

Effective date: 27-04-2013	Hy-Labs Cat. No: <u>TT-251</u>	MSDS FORMAT MATERIAL SAFETY DATA SHEET	Replace Doc: NA
Doc. No: MSDS-TT-251			

1- Product and Company Identification	
Product Name	Rappaport Vassiliadis Soy (RVS) Broth
Reference number	TT-251
Manufacturer	Hy-Laboratories Ltd. Park Tamar, Rehovot, 76326, Israel Tel: 972-8-9366475 Fax: 972-8-9366474
2- Composition, Information on Ingredients	
Name	CAS No.
Magnesium Chloride	7791-18-6
Sodium Chloride	7647-14-5
Peptone from soymea	91079-46-8
Potassium Phosphate, Monobasic	7778-77-0
Potassium Phosphate, Dibasic	7758-11-4
3- Hazard Specifications	
Emergency overview	CAUTION! Handling care generally in keeping with safe laboratory practices is recommended
Physical state	Solid
OSHA/HCS status	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product
Routes of entry	Inhalation. Ingestion
<u>Potential acute health effects</u>	
Inhalation	Dust may cause mechanical irritation
Ingestion	Ingestion may cause gastrointestinal irritation and diarrhea
Skin	Dust may cause mechanical irritation
Eyes	Dust may cause mechanical irritation to eyes
<u>Potential chronic health effects</u>	
Carcinogenicity	No known significant effects or critical hazards
Mutagenicity	No known significant effects or critical hazards
Teratogenicity	No known significant effects or critical hazards
Developmental effects	No known significant effects or critical hazards
Fertility effects	No known significant effects or critical hazards
Medical conditions aggravated by over-exposure	Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product

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4- First Aid Measures	
After eye contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately
After skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately
After inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately
After Ingestion	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately
5- Fire Fighting Measures	
Flammability of the product	No specific fire or explosion hazard
Extinguishing media	Use an extinguishing agent suitable for the surrounding fire
Special exposure hazards	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training
Hazardous thermal decomposition products	Decomposition products may include the following materials: phosphorus oxides, halogenated compounds, metal oxide/oxides
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode
6- Accidental Release Measures	
Personal precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8)
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)
Methods for cleaning up Spill	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal

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7- Handling and Storage	
Handling	Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container
Storage	2-8° C. Store in original container, protected from direct sunlight. Keep container tightly closed and sealed until ready for use
8- Exposure Controls, Personal Protection	
Consult local authorities for acceptable exposure limits - Engineering measures	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location
<u>Personal protection</u>	
Respiratory	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of product and safe working limits of the selected respirator
Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: nitrile rubber
Eyes	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: safety glasses with side-shields
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: lab coat
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels

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9- Physical and Chemical Properties

Physical state	Liquid
Color	Dark Turquoise, clear
Odour	N/A
Solubility	Soluble in the following materials: water

10- Stability and Reactivity

Chemical stability	The product is stable
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur
Conditions to avoid	No specific data
Materials to avoid	Reactive or incompatible with the following materials: moisture
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced

11- Toxicological Information

Product/ingredient name	Test Route	Species	Result
Sodium Chloride	LD50	Rat	2600 mg/kg
	Intraperitoneal		
	LD50 Oral	Rat	3000 mg/kg
	LDLo	Rat	3.72 g/kg
	Intraperitoneal		
	LDLo	Rat - Male	3500 mg/kg
	Subcutaneous		
	TDLo Oral	Rat	1.43 mg/kg
	LC50 Inhalation	Rat	>42000 mg/m ³
Magnesium Chloride	Vapor		
	LD50 Oral	Rat	8100 mg/kg
	LD50 Oral	Rat	7333.3 mg/kg
Potassium Phosphate, Monobasic	LDLo Intravenous	Rat	176 mg/kg
	LD50 Dermal	Rabbit	>4640 mg/kg
	LDLo Oral	Rat	4640 mg/kg
Carcinogenicity	No known significant effects or critical hazards		
Mutagenicity	No known significant effects or critical hazards		
Teratogenicity	No known significant effects or critical hazards		

12- Ecological Information

Product/ingredient name	Result	Species	Exposure
Sodium Chloride	Acute EC50 402.6 mg/L	Daphnia	48 hours
	Acute EC50 402600 to 469200 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 2 g/L Fresh water	Daphnia - Water flea - Daphnia ambigua - Neonate	48 hours
	Acute LC50 1.59 g/L Fresh	Daphnia - Water flea -	48 hours

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	water	Ceriodaphnia dubia - Neonate	
	Acute LC50 1.47 to 1.57 g/L Fresh water	Daphnia - Water flea - Daphnia pulex	48 hours
	Acute LC50 1.1 to 1.4 g/L Fresh water	Daphnia - Water flea - Daphnia pulex - Neonate - <24 hours	48 hours
	Acute LC50 7200 mg/L	Fish	96 hours
	Acute LC50 7100 mg/L	Fish	96 hours
	Acute LC50 7050 mg/L	Fish	96 hours
	Acute LC50 6390 mg/L	Fish	96 hours
	Acute LC50 6390 mg/L	Fish	96 hours
	Acute LC50 2000 to 2500 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia	48 hours
	Acute LC50 1661 mg/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 1042 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - <24 hours	48 hours
	Acute LC50 >10000 ppm Fresh water	Crustaceans - Aquatic sowbug - Asellus communis	48 hours
	Acute LC50 >5600 ppm Fresh water	Crustaceans - Aquatic sowbug - Asellus communis	48 hours
	Acute LC50 1000 ppm Fresh water	Fish - Striped bass - Morone saxatilis - Larve - 1 weeks	96 hours
	Acute LC50 16500000 to 33000000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult	48 hours
	Acute LC50 5000000 ug/L Fresh water	Fish - Striped bass - Morone saxatilis - Fingerling	96 hours
	Acute LC50 1960000 to 2330000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - <24 hours	48 hours
	Acute LC50 1294600 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 5 to 9 cm - 1 to 9 g	96 hours
	Acute LC50 1000000 ug/L Fresh water	Fish - Striped bass - Morone saxatilis - Larve	96 hours
Environmental effects	No known significant effects or critical hazards		
Other adverse effects	No known significant effects or critical hazards		

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13- Disposal Information	
<p>The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with regulations. Disposal in accordance with applicable regional, national and local laws and regulations</p>	
14- Transport Information	
DOT Classification	UN number: -
Proper shipping name	CHEMICALS, N.O.S.
Classes	-
Packing group	-
Additional information	-
15- Regulatory Information	
U.S. Federal regulations	<p>United States inventory (TSCA 8b): Not Listed On the EPA TSCA Inventory. For Research and Development Use Only. SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: Potassium Phosphate, Monobasic ; Magnesium Chloride; Potassium Phosphate, Dibasic; Sodium Chloride SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Potassium Phosphate, Monobasic : Immediate (acute) health hazard; Magnesium Chloride: Immediate (acute) health hazard; Potassium Phosphate, Dibasic: Immediate (acute) health hazard; Sodium Chloride : Immediate (acute) health hazard, Delayed (chronic) health hazard Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found</p>
New Jersey Hazardous Substances	The following components are listed: Potassium Phosphate, Monobasic
WHMIS (Canada)	Not controlled under WHMIS (Canada)
Canadian lists	CEPA Toxic substances: None of the components are listed. Canadian ARET: None of the components are listed.

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	<p>Canadian NPRI: None of the components are listed.</p> <p>Alberta Designated Substances: None of the components are listed.</p> <p>Ontario Designated Substances: None of the components are listed.</p> <p>Quebec Designated Substances: None of the components are listed.</p>
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International lists	<p>Australia inventory (AICS): All components are listed or exempted.</p> <p>China inventory (IECSC): All components are listed or exempted.</p> <p>Japan inventory: Not determined.</p> <p>Korea inventory: Not determined.</p> <p>New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.</p> <p>Philippines inventory (PICCS): Not determined.</p>
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16- Other Information

The diagram is a diamond-shaped hazard label. The top vertex contains the number '0' and is labeled 'Flammability'. The right vertex contains the number '0' and is labeled 'Instability'. The left vertex contains the number '1' and is labeled 'Health'. The bottom vertex is empty and is labeled 'Special'.

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