

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Half Fraser (Demi-Fraser) Broth

 Revision
 3

 Revision date
 2020-04-20

OFOTION 4. Identification of	the substance/windure and of the company/undertaking			
SECTION 1: Identification of	the substance/mixture and of the company/undertaking			
1.1. Product identifier				
Product name	Half Fraser (Demi-Fraser) Broth			
Product code	NCM0001			
1.2. Relevant identified uses of t	he substance or mixture and uses advised against			
Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals; [PROC15] Use as laboratory reagent;			
Description	Intended for laboratory use only. For in vitro use only.			
1.3. Details of the supplier of the	e safety data sheet			
Company	Solus Scientific Solutions Limited			
Address	9 Mansfield Networkcentre, Millennium Business Park			
	Concord Way, Mansfield, NG19 7JZ			
Web	UK www.solusscientific.com			
Telephone	+44 (0)1623 429701			
Email	Solus.info@perkinelmer.com			
1.4. Emergency telephone number				
	+44 (0)1623 429701			

SECTION 2: Hazards identification				
2.1. Classification of the substance or mixture				
2.1.2. Classification - EC 1272/2008	STOT SE 3: H335;			
2.2. Label elements				
Hazard pictograms				





2.2. Label elements

Signal Word	Warning
Hazard Statement	STOT SE 3: H335 - May cause respiratory irritation.
Precautionary Statement: Prevention	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area.
Precautionary Statement: Response	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTER/doctor/ /if you feel unwell.
Precautionary Statement: Storage	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved waste disposal facility in accordance with local and national regulations.
2.3. Other hazards	
Other hazards	Dust may be irritating if inhaled. Contains substance(s) which are hazardous to the environment.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Lithium Chloride		7447-41-8	231-212-3		1 - 10%	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335; Aquatic Acute 3: H402;
Description						
	Conce	ntrations liste	ed are not pr	roduct specifications		
Further information						
	Full tex	t of Hazard	Statements	listed in this Section	is provide	ed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.
Skin contact	Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms	and effects, both acute and delayed

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May cause irritation to respiratory system.

Inhalation



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4.2. Most important symptoms and effects, both acute and delayed				
Eye contact	May cause irritation to eyes.			
Skin contact	May cause irritation to skin.			
Ingestion	Ingestion may cause nausea and vomiting.			
4.3. Indication of any immediate	medical attention and special treatment needed			
	Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.			
SECTION 5: Firefighting mea	asures			
5.1. Extinguishing media				
	Use extinguishing media appropriate to the surrounding fire conditions.			
5.2. Special hazards arising from	n the substance or mixture			
	Avoid formation of dust. Do not allow undiluted product to be released to ground water, water course or sewage system.			
5.3. Advice for firefighters				
	Do not breathe dust or vapour. Wear suitable respiratory equipment when necessary.			
SECTION 6: Accidental relea	ase measures			
6.1. Personal precautions, prote	ctive equipment and emergency procedures			
	Avoid formation of dust. Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the working area. Avoid prolonged or repeated exposure.			
6.2. Environmental precautions				
	Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.			
6.3. Methods and material for co	ntainment and cleaning up			
	Avoid formation of dust. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.			
6.4. Reference to other sections				
	See Section(s) 2, 8, and 13 for further information.			
SECTION 7: Handling and st	torage			
7.1. Precautions for safe handlin	9			
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Use as appropriate: Protective clothing. Read the entire label and follow all use directions, restrictions, and precautions.			
7.2. Conditions for safe storage,	including any incompatibilities			
	Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions.			
7.3. Specific end use(s)				
	See Section(s) 1.2 for further information.			
Further information				



Further information

Refer to product label and/or package insert for additional information.

SECTION 8: Exposure controls/personal protection

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Use as appropriate: Protective equipment.
Eye / face protection	Use as appropriate: Suitable eye protection.
Skin protection - Handprotection	Use as appropriate: Chemical-resistant gloves made of any waterproof material.
Skin protection - Other	Use as appropriate: Protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Occupational exposure controls	Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash station.
Further information	
	Refer to product label for additional PPE requirements and recommendations. Follow label instructions.
SECTION 9: Physical and ch	nemical properties

9.1. Information on basic physical and chemical properties



9.1. Information on basic physical and chemical properties

Appearance	Powder
Colour	Beige
Odour	Characteristic/Mild
Odour threshold	No data available
рН	7 - 7.4
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	Not applicable.
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

9.2. Other information

Benzene Content	Not applicable.
Lead content	Not applicable.
VOC (Volatile organic	Not applicable.
compounds)	

SECTION 10: Stability and reactivity

10	.1.	Reactivit	y
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	Stable under normal conditions.			
10.2. Chemical stability				
	Stable under normal conditions.			
10.3. Possibility of hazardous re	pactions			
	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.			
10.4. Conditions to avoid				
	Keep away from extreme temperatures, Moisture.			
10.5. Incompatible materials				
	No data available.			
10.6. Hazardous decomposition products				
	Carbon oxides.			
SECTION 11: Toxicological information				
11.1. Information on toxicologica	al effects			



11.1. Information on toxicological effects

11.1. Information on toxicologica	al effects		
Acute toxicity	Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.		
Skin corrosion/irritation	May cause irritation to skin.		
Serious eye damage/irritation	May cause irritation to eyes.		
Respiratory or skin sensitisation	May cause allergic reactions in susceptible people.		
Germ cell mutagenicity	No mutagenic effects reported.		
Carcinogenicity	No components at >0,01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. No components at >0.01% are listed in the International Agency for Research on Cancer (IARC) Monographs. No components at >0,01% are listed in the National Toxicology Program (NTP) Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.		
Reproductive toxicity	No teratogenic effects reported.		
STOT-single exposure	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
STOT-repeated exposure	No Significant Hazard.		
Aspiration hazard	No Significant Hazard.		
Repeated or prolonged exposure	Avoid prolonged or repeated exposure. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.		
11.1.2. Mixtures			
	See Section(s) 3 for further information.		
11.1.3. Hazard Information			
	See Section(s) 2 and 3 for further information.		
11.1.4. Toxicological Information	ו		
	No data available		
11.1.5. Hazard Class			
	See Section(s) 2 and 14 for further information.		
11.1.6. Classification Criteria			
	Based on the Globally Harmonised System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.		
11.1.7. Information on likely rout	tes of exposure		
	Eye contact. Skin contact. Inhalation. Ingestion.		
11.1.8. Symptoms related to the	physical, chemical and toxicological characteristics		
	See Section(s) 4.2 for further information.		
11.1.9. Delayed and immediate	effects as well as chronic effects from short and long-term exposure		
	See Section(s) 4.2 for further information.		
11.1.10. Interactive effects			
	No data available.		
11.1.11. Absence of specific dat			
	<1% of this mixture consists of ingredients of unknown acute toxicity.		
11.1.12. Mixture versus substan	ice information		



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11.1.12. Mixture versus substance information		
	See Section(s) 3 for further information.	
11.1.13. Other information		
	No data available.	
SECTION 12: Ecological info	rmation	
12.1. Toxicity		
	No data available	
12.2. Persistence and degradable	lity	
	No data is available on this product.	
12.3. Bioaccumulative potential		
	No data is available on this product.	
Partition coefficient		
	Half Fraser (Demi-Fraser) Broth No data available	
12.4. Mobility in soil		
	No data is available on this product.	
12.5. Results of PBT and vPvB a	assessment	
	No data is available on this product.	
12.6. Other adverse effects		
	Contains substance(s) which are hazardous to the environment. Specific test data for the substance or mixture is not available.	
SECTION 13: Disposal const	iderations	
13.1. Waste treatment methods		
	Dispose of in compliance with all local and national regulations. Follow label instructions.	
Disposal methods		
	Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.	
Disposal of packaging		
	Nonrefillable container. Do not reuse or refill this container. If empty: Do not reuse this container. Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.	
Further information		
	Refer to product label and/or package insert for additional information. Follow label instructions.	
SECTION 14: Transport information		
14.1. UN number		
	The product is not classified as dangerous for carriage.	
14.2. UN proper shipping name		



14.2. UN proper shipping name		
	The product is not classified as dangerous for carriage.	
14.3. Transport hazard class(es)		
	The product is not classified as dangerous for carriage.	
14.4. Packing group		
	The product is not classified as dangerous for carriage.	
14.5. Environmental hazards		
	The product is not classified as dangerous for carriage.	
14.6. Special precautions for user		
	The product is not classified as dangerous for carriage.	
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
	The product is not classified as dangerous for carriage.	

SECTION 15: Regulatory information

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

Regulations	1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
Chemical	International
Inventories/Right-to-Know	Basel Convention (Hazardous Waste): Not applicable.
Lists:	Chemical Weapons Convention (OPCW): This product does not contain reportable substances at
	>0,0001% concentration.
	Kyoto Protocol Greenhouse Gases: This product does not contain reportable substances at
	>0,0001% concentration.
	Mercosur Agreement: Not applicable.
	Montreal Protocol: This product does not contain reportable substances at >0,0001%
	concentration.
	The Rotterdam Convention: This product does not contain reportable substances at >0,0001%
	concentration.
	The Stockholm Convention: This product does not contain reportable substances at >0,0001%
	concentration.
	Asia and the ASEAN Nations
	Catalog of Hazardous Chemicals (China): This product does not contain reportable substances at
	>0,0001% concentration.
	Regulation of Minister of Trade of the Republic of Indonesia, Number 75, Year 2014, regarding The
	Second Amendment of Minister of Trade, Number 44, Year 2009, Regarding Provision,
	Distribution, and Control of Hazardous Substances: This product does not contain reportable
	substances at >0,0001% concentration.
	Air Pollution Control Law (Japan): This product does not contain reportable substances at
	>0,0001% concentration.
	Chemical Substances Control Law (Japan): This product does not contain reportable substances
	at >0,0001% concentration.
	Industrial Safety and Health Act, Dangerous Substances (Japan): This material contains no
	reportable components.
	Poisonous and Deleterious Substances Act (Japan): This product does not contain reportable substances at >0,0001% concentration.
	Soil Contamination Countermeasures Act (Japan): This product does not contain reportable
	substances at >0,0001% concentration.
	Water Pollution Control Law (Japan): This product does not contain reportable substances at



15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
	>0,0001% concentration.	
	Chemical Substances Subject to Permission (Korea): This product does not contain reportable	
	substances at >0,0001% concentration.	
	Restricted or Prohibited Substances (Korea): This product does not contain reportable substances	
	at >0,0001% concentration.	
	Use and Standards of Exposure of Chemicals Hazardous to Health (USECHH), Regulation 2000	
	(Malaysia): This product does not contain reportable substances at >0,0001% concentration.	
	Philippine Inventory of Chemicals and Chemical Substances (PICCS): All ingredients listed or	
	exempt.	
	Taiwan Toxic and Concerned Chemical Substances Control Act (TCCSCA): This product does not	
	contain reportable substances at >0,0001% concentration.	
	Hazardous Substances Act (Thailand): This product does not contain reportable substances at	
	>0,0001% concentration.	
	Law on Chemicals (Vietnam): This product does not contain reportable substances at >0,0001%	
	concentration.	
	Australia and New Zealand	
	Australian Dangerous Goods Code: Not applicable.	
	Australian Inventory of Chemical Substances (AICS): All ingredients listed or exempt.	
	New Zealand Inventory of Chemicals (NZIoC): All ingredients listed or exempt.	
	European Union (EU) and the United Kingdom (UK)	
	Authorisation List (Annex XIV of REACH): This product does not contain reportable substances at	
	>0,0001% concentration.	
	Annex XVII for REACH: This product does not contain reportable substances at >0,0001%	
	concentration.	
	Article 95 of the Biocidal Products Regulation (BPR): Not applicable.	
	North America	
	Domestic/Non-Domestic Substances Lists (DSL/NDSL): All ingredients listed or exempt.	
	Toxic Substances Control Act (TSCA): All ingredients listed or exempt.	
	Massachusetts Right-to-Know Hazardous Substance List: Sodium phosphate dibasic.	
	New Jersey Worker and Community Right to Know Act: Sodium phosphate dibasic.	
	Pennsylvania Right to Know Law: Phosphoric acid, disodium salt.	
	Rhode Island Right-to-Know General Law: This product does not contain reportable substances	
	at >0,0001% concentration.	
	California residents please note.	
	WARNING: This product can expose you to chemicals, including Nalidixic acid, CAS No.	
	389-08-2, which is/are known to the State of California to cause cancer. For more information go	
	to www.P65Warnings.ca.gov.	

SECTION 16: Other information

Other information Revision This document differs from the previous version in the following areas:. 1 - Description. 1 - Description. 1 - Product Use. 1 - Manufactured By:. 2 - Other hazards. 3 - Description. 9 - 9.1. Information on basic physical and chemical properties (Odour). 9 - 9.2. Other information (Benzene Content).



Other information	
	9 - 9.2. Other information (Lead content).
	11 - Acute toxicity.
	12 - 12.1. Toxicity.
	12 - 12.6. Other adverse effects.
	15 - Chemical Inventories/Right-to-Know Lists:.
Acronyms	ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by
	Rail (RID) and by Road (ADR).
	CAS No.: Chemical Abstracts Service.
	CLASS: Classification, Labelling, and Safety Data Sheet of Hazardous Chemicals Regulation 2013
	(Malaysia).
	FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.
	GHS: Globally Harmonized System.
	HCS 2012: U.S. Hazard Communication Standard (2012 revision).
	IATA: International Air Transport Association.
	ICAO: International Civil Aviation Organisation.
	IMDG: International Maritime Dangerous Goods.
	LD: Lethal dose.
	OEL: Occupational exposure limit.
	OSHA: U.S. Occupational Safety and Health Administration.
	PEL: Permissible Exposure Limit.
	REACH: Registration, Evaluation, Authorisation, and Restriction of Chemicals.
	SVHC: Substance of very high concern.
	US DOT: United States Department of Transportation.
	VOC: Volatile Organic Compound.
	WEL: Workplace Exposure Limit.
Text of Hazard Statements in	Acute Tox. 4: H302 - Harmful if swallowed.
Section 3	Skin Irrit. 2: H315 - Causes skin irritation.
	Eye Irrit. 2: H319 - Causes serious eye irritation.
	STOT SE 3: H335 - May cause respiratory irritation.
	Aquatic Acute 3: H402 - Harmful to aquatic life.
Further information	
	DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.
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