

SAFETY DATA SHEET

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Revisio	n date 2024-01-11	Version # 1.2	Supersedes date 2024-01-10
Sectio	n 1: Product and Co	ompany Identification	
1.1 P	roduct name	Fructosamine Reagent	
S	ubstance/mixture	mixture	
C	AS #	mixture	
K	it number	C412-0A, C414-02, V412-12	
1.2 R	ecommended product	ISE	
Μ	lixture's intended use	Diagnostic reagent for IN VITRO quantit	ative measurement of fructosamine in serum a
		plasma only.	
Р	roduct restrictions	None known	
I.3 D	etails of the supplier of	the safety data sheet	
Μ	lanufacturer information	1	
С	orporate Headquarters	Catachem, Inc.	
		353 Christian Street Oxford, CT 06478	
		United States of America	
		www.catacheminc.com	
Т	elephone	Phone: +1 (203) 262-0330	
E	mail	catachem@catacheminc.com	
D	istributor information		
D	istributor Headquarters	Nuuchem Diagnostics Ltd.	
		18 Killuney Rd. Armagh, N. Ireland	
		United Kingdom	
Т	elephone	+44 7778 925522	
E	mail	Trevor.templeton@nuuchem.com	
1.4 E	mergency Telephone		
E	mergency Phone #	+1 (203) 232-1979	

Section 2: Hazards Identification

2.1 Substance or mixture classification

Physical state	Liquid
Appearance	Transulcent pink solution
Emergency overview	Harmful if swallowed. May cause damage to eyes and skin, do not ingest. Do not allow to
	enter drains and sewers.

2.2 Label Elements Signal word Hazard Pictogram

Warning



Hazardous substances

Biosoft N1-7, Potassium carbonate.

	OSHA regulatory status	This product is hazardous according to OSHA 29CFR 1910.1200.
2.3 Potential health effects		
	Routes of exposure	Skin contact. Eye contact.
	Eyes	May cause eye irritation or serious eye damage.
	Skin	May cause skin irritation or skin burns.
	Inhalation	In high concentrations, vapors may be irritating to the upper respiratory tract leading to
		chemical pneumonitis and pulmonary edema.
	Ingestion	If swallowed, may cause discomfort and lead to gastrointestinal tract burns.
	Target organs	Eyes, lungs and skin.
	Chronic effects	Repeated skin contact may cause dermatitis.
	Signs and symptoms	Direct contact with skin and eyes may cause irritation.
2.4	Potential environmental e	effects

The product components are not classified as environmentally hazardous. However, this does not eliminate the possibility that large or frequent spills can have a harmful or damaging impact on the environment.

Section 3: Composition / Information on Ingredients

Components:

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Biosoft N1-7	34398-01-1	Acute toxicity, oral Category	=2.0%
		4 Serious eye damage/eye	
		irritation Category 1	
		Hazardous to the aquatic	
		environment, acute	
		Category 2 hazard	
Potassium Carbonate	584-08-7	Skin irritation (Category 2),	<3.0%
		H315 Eye irritation	
		(Category 2A), H319	
		Specific target organ toxicity	
		- single exposure (Category	
		3), Respiratory system,	
		H335	

Section 4: First Aid Measures

4.1 Description of First aid measures

Eye contact	In case of eye contact, immediately flush eyes with fresh water for at least 15 minutes while
	holding eyelids open. Remove contact lenses immediately if worn by the affected person.
	Pursue medical treatment if irritation persists.
Skin contact	In case of skin contact, remove any or all of contaminated clothing, while rinsing the
	affected skin with large amounts of water. Pursue medical attention if irritation develops
	and persists.

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	Inhalation In case of inhalation, move the affected person to fresh air. Call a physician if sy develop or persist.	
		Do NOT induce vomiting. In case of ingestion, make the affected person either drink some water or rinse out their mouth. If any other symptoms persist, contact a medical professional or a poison control center.
	Notes to physician	Provide general supportive measures and treat symptomatically.
General advice If you feel unwell, seek medical advice.		If you feel unwell, seek medical advice.
4.2	4.2 Most important symptoms and effects, both acute and delayed	
	Eye Contact	Causes serious eye damage
	Skin contact	Causes skin irritation
	Inhalation	Causes corrosion of the breathing system
	Ingestion	Causes corrosion of the digestion system

Section 5: Fire Fighting Measures

5.1 Flammable properties This product is not flammable.

5.2 Extinguishing media

Suitable extinguishing media

Extinguish with water spray, carbon dioxide (CO2), dry chemical or material appropriate for the surrounding fire.

Unsuitable extinguishing media

No limitations are given.

5.3 Protection of firefighters

Specific hazards arising from the chemical

Carbon oxides

Sulfur oxides

Nitrogen oxides (NOx)

Sodium oxides

Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials. Avoid contaminating surface water with fire extinguishing water.

Hazardous combustion Products

Hazardous combustion gases or vapors may develop in the event of fire.

Section 6: Accidental Release Measures

6.1 Personal precautions Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

6.2 Environmental precautions Avoid contamination to enter drains, sewers or watercourses.

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6.3 Methods for containment and cleaning up

	Absorb spillage with non-combustible, absorbent material such as sand, diatomace	
earth, vermiculite or other inert material. Dispose of waste in acc		earth, vermiculite or other inert material. Dispose of waste in accordance with all applicable
		federal, state, local and provincial environmental regulations, per Section 13.
6.4	Other information	Clean up in accordance with all applicable regulations.

Section 7: Handling and Storage

7.1	Safe Handling	Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable
		respiratory equipment. Handle and open container with care.
	Hygiene measures	Wash exposed skin thoroughly after handling.
7.2	Storage	Store at 2-8°C (35-46°F). Store in a closed container away from incompatible materials.

Section 8: Exposure Controls / Personal Protection

8.1 Occupational exposure limits

		No exposure limits noted for ingredient(s).
Exposur	e guidelines	Follow standard monitoring procedures.
Enginee	ring controls	Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk
		of inhalation of vapors. Provide easy access to water supply and eye wash facilities.
8.2 Persona	I protective equip	oment
Eye / fac	e protection	Wear appropriate safety glasses, goggles or face shields.
Skin pro	otection	Wear lab coat or other protective garments. Wear protective gloves. Remove any
		contaminated clothing promptly.
Respirat	tory protection	Under normal conditions, respirator is not required.
General	hygiene conside	rations
		Handle in accordance with good industrial hygiene and safety practice.
Other in	formation	Do NOT eat, drink or smoke during use.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Physical state	Liquid
Form	Liquid
Color	Transulcent pink
Odor	Odorless
Odor threshold	No data available
рН	10-12 @ (25°C)
Vapor pressure	No data available
Vapor density	No data available
Boiling point	No data available
Viscosity (mm²/s)	No data available
Melting/Freezing point	No data available

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Solubility (water)	Soluble
Specific gravity	1-1.1
Flash point	No data available
Flammability limits in air, u	ipper, % by volume
	No data available
Flammability limits in air, le	ower, % by volume
	No data available
Decomposition temperatur	e No data available
Auto-ignition temperature	No data available
Evaporation rate	No data available

Section 10: Stability and Reactivity Information

10.1 Reactivity	No data available
10.2 Chemical stability	Material is stable under normal conditions.
10.3 Possibility of hazardous F	Reactions
	Hazardous polymerization does not occur.
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	No data available
10.6 Hazardous decomposition	n Products
	In the event of fire, refer to Section 5.3

Section 11: Toxicological Information

11.1 Information on toxicological effects

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Sensitization	Not classified.
Acute effects	May cause discomfort if swallowed.
Local effects	Ingestion may cause irritation and nausea.
Chronic effects	No data available.
Carcinogenicity	Not classified to carcinogenicity to humans.
Epidemiology	No epidemiological data is available for this product.
Mutagenicity	Not classified.
Reproductive effects	Not classified.
Symptoms and target organs	
	Direct contact with skin and eyes may cause irritation.
Additional information	No other specific acute or chronic health impact noted.

Section 12: Ecological Information

12.1 Toxicity				
Ecotoxicity	The product is not clas	sified as enviror	nmentally hazai	dous. However, this does not exclude
	the possibility that larg	e or frequent sp	ills can have a l	harmful or damaging effect on the
	environment.			
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handl		vent of unprofessional handling or	
	disposal.			
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12.2 Persistence and degradability

No data is available on the degradability of this product.

12.3 Bioaccumulation/Accumulation

No data available.

12.4 Mobility in environmental media

The product is completely soluble in water.

Section 13: Disposal Considerations

13.1 Disposal methods

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Disposal instructions	Contaminated instruments and surfaces should be disinfected in accordance with	
	your employer's chemical-specific and universal/standard precautions.	
Waste from residues / unused products		
	Dispose in accordance with all applicable local and national regulations. Avoid releasing	
	unused products into drainage systems and/or into the environment.	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or	
	disposal.	

Section 14: Transport Information

DOT	Not regulated as a hazardous material by DOT.
ΙΑΤΑ	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
TDG	Not regulated as dangerous goods.

Section 15: Regulatory Information

US federal regulations This product is hazardous according to OSHA 29CFR 1910.1200. TSCA Section 12(b) Export Notification (40 CFR 707, Subpart. D) Not regulated. Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. CERCLA (Superfund) reportable quantity (lb.) (40 CFR 302.4) None Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - No **Delayed Hazard - No** Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Section 302 extremely No hazardous substance (40 CFR 355, Appendix A) Section 311/312 (40 CFR370) No 353 Christian Street, Suite 2 • Oxford, Connecticut • USA 06478 •Phone: (203) 262-0330 •Fax: (203) 262-9836 •catachem@catacheminc.com Revision Number Change Date Operator 2024.01.11 EB 1.2 Page **6** of **8**

Drug Enforcement				
Administration (DEA) (21 CFR				
1308.11-15)	Not controlled			
Canadian regulations	This product has been classified in accordance with the hazard crite	ria of the CPR and the		
	MSDS contains all the information required by the CPR.			
WHMIS status	Non-controlled			
Inventory status				
Country(s) or region l	nventory name On inventory (yes/no)*			
Australia	Australian Inventory of Chemical Substances (AICS)	Yes		
Canada	Domestic Substances List (DSL)	Yes		
Canada	Non-Domestic Substances List (NDSL)	No		
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes		
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes		
Europe	European List of Notified Chemical Substances (ELINCS)	No		
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes		
Korea	Existing Chemicals List (ECL)	Yes		
New Zealand	New Zealand Inventory	Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)			
United States				
& Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes		
*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)				
State regulations	This product does not contain a chemical known to the State of Calif	ornia to cause cancer,		
	birth defects or other reproductive harm.			

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

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Mexico regulations
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This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

Section 16: Other Information

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NFPA ratings

Physical hazard: 0 Health: 0 Flammability: 0 Instability: 0

Disclaimer The above information is believed to be correct, but does not purport to be all inclusive and should be used only as a guide. Catachem Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.