** 135 °C
- **Auto-Ignition temperature:** 202 °C
- **Decomposition temperature:** Data not available
- **pH** Data not available
- **Viscosity:**
- **Kinematic viscosity** Data not available.
- **Dynamic viscosity** Data not available.

(Contd. on page 5)

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 01.07.2024

Version number 1

Revision: 28.06.2024

Trade name: 6210 phase change

(Contd. of page 4)

- | | |
|--|--------------------------------|
| · Solubility | |
| · water: | <i>Insoluble.</i> |
| · Partition coefficient n-octanol/water (log value) | <i>Data not available</i> |
| · Vapour pressure: | <i>Data not available.</i> |
| · Density and/or relative density | |
| · Density: | <i>0.7734 g/cm³</i> |
| · Relative density | <i>Data not available.</i> |
| · Relative vapour density: | <i>Data not available.</i> |
| · Particle characteristics | <i>Not applicable</i> |

- **9.2 Other information**
- **Appearance:**
- **Form:** *Liquid*

- **Information with regard to physical hazard classes**
- | | |
|--|---|
| · Explosives | <i>Not applicable</i> |
| · Flammable gases | <i>Not applicable</i> |
| · Aerosols | <i>Not applicable</i> |
| · Oxidising gases | <i>Not applicable</i> |
| · Gases under pressure | <i>Not applicable</i> |
| · Flammable liquids | <i>Not applicable</i> |
| · Flammable solids | <i>Not applicable</i> |
| · Self-reactive substances and mixtures | <i>Not applicable</i> |
| · Pyrophoric liquids | <i>Not applicable</i> |
| · Pyrophoric solids | <i>Not applicable</i> |
| · Self-heating substances and mixtures | <i>Not applicable</i> |
| · Substances and mixtures, which emit flammable gases in contact with water | <i>Not applicable</i> |
| · Oxidising liquids | <i>Not applicable</i> |
| · Oxidising solids | <i>Not applicable</i> |
| · Organic peroxides | <i>Not applicable</i> |
| · Corrosive to metals | <i>Not applicable</i> |
| · Desensitised explosives | <i>Not applicable</i> |
| · Other safety characteristics | <i>Data not available</i> |
| · Additional information | <i>Vapor density: 7.8g/cm³</i> |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** *No decomposition if used according to specification.*
- **10.2 Chemical stability** *Stable under recommended storage conditions.*
- **10.3 Possibility of hazardous reactions** *No dangerous reactions known.*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** *Based on available data, the classification criteria are not met.*
- **LD/LC50 values relevant for classification:** *Data not available*
- **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.*
- **Respiratory or skin sensitisation:** *Based on available data, the classification criteria are not met.*

(Contd. on page 6)

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 01.07.2024

Version number 1

Revision: 28.06.2024

Trade name: 6210 phase change

(Contd. of page 5)

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** 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:** May be fatal if swallowed and enters airways.
- **11.2 Information on other hazards**

· Endocrine disrupting properties
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None of the ingredients is listed.

- **Other information** No further relevant information available.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|----------------------------------|
| <ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA | Not applicable |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR/RID/ADN, IMDG, IATA | Not applicable |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR/RID/ADN, IMDG, IATA · Class · Label | Not applicable
Not applicable |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR/RID/ADN, IMDG, IATA | Not applicable |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: | No |

(Contd. on page 7)

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 01.07.2024

Version number 1

Revision: 28.06.2024

Trade name: 6210 phase change

(Contd. of page 6)

- | | |
|---|---|
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · 14.8 Transport/Additional information: | Not dangerous according to the above specifications |
| · UN "Model Regulation": | Not applicable |

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

None of the ingredients is listed.

· Regulation (EU) No 649/2012

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone-depleting potential)

None of the ingredients is listed.

· Other regulations, limitations and prohibitive regulations

· SVHC Candidate List of REACH Regulation Annex XIV Authorisation (23/1/2024)

None of the ingredients is listed.

· REACH Regulation Annex XVII Restriction (25/9/2023)

See Section 16 for information about restriction of use.

None of the ingredients is listed.

· REACH Regulation Annex XIV Authorization List (13/11/2023)

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· Relevant hazard statements

H304 May be fatal if swallowed and enters airways.

EUH066 Repeated exposure may cause skin dryness or cracking.

(Contd. on page 8)

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 01.07.2024

Version number 1

Revision: 28.06.2024

Trade name: 6210 phase change

(Contd. of page 7)

· Classification according to Regulation (EC) No 1272/2008

Aspiration hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
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The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2020/878.

DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Asp. Tox. 1: Aspiration hazard – Category 1

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EU