

SAFETY DATA SHEET

Revision Date 01-April-2024 Revision Number 3

1. Identification

Product Name Puck's G Balanced Salt Solution, with calcium, with magnesium, with

phenol red

Cat No. : J67542

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Importer/Distributor

Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6, Canada

Tel: 1-800-234-7437

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

WHMIS 2015 Classification Not classified under the Hazardous Products Regulations (SOR/2015-17)

Based on available data, the classification criteria are not met

Label Elements

None required

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Water	7732-18-5	98.64
Sodium chloride	7647-14-5	0.801

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Potassium chloride	7447-40-7	0.395	
Glucose	50-99-7	0.11	
Phosphoric acid, disodium salt	7558-79-4	0.016	
Phosphoric acid, potassium salt (1:1)	7778-77-0	0.015	
Calcium chloride	10043-52-4	0.011	
Magnesium chloride	7786-30-3	0.006	
Phenolsulfonphthalein	143-74-8	0.004	

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms/effects

Notes to Physician

None reasonably foreseeable.

Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Not combustible.

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

Autoignition Temperature

Explosion Limits

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

None reasonably foreseeable.

Hazardous Combustion Products

Sulfur oxides. Hydrogen chloride. Oxides of phosphorus. Calcium oxides. Sodium oxides. Magnesium oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>

Health	Flammability	Instability	Physical hazards
0	0	0	-

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required.

Environmental Precautions Should not be released into the environment. See Section 12 for additional Ecological

Information.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. **Up**

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid

contact with skin, eyes or clothing. Avoid ingestion and inhalation.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Component	Alberta	British Columbia	Ontario TWAEV	Quebec	ACGIH TLV	OSHA PEL	NIOSH
Calcium chloride			TWA: 5 mg/m ³				

Engineering MeasuresNone under normal use conditions.

Personal protective equipment

Eye Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Hand Protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Glove material	Breakthrough time	Glove thickness	Glove comments
Natural rubber	See manufacturers	-	Splash protection only
Nitrile rubber	recommendations		
Neoprene			
PVC			

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

No protective equipment is needed under normal use conditions.

Recommended Filter type: Particle filter

Environmental exposure controls

No information available.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

9. Physical and chemical properties

Puck's G Balanced Salt Solution, with calcium, with magnesium, with phenol red

Physical StateLiquidAppearanceRed

OdorNo information availableOdor ThresholdNo information availablepHNo information availableMelting Point/RangeNo data available

Boiling Point/Range
No information available
Flash Point
Evaporation Rate
No information available
No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper
Lower
No data available
No data available
Vapor Pressure
Vapor Density
No information available
Specific Gravity
No information available
No information available
No information available
No information available
No data available
No data available

Autoignition Temperature

Partition coefficient; n-octanol/water

No data available

No information available

No information available

No information available

No information available

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Sulfur oxides, Hydrogen chloride, Oxides of phosphorus, Calcium oxides, Sodium oxides,

Magnesium oxides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Oral LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Dermal LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Vapor LC50

Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

Component Information

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Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	•	-	-
Sodium chloride	LD50 = 3 g/kg (Rat)	LD50 > 10000 mg/kg (Rabbit)	LC50 > 42 mg/L (Rat) 1 h
Potassium chloride	LD50 = 2600 mg/kg (Rat)	Not listed	Not listed
Glucose	25.8 g/kg (Rat)	Not listed	Not listed
Phosphoric acid, disodium salt	LD50 = 17 g/kg (Rat)	Not listed	Not listed
Phosphoric acid, potassium salt (1:1)	LD50 = 3200 mg/kg (Rat)	LD50 > 4640 mg/kg (Rabbit)	LC50 > 0.83 mg/L (Rat) 4 h
Calcium chloride	2301 mg/kg (Rat)	LD50 > 5000 mg/kg (Rabbit)	Not listed

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Magnesium chloride	LD50 = 2800 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat)	Not listed

Toxicologically Synergistic

No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed				
Sodium chloride	7647-14-5	Not listed				
Potassium chloride	7447-40-7	Not listed				
Glucose	50-99-7	Not listed				
Phosphoric acid, disodium salt	7558-79-4	Not listed				
Phosphoric acid, potassium salt (1:1)	7778-77-0	Not listed				
Calcium chloride	10043-52-4	Not listed				
Magnesium chloride	7786-30-3	Not listed				
Phenolsulfonphthalein	143-74-8	Not listed				

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and No information available

delayed

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium chloride	Not listed	Pimephals prome: LC50:	Not listed	EC50: 1000 mg/L/48h
		7650 mg/L/96h		_
Potassium chloride	EC50: 2500 mg/L/72h	Lepomis macrochirus: LC50:	Not listed	EC50: 825 mg/L/48h
	_	1060 mg/L /96h		_
		Pimephales promelas: LC50:		
		750 - 1020 mg/L /96h		
Calcium chloride	Not listed	Lepomis macrochirus: LC50:	Not listed	EC50: 52 mg/L/48h
		10650 mg/L/96h		
Magnesium chloride	EC50: 2200 mg/L/72h	Pimephales promelas:	EC50 Pseudomonas putida:	EC50 : 1400 mg/L/24h
		EC50: 2.12 g/L:96H	EC50:26,14 g/L/h	_
			Photobacterium	

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phosphoreum: EC50: 36,3 mg/L/30 min Photobacterium phosphoreum: EC50: 77,2	
mg/L/24 h	

Persistence and Degradability Miscible with water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

15. Regulatory information

International Inventories

Component	CAS-No	DSL	NDSL	TSCA	TSCA Inventory notification - Active-Inactive	EINECS	ELINCS	NLP
Water	7732-18-5	X	-	X	ACTIVE	231-791-2	-	-
Sodium chloride	7647-14-5	X	-	X	ACTIVE	231-598-3	•	-
Potassium chloride	7447-40-7	X	-	Х	ACTIVE	231-211-8	-	-
Glucose	50-99-7	X	-	Х	ACTIVE	200-075-1	-	-
Phosphoric acid, disodium salt	7558-79-4	X	-	Х	ACTIVE	231-448-7	-	-
Phosphoric acid, potassium salt (1:1)	7778-77-0	Х	-	Х	ACTIVE	231-913-4	-	-
Calcium chloride	10043-52-4	X	-	Х	ACTIVE	233-140-8	-	-
Magnesium chloride	7786-30-3	Х	-	Х	ACTIVE	232-094-6	-	-
Phenolsulfonphthalein	143-74-8	Х	-	Х	ACTIVE	205-609-7	-	-

Component	CAS-No	IECSC	KECL	ENCS	ISHL	TCSI	AICS	NZIoC	PICCS
Water	7732-18-5	X	KE-35400	X	-	X	Х	Х	Х
Sodium chloride	7647-14-5	X	KE-31387	Х	Х	X	Х	Х	Х
Potassium chloride	7447-40-7	X	KE-29086	Х	Х	X	Х	Х	Х
Glucose	50-99-7	X	KE-17727	X	Х	X	Х	X	Х
Phosphoric acid, disodium salt	7558-79-4	X	KE-12344	Х	Х	X	Х	Х	Х
Phosphoric acid, potassium salt (1:1)	7778-77-0	Х	KE-28622	Х	Х	Х	Х	Х	Х
Calcium chloride	10043-52-4	X	KE-04496	Х	Х	X	Х	Х	Х
Magnesium chloride	7786-30-3	Х	KE-22691	Χ	Х	Х	Х	Х	X
Phenolsulfonphthalein	143-74-8	X	KE-02748	Χ	Х	Χ	Χ	Х	Χ

Legend:

X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

Other International Regulations

Authorisation/Restrictions according to EU REACH

Component		REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	
Calcium chloride	-	Use restricted. See item 75.	-
		(see link for restriction details)	

REACH links

https://echa.europa.eu/substances-restricted-under-reach

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

Component	CAS-No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Water	7732-18-5	Listed	Not applicable	Not applicable	Not applicable
Sodium chloride	7647-14-5	Listed	Not applicable	Not applicable	Not applicable
Potassium chloride	7447-40-7	Listed	Not applicable	Not applicable	Not applicable
Glucose	50-99-7	Listed	Not applicable	Not applicable	Not applicable
Phosphoric acid, disodium salt	7558-79-4	Listed	Not applicable	Not applicable	Not applicable
Phosphoric acid, potassium salt (1:1)	7778-77-0	Listed	Not applicable	Not applicable	Not applicable
Calcium chloride	10043-52-4	Listed	Not applicable	Not applicable	Not applicable
Magnesium chloride	7786-30-3	Listed	Not applicable	Not applicable	Not applicable
Phenolsulfonphthalein	143-74-8	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS-No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable
Sodium chloride	7647-14-5	Not applicable	Not applicable	Not applicable	Not applicable
Potassium chloride	7447-40-7	Not applicable	Not applicable	Not applicable	Not applicable
Glucose	50-99-7	Not applicable	Not applicable	Not applicable	Not applicable
Phosphoric acid, disodium salt	7558-79-4	Not applicable	Not applicable	Not applicable	Not applicable
Phosphoric acid, potassium salt (1:1)	7778-77-0	Not applicable	Not applicable	Not applicable	Not applicable
Calcium chloride	10043-52-4	Not applicable	Not applicable	Not applicable	Not applicable
Magnesium chloride	7786-30-3	Not applicable	Not applicable	Not applicable	Not applicable
Phenolsulfonphthalein	143-74-8	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By

Product Safety Department Email: chem.techinfo@thermofisher.com

www.thermofisher.com

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Revision Summary New emergency telephone response service provider.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS