

Material Safety Data sheet

Section 1: Product and Company Information

Product Name	Stuart Transport Medium		
Catalogue Number	i23272	Technical Phone	0098 21 66787291
			09391003565
E-mail	ibresco@gmail.com	Fax No	0098 2633523460
Company Address	Zist Kavosh Iranian, No.432, East Kokab Av,45 Metri Golshahr, Karaj, Iran.		

Section 2: Hazards Identification

Classification of the substance or mixture

CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]

Sensitization, Skin, (Category 1), H317

Label elements

Labeling according to Regulation (EC) No.1272/2008

Pictogram



Signal word

Warning

Hazard Statement(s)

H317 May cause an allergic skin reaction

Precautionary Statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

Other Hazards

None

Section 3: Composition / Information on Ingredients

Mixture

Component		Classification	Concentration*
Sodium thioglycolate			
CAS-No.	367-51-1	As Per EC Regulation 1272/2008	>=1.0 - <=10.0%
EC-No.	206-696-4	Acute Tox.oral. 3; Skin Sens. 1 H301; H317	
Calcium chloride, anhydrous			
CAS-No.	10043-52-4	As Per EC Regulation 1272/2008	>=0.1 - <=1.0%
EC-No.	233-140-8	Eye Irrit. 2A H319	
Methylene blue			
CAS-No.	7220-79-3	As Per EC Regulation 1272/2008	>=0.01 - <=0.1%
EC-No.	200-515-2	Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H302; H315; H319; H335	

* Weight %

Section 4: First Aid Measures

Description of first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with plenty of soap and water. Consult a physician.
In case of eye contact	Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

No data available.

Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Fire Fighting Measures

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

No data available.

Special hazards arising from the substance or mixture

Carbon oxides
Sodium oxides
Hydrogen chloride gas
Calcium oxide
Sulphur oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary

Further information

No data available

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

Section 7: Handling and Storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended Storage Temperature On receipt store between 10-30°C

Section 8: Exposure Controls / Personal Protection

Control parameters

Exposure controls

Personal protective equipment

Hygiene measure

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

Eye/face protection

Tightly fitting safety goggles; Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425/EEC and the standard EN ISO 374-1/2016 derived from it.

Body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and Chemical Properties

Physical state	Homogenous free flowing powder
Color	White to light Blue
Odor	No data available
Odor Threshold	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flammability (solid, gas)	No data available
Flash point	No data available
Vapor pressure	No data available
Vapor density	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	7.20 - 7.60

Viscosity	No data available
Water Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Relative density	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Other safety information	No data available

Section 10: Stability and Reactivity

Reactivity	No data available
Chemical stability	No data available
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	In the event of fire: see section 5

Section 11: Toxicological Information

Information on toxicological effects	
Mixture	
Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Aspiration hazard	No data available
Additional Information	RTECS: No data available
Components	
Sodium Thioglycolate	
Acute oral toxicity	Rat LD50: 50-200 mg/kg (As per OECD Test Guideline 423)
Acute dermal toxicity	Rat LD50: >1000-2000 mg/kg (As per OECD Test Guideline 402)
Skin irritation	Rabbit: Slight irritation (As per OECD Test Guideline 404)

Eye irritation Rabbit: Slight irritation (As per OECD Test Guideline 405)
Sensitization Local Lymph Node Assay (LLNA)
Germ cell mutagenicity Mouse: Positive (As per OECD Test Guideline 429)
Genotoxicity in vivo In vivo micronucleus test: Mouse (male & female)
Genotoxicity in vitro Oral Result: Negative method (As per OECD Test Guideline 474)
 Ames Test: *Salmonella* Typhimurium
 Result: Negative (As per OECD Test Guideline 471)
Additional information RTECS: AI7700000

Calcium chloride

Acute oral toxicity Rat LD50: 1,000 mg/kg
 (As per IUCLID)
Acute dermal toxicity Rat LD50: 2,630 mg/kg
 (As per IUCLID)
Skin irritation Rabbit
 Result: No irritation
 (As per OECD Test Guideline 404)
Eye irritation Rabbit
 Result: Eye irritation
 (As per OECD Test Guideline 405)
 Causes serious eye irritation.
Additional Information RTECS: EV9800000

Methylene blue chloride

Acute oral toxicity No data available
Acute inhalation toxicity No data available
Acute dermal toxicity No data available
Skin irritation No data available
Eye irritation No data available
Sensitization No data available
Ames test No data available
Mutagenicity (mammal cell test) No data available
Carcinogenicity No data available
Toxicity to Reproduction No data available
Teratogenicity No data available
Additional information RTECS: SO5600000

Section 12: Ecological Information

Toxicity
Mixture No data available
Components Toxicity to fish
Sodium thioglycolate Oncorhynchus mykiss (rainbow trout) LC50: > 100 mg/l; 96 h
 (As per OECD Test Guideline 203)
 Toxicity to daphnia and other aquatic invertebrates

	Daphnia magna (Water flea) EC50: 38 mg/l; 48 h (As per OECD Test Guideline 202) Toxicity to algae Desmodesmus subspicatus (green algae) EC50: > 100 mg/l; 72h (As per OECD Test Guideline 201) Toxicity to bacteria EC50 Activated sludge: 820 mg/l; 0.5 h (As per OECD Test Guideline 209)
Components Calcium chloride	Toxicity to fish Lepomis macrochirus (Bluegill sunfish) LC50: 10,650 mg/l; 96 h (As per IUCLID) Toxicity to daphnia and other aquatic invertebrates Daphnia magna (Water flea) EC50: 144 mg/l; 48 h (As per IUCLID) Toxicity to algae AlgaeIC50: 3,130 mg/l; 120 h (As per IUCLID)
Components Methylene blue	Toxicity to fish Pimephales promelas (fathead minnow) LC50: 45 mg/l; 96 h Toxicity to daphnia and other aquatic invertebrates Daphnia magna (Water flea) EC50: 2,260 mg/l; 48 h
Persistence and degradability	No data available
Bio accumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	This preparation contains no substance considered to be persistent, bioaccumulating or toxic (PBT) at levels of 0.1% or higher.
Other adverse effects	No data available

Section 13: Disposal Consideration

Waste treatment methods

Product

Offer surplus and non- recyclable solutions to a licensed company. Contact a licensed professional waste disposal service to dispose of this material

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information

UN-No	ADNR: - ADR: - IATA_C: - IATA_P: - IMDG: - RID: -
UN proper shipping name	ADNR: Not dangerous goods ADR: Not dangerous goods IATA_C: Not dangerous goods IATA_P: Not dangerous goods IMDG: Not dangerous goods RID: Not dangerous goods
Transport hazard class(es)	ADNR: -

	ADR: - IATA_C: - IATA_P: - IMDG: - RID: -
Packaging group	ADNR: - ADR: - IATA_C: - IATA_P: - IMDG: - RID: -
Environmental hazards	ADNR: No ADR: No IMDG: Marine Pollutant No IATA_C: No IATA_P: No RID: No
Special precautions for use	No data available

Section 15: Regulatory Information

Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety health and environment regulations/legislation specific for the substance or Mixture

No data available

Chemical Safety Assessment

No data available

Section 16: Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. *ibresco* shall not be held liable for any damage resulting from handling or from contact with the above product.

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