

Issue Date: 27/09/2019  
Last Revision Date: 05/07/2023  
Superseded Date: 27/09/2019  
Version Number: 02

## SAFETY DATA SHEET

Product Code: HCGBB

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### SECTION 1 PRODUCT IDENTIFICATION

**Product Name:** Livingstone Hot and Cold Pack

**Other Means Of Identification** None

#### Recommended Use Of The Chemical And Restrictions On Use

**Uses advised against:**

**Cold therapy:** To control and alleviate the gore and pain caused by strain, bruise, pull and burn, also can rapidly remove the pain and discomfort induced by fever, headache, toothache, mosquito bite.

**Hot therapy:** Provides relief for sore and stiff joints, muscles aches and pain, and muscle tension and cramps.

**Restrictions on use:**

**Cold therapy:**

- (a) Anesthetic skin
- (b) Cold allergy/cold-induced urticaria
- (c) Cold-induced myocardial ischemia (or other unstable heart or lung disease)
- (d) Diabetes mellitus (when complicated by vascular disease or sensory loss)
- (e) Peripheral vascular disease
- (f) Raynaud's phenomenon
- (g) Systemic lupus erythematosus
- (h) Uncovered open wounds

**Hot therapy:**

- (a) Paralytic
- (b) Diabetic peripheral neuropathy
- (c) Nonsensitive skin
- (d) Anesthetic skin
- (e) Uncovered open wounds

### SECTION 2 HAZARD IDENTIFICATION

**GHS Regulatory Status** This chemical is not considered hazardous by the UN GHS (the 6th revised edition) .

**Signal word:** Warning.

**Hazard class:** Eye irritation Category 2A  
Skin irritation Category 2  
Acute toxicity-Oral Category 5

**Hazard pictograms:**



Exclamation Mark

**Hazard statements:**

H303 May be harmful if swallowed.  
H315 Causes skin irritation  
H319 Causes serious eye irritation.

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**Precautionary Statements - Prevention:** P264 Wash thoroughly after handling.  
 P280 Wear protective gloves/protective clothing/eye protective/face protective.

**Precautionary Statements - Response:** P304+P312 IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.

**Storage:** Not application.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations (to be specified).

**Other hazards which do not result in classification** Not application.

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	ACGIH TLV		OSHA	
		TWA	STEL	PEL	STEL
Water	7732-18-5	N/Av	N/Av	N/Av	N/Av
Glycerin	56-81-5	10mg/m <sup>3</sup>	N/Av	15mg/m <sup>3</sup>	N/Av
Sodium polyacrylate	9003-04-7	N/Av	N/Av	N/Av	N/Av
Polyethyleneglycol	25322-68-3	N/Av	N/Av	N/Av	N/Av
Sodium chloride	7647-14-5	N/Av	N/Av	N/Av	N/Av
Ropylene glycol	57-55-6	470mg/m <sup>3</sup>	N/Av	N/Av	N/Av

The exact percentage concentration of composition has been withheld as a confidential business information(CBI) in accordance with GHS.

## SECTION 4 FIRST AID MEASURES

**General Advice:** Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** If breathed in, move person into fresh air; If breathing is difficult, get medical attention.

**Skin Contact:** Immediately wash with soap and plenty of water. Seek medical attention in event of irritation.

**Eye Contact:** Flush eyes with water as a precaution. Get medical attention if irritation persists.

**Ingestion:** If swallowed, include vomiting under the guidance of professional doctors. If the injured is fully conscious: wash mouth out with water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Protection of first-aid:** Treat symptomatically. May cause sensitization of susceptible persons.

**Most important symptoms/ effect, acute and delayed** See section 11

**Note to Physicians:** Treat symptomatically.

**Specific treatments** No further relevant information available.

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### SECTION 5 FIRE FIGHTING MEASURES

- Suitable extinguishing media:** CO<sub>2</sub>, extinguishing power or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Unsuitable extinguishing media:** Not applicable.
- Specific hazards arising from the mixture** Oxides of carbon, Oxides of sulphur.
- Special protective equipment:** In case of fire, wear a full face positive pressure self contained breathing apparatus and protective suit.
- Special protective precautions:** Fight fires from a safe distance. Evacuate personnel to safe area. Water spray may be useful in cooling equipment exposed to heat and flame

### SECTION 6 ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment, and emergency procedures:** Sweep up material carefully, and then place into a suitable disposal container for disposal. Do not let product enter sewers/surface, ground water or drains.
- Environmental precautions** Prevent further leakage or spillage if safe to do so. Keeping away from drains and ground water.
- Methods and materials for containment and cleaning up** Keep in suitable, closed containers for disposal. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Dispose contaminated material as waste according to item 13.
- 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

- Handling:** Ensure good ventilation/exhaustion at the workplace. Avoiding contact with eyes, skin and clothing. Wash thoroughly after handling.
- Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- Requirements to be met by storerooms and receptacles:** Store in a cool, dry, and well-ventilated area and keep away from incompatible substances, food, drink and dust/impurities. Inspect regularly for deficiencies such as damage or storage area should be equipped with the corresponding species and quantity of fire equipment and leakage emergency equipment. Store protected from moisture. Do not store together with acids, oxides. Store away from foodstuffs. Protect from heat and direct sunlight.
- Specific end use(s):** No further relevant information available.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Exposure controls** Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.
- Appropriate engineering controls** Use adequate ventilation to keep airborne concentrations low. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

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### Personal protective equipment

<b>Eye/face protection:</b>	Safety glasses with side shields.
<b>Skin protection:</b>	Wear appropriate protective clothing, and gloves to prevent skin contact
<b>Respiratory protection:</b>	An appropriate respirator or mask should be used whenever workplace conditions warrant a respirator's use. A full face positive pressure supplied-air respirator of a self contained breathing apparatus should be used when large spilled or fire.
<b>Other Protection:</b>	Keep an eye wash fountain available. Keep a safety shower available. Wash hands at breaks and at the end of the shift. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

### SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

<b>Appearance (physical state, color, etc.):</b>	Bead
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	No information found.
<b>pH:</b>	No information found.
<b>Melting point/freezing point:</b>	No information found.
<b>Initial boiling point and boiling range:</b>	No information found.
<b>Flash point:</b>	No information found.
<b>Evaporation rate:</b>	No information found.
<b>Flammability (solid, gas):</b>	No information found.
<b>Upper/lower flammability or explosive limits:</b>	No information found.
<b>Vapor pressure:</b>	No information found.
<b>Vapor density:</b>	No information found.
<b>Relative density:</b>	No information found.
<b>Solubility(ies):</b>	No information found.
<b>Partition coefficient: n-octanol/water:</b>	No information found.
<b>Auto-ignition temperature:</b>	No information found.
<b>Decomposition temperature:</b>	No information found.
<b>Viscosity:</b>	No information found.

### SECTION 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	No information found.
<b>Chemical Stability</b>	Stable under ambient conditions.

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**Hazardous Polymerization:** . Not expected under prescribed storage and handling conditions. Decomposition may occur at extremely high temperatures

**Conditions to avoid:** Strong Oxidizers, acids

**Incompatible materials:** Reactive with oxidizing agents.

**Hazardous decomposition Products:** No dangerous decomposition products known.

**Incompatibilities with Other Materials:** No further relevant information available

### SECTION 11 TOXICOLOGICAL INFORMATION

**Toxicological data:** There is no available data for the product itself, only for the ingredients, Refer to Section 2 for individual ingredient LD50's and LC50's.

Ingredients	CAS Number	LC50	LD50	
		Inh, rat	Oral	Dermal
Water	7732-18-5	N/A	N/A	N/A
Glycerin	56-81-5	570 mg/m3 ( Rat )	12600 mg/kg ( Rat )	10 g/kg ( Rabbit )
Sodium polyacrylate	9003-04-7	≥5800mg/m3	2700mg/kg	≥2mg/kg
Polyethyleneglycol	25322-68-3	N/A	28000 mg/kg ( Rat )	N/A
Sodium chloride	7647-14-5	N/A	3000 mg/kg ( Rat )	N/A
Ropylene glycol	57-55-6	N/A	22000mg/kg ( Rat )	N/A

**Carcinogenic status:** No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

#### Other information

**Skin corrosion/irritation:** No information found.

**Serious eye damage/irritation:** No information found.

**Respiratory or skin sensitization:** No information found.

**Germ cell mutagenicity:** No information found.

**Reproductive toxicity:** No information found.

**STOT-single exposure:** No information found.

**STOT-repeated exposure:** No information found.

**Aspiration hazard:** No information found.

### SECTION 12 ECOLOGICAL INFORMATION

#### Acute/Chronic Toxicity:

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Water	Not listed	Not listed	Not listed	Not listed
Glycerin	Not listed	LC50: 51-57mL/L, 96h static(Oncorhynchus mykiss)	Not listed	EC50: >500mg/L, 24h(Daphnia magna)
Sodium polyacrylate	Not listed	Not listed	Not listed	Not listed
Polyethyleneglycol	Not listed	Not listed	Not listed	Not listed
Sodium chloride	Not listed	Not listed	Not listed	Not listed
Ropylene glycol	Not listed	Not listed	Not listed	Not listed

<b>Persistence And Degradability</b>	Not available.
<b>Bioaccumulation:</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Mobility In Soil</b>	Not available.
<b>Other Adverse Effects</b>	Not available.

## SECTION 13 DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	The generation of waste should be avoided or minimized wherever possible. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
<b>Contaminated packaging</b>	Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.
<b>Disposal recommendations</b>	Refer to section 13.1 and 13.2.

## SECTION 14 TRANSPORT INFORMATION

	TDG	ADR	IMDG	IATA
<b>UN Number</b>	Not applicable.			
<b>UN proper shipping name</b>	Not applicable.			
<b>Transport hazard class</b>	Non-hazardous for Transport.			
<b>Packing group</b>	Not applicable.			

<b>Environmental hazards(Marine pollutant):</b>	Refer to section 12.1.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not applicable.
<b>Special precautions for user:</b>	Not applicable.

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**DOT Classification:** Not a DOT controlled material (United States).  
**Identification:** Not applicable.  
**Special Provisions for Transport:** Not applicable.

## SECTION 15 REGULATORY INFORMATION

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS
Water	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Glycerin	Not listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Sodium polyacrylate	Not listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Polyethyleneglycol	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Sodium chloride	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed
Ropylene glycol	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed

[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

## SECTION 16 OTHER INFORMATION

**Abbreviations and acronyms**

UN GHS: United nations Globally Harmonized System of Classification and Labelling of Chemicals  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 CAS: Chemical Abstracts Service  
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980.  
 DOT: Department of Transportation  
 DSL: the Domestic Substances List of Canada  
 EC: European Commission  
 EPA: Environmental Protection Agency  
 HMIS: Hazardous Substances Data Bank  
 IARC: International Agency for Research on Cancer  
 Inh: Inhalation  
 IATA: International Air Transport Association  
 LC: Lethal Concentration  
 LD50: Lethal dose, 50 percent kill  
 MA: Massachusetts  
 MAC: Maximum allowable concentration  
 MSHA: Mine Safety and Health Administration  
 N/Ap: Not Applicable

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### Abbreviations and acronyms

NFPA: National Fire Protection Association  
NIOSH: US National Institute for Occupational Safety and Health  
NTP: US National Toxicology Program  
OSHA: US Occupational Safety and Health  
PA: Pennsylvania  
PEL: Permissible Exposure Limit  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act

### Reason for Revision:

To bring to date

## END OF SDS