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SAFETY DATA SHEET

FABP4 (human recombinant) Revision: 06/04/2015 Supersedes Revision: 01/15/2008 according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking **Product Code:** 10009549 **Product Name:** FABP4 (human recombinant) Synonyms: Adipocyte FABP; A-FABP; ALBP; aP2; Fatty Acid Binding Protein 4; Relevant identified uses of the substance or mixture and uses advised against: Relevant identified uses: For research use only, not for human or veterinary use. Details of the Supplier of the Safety Data Sheet: **Company Name:** Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Cayman Chemical Company +1 (734)971-3335 **Emergency telephone number:** CHEMTREC Within USA and Canada: **Emergency Contact:** +1 (800)424-9300 CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification Classification of the Substance or Mixture: Skin Corrosion/Irritation, Category 3 Serious Eye Damage/Eye Irritation, Category 2 Label Elements: **GHS Signal Word:** Warning **GHS Hazard Phrases:** H316: Causes mild skin irritation. H319: Causes serious eye irritation. **GHS Precaution Phrases:** P264: Wash {hands} thoroughly after handling. P280: Wear {protective gloves/protective clothing/eye protection/face protection}. **GHS Response Phrases:** P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+313: If skin irritation occurs, get medical advice/attention. P337+313: If eye irritation persists, get medical advice/attention. **GHS Storage and Disposal Phrases:** Please refer to Section 7 for Storage and Section 13 for Disposal information.



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2.3	Adverse Human Health	Causes mild skin irritation.
	Effects and Symptoms:	Causes serious eye irritation.
		Material may be irritating to the mucous membranes and upper respiratory tract.
		May be harmful by inhalation, ingestion, or skin absorption.
		May cause respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA	FABP4 (human recombinant)	0.0 -1.0 %	NA NA	No data available.
56-81-5 MA8050000	Glycerol	20.0 %	200-289-5 NA	Skin Corr. 3: H316 Eye Damage 2B: H320
7558-80-7 WA1900000	Sodium phosphate, Monobasic	0.0 -1.0 %	231-449-2 NA	Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336
7558-79-4 WC4500000	Sodium phosphate, Dibasic	0.0 -1.0 %	231-448-7 NA	Eye Damage 2: H319
7647-14-5 VZ4725000	Sodium chloride	0.0 -1.0 %	231-598-3 NA	Eye Damage 2A: H319 STOT (SE) 3: H335 H336
7732-18-5 ZC0110000	Water	65.0 -85.0 %	231-791-2 NA	No data available.

Section 4. First Aid Measures

4.1 Description of First Aid

Measures:	
In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.
	Get immediate medical attention.
In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated
	clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined
	and tested by medical personnel.
In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an
	unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by
	medical personnel.

Section 5. Fire Fighting Measures

5.1	1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.			
	Media:	Use water spray to cool fire-exposed containers.		
	ent.			
	Media:			
5.2 Flammable Properties and Emits toxic fumes under fire conditions.				
	Hazards:			
		No data available.		
	Flash Pt:	No data.		
	Explosive Limits:	LEL: No data.	UEL: No data.	
	Autoignition Pt:	No data.		



5.3

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Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

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	equivalent), and fu	Ill protective gear to prevent co	ntact with skin and eyes.						
	Section 6. A	Accidental Release	Measures						
Protec Emerg 6.2 Enviro Preca	Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).								
	Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.								
	Section	7. Handling and Sto	orage						
in Har	utions To Be Taken Keep container tig ring: Store in accordance	r repeated exposure. htly closed. ce with information listed on the	e product insert.						
	Section 8. Expos	sure Controls/Perso	nal Protection						
8.1 Expos	ure Parameters:								
CAS #	Partial Chemical Name	Britain EH40	France VL	Europe					
NA	FABP4 (human recombinant)	No data.	No data.	No data.					
56-81-5	Glycerol	TWA: 10 mg/m3 () STEL: ()	TWA: 10 mg/m3	No data.					
7558-80-7	Sodium phosphate, Monobasic	No data.	No data.	No data.					
7558-79-4	Sodium phosphate, Dibasic	No data.	No data.	No data.					
7647-14-5	Sodium chloride	No data.	No data.	No data.					
7732-18-5	Water	No data.	No data.	No data.					
CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits					
NA	FABP4 (human recombinant)	No data.	No data.	No data.					
56-81-5 Glycerol		PEL: 15 (dust); 5 (resp.) mg/m3	TLV: 10 mg/m3	No data.					
7558-80-7	Sodium phosphate, Monobasic	No data.	No data.	No data.					
7558-79-4	Sodium phosphate, Dibasic	No data.	CEIL: 0.29 mg/m3	No data.					
7647-14-5	Sodium chloride	No data.	No data.	No data.					
7732-18-5	Water	No data.	No data.	No data.					
8.2.1 Engin (Venti 8.2.2 Perso Eye P Protec Other Respi (Spec	lation etc.):levels below recornal protection equipment:rotection:Safety glassesctive Gloves:Compatible chemiProtective Clothing:Lab coat	osures, local exhaust ventilation nmended exposure limits. cal-resistant gloves respirator, as conditions warrar ally.							
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	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower			
		Wash thoroughly after handling.			
		No data available.			
	Se	ection 9. Physical and Chemical Properties			
9.1	Information on Basic Physical and Chemical Properties				
	Physical States:	[]Gas [X]Liquid []Solid			
	Appearance and Odor:	A solution in 50 mM of sodium phosphate, pH 7.2, containing 100 mM sodium chloride and			
		20% glycerol			
	Melting Point:	No data.			
	Boiling Point:	No data.			
	Flash Pt:	No data.			
	Evaporation Rate:	No data.			
	Flammability (solid, gas):	No data available.			
	Explosive Limits:	LEL: No data. UEL: No data.			
	Vapor Pressure (vs. Air or	mm No data.			
	Hg): Vapor Density (vs. Air = 1): No data.			
	Specific Gravity (Water = Solubility in Water:	1): No data. No data.			
	-				
	Autoignition Pt:	No data.			
9.2	Other Information				
	Percent Volatile:	No data.			
		Section 10. Stability and Reactivity			
10.1	Reactivity:	No data available.			
10.2	Stability:	Unstable [] Stable [X]			
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.			
	Polymerization:	Will occur [] Will not occur [X]			
10.4	Conditions To Avoid:	No data available.			
10.5	Incompatibility - Materials				
	To Avoid:	strong oxidizing agents			
10.6	Hazardous	carbon dioxide			
	Decomposition or	carbon monoxide			
	Byproducts:				



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Cay	T man		FABP4 (human re	combina			ion: 06/04/2015 ion: 01/15/2008
			Section 11. Toxicologica	l Informa	ation		
11.1		ogical Effects: Toxicological	The toxicological effects of this product have not been thoroughly studied. Glycerol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 500 mg (24h) mild; Glycerol - Investigated as a mutagen, reproductive effector, and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented her See actual entry in RTECS for complete information. Glycerol RTECS Number: MA8050000				
	nogenicity	1	NTP? No IARC Monographs? No		egulated? No		
CAS	#	Hazardous Cor	nponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
	NA	FABP4 (human	recombinant)	n.a.	n.a.	n.a.	n.a.
56	6-81-5	Glycerol		n.a.	n.a.	n.a.	n.a.
755	58-80-7	Sodium phospha	ate, Monobasic	n.a.	n.a.	n.a.	n.a.
755	58-79-4	Sodium phospha	ate, Dibasic	n.a.	n.a.	n.a.	n.a.
764	17-14-5	Sodium chloride		n.a.	n.a.	n.a.	n.a.
773	32-18-5	Water		n.a.	n.a.	n.a.	n.a.
			Section 12. Ecological	Informat	ion		
12.1 12.2 12.3 12.4 12.5 12.6	Degrada Bioaccu Potentia Mobility Results assess Other ac	ence and ability: imulative al: in Soil: of PBT and vPvB nent: dverse effects:	Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co	nsiderat	ions		
13.1	Waste D	isposal Method:	Dispose in accordance with local, state,	and federal r	egulations.		
			Section 14. Transport	Informat	ion		
14.1	LAND T	RANSPORT (US	DOT):				
D U)OT Hazar JN/NA Nur	nber:					
U H	ADR/RID S IN Numbe lazard Cla	hipping Name: r: ss:	ropean ADR/RID): Not dangerous goods.				
14.3		ANSPORT (ICAO					
		Shipping Name					
	tional Trai mation:	nsport	Transport in accordance with local, state	, and tedera	i regulations.		

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		Section 15. Regu	llatory Inform	ation		
EPA SARA (Si	uperfund Amendn	nents and Reauthorization Act	t of 1986) Lists			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
NA	FABP4 (human r	ecombinant)	No	No	No	
56-81-5	Glycerol		No	No	No	
7558-80-7	Sodium phospha	te, Monobasic	No	No	No	
7558-79-4	Sodium phospha	te, Dibasic	No	Yes 5000 LB	No	
7647-14-5	Sodium chloride		No	No	No	
7732-18-5	Water		No	No	No	
CAS #	Hazardous Com	nponents (Chemical Name) Other US EPA or State Lists				
NA	FABP4 (human r		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
56-81-5	Glycerol		CAA HAP,ODC: Inventory; CA P	No; CWA NPDES: ROP.65: No	No; TSCA: Yes -	
7558-80-7	Sodium phospha	te, Monobasic	· ·	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
7558-79-4	Sodium phospha	te, Dibasic	· · · ·	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
7647-14-5	Sodium chloride		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
7732-18-5	Water		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
Regulatory Information Statement:		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Of	ther Information	on		
Revision Date:		06/04/2015				
Additional Information About		No data available.				
Company Polic	cy or Disclaimer:	DISCLAIMER: This information currently available to us. Howe express or implied, with respec- use. Users should make their their particular purposes.	ever, we make no wa ct to such information	nranty of merchanta	bility or any other warranty, o liability resulting from its	

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