FUJIFILM



94149

SAFETY DATA SHEET

Issuing Date: 05-May-2023

Version 1

BALANCD CHO PERFUSION

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	BALANCD CHO PERFUSION
Product code	94149
Product Use	Laboratory chemicals.
Distributed in the USA by FUJIFILM Irvine Scientific, Inc. 2511 Daimler Street Santa Ana, CA 92705 U.S.A.	
SDSs are available at the following website(s):	http://www.irvinesci.com
Company Phone Number	Technical: 800-437-5706 Fax: 949-261-6522
Emergency Telephone	Transport-CHEMTREC Inside NA: 800-424-9300 Transport-CHEMTREC Outside NA: 703-527-3887 Transport-CANUTEC Inside Canada: 613-996-6666 Medical Emergency (24 hour): 877-935-7387
E-mail	fisitmrequest@fujifilm.com

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1B

Reproductive toxicity

Category 1B

GHS Label elements, including precautionary statements

Danger

Hazard Statements

Harmful if swallowed Causes skin irritation Causes serious eye damage May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction May cause cancer May damage fertility or the unborn child



Precautionary Statements

Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray In case of inadequate ventilation wear respiratory protection Contaminated work clothing should not be allowed out of the workplace Wear protective gloves

Response

If exposed or concerned: Get medical advice/attention IF exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse If skin irritation or rash occurs: Get medical advice/attention IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

Storage

Store locked up

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not classified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Hydrochloride compound	Proprietary	7-13%
Amino compound	Proprietary	5-10%
Organosulfur compund	Proprietary	1-5%
Sodium compound	Proprietary	0.5-1.5%
Sodium compound	Proprietary	0.5-1.5%
Chloride compound	Proprietary	0.5-1.5%
Sodium compound	Proprietary	0.1-1%
Hydrate salt	Proprietary	0.1-1%
Hydrochloride compound	Proprietary	0.1-1%

4. FIRST AID MEASURES

Description of first aid measures

General advice If symptoms persist, call a physician.

Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
Skin contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation Move to fresh air. If symptoms persist, call a physician.

 Ingestion
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/ physician.

Most important symptoms and effects, both acute and delayed

Burning sensation. May cause redness, itching, and pain. May cause allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, CO2, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media

None known.

Specific hazards arising from the chemical

May cause sensitization by skin contact. May cause sensitization by inhalation.

Hazardous Combustion Products

Carbon oxides. Nitrogen oxides (NOx). Sodium oxides. Hydrogen chloride.

Explosion Data

Sensitivity to Mechanical Impact none

Sensitivity to Static Discharge none

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid contact with skin, eyes or clothing.

Environmental precautions

Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for ContainmentPrevent further leakage or spillage if safe to do so. Avoid dust formation.Methods for cleaning upUse personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize
spreading and keep powder dry. Pick up and transfer to properly labeled containers. Clean
contaminated surface thoroughly. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Do not breathe vapors/dust. Ensure adequate ventilation. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid exposure during pregnancy.

Conditions for safe storage, including any incompatibilities

Keep in properly labeled containers. Keep container tightly closed in a dry and well-ventilated place. Keep at temperatures between 2 and 8 °C (35 and 46 °F).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA - Workplace Environmental Exposure Levels (WEELs) - TWAs
Sodium compound	TWA: 0.2 mg/m ³ Se	TWA: 0.2 mg/m ³ Se (vacated) TWA: 0.2 mg/m ³		
		Se	Selenium hexafluoride Se	
Hydrate salt	TWA: 1 mg/m³ Cu dust and mist		IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist	
Hydrochloride compound	TWA: 0.02 mg/m ³ Co inhalable particulate matter			

Appropriate engineering controls

Engineering Measures	Ventilation systems	
Individual protection measures, such as personal protective equipment		
Eye/Face Protection	Tightly fitting safety goggles.	
Skin and body protection	Wear protective gloves/clothing.	
Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment.	
General Hygiene Considerations	When using do not eat, drink or smoke. Take off contaminated clothing and wash before reuse. Regular cleaning of equipment, work area and clothing is recommended.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor Threshold	Powder Not available	Physical state Odor pH	Solid Not available No data available
Molecular Weight Autoignition temperature Boiling point / boiling range Freezing Point Flammability Limit in Air	Not available Not available Not available Not available Not available	Flash point Decomposition temperature Melting point / melting range	Not available Not available Not available
Oxidizing Properties Solubility Evaporation rate Vapor density VOC (Ib/gal) Dynamic viscosity	Not available Not available Not available No data available Not available Not available	Explosive Properties Partition coefficient Vapor Pressure Density VOC (g/I)	Not available Not available Not available Not available Not available

10. STABILITY AND REACTIVITY

Reactivity

Stable under recommended storage conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Excessive heat. Freezing.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products

None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Acute toxicity	
Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Eyes	Risk of serious damage to eyes.
Skin	Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion	Harmful if swallowed.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloride compound	= 4000 mg/kg (Rat)		
Organosulfur compund	= 1130 mg/kg (Rat)		
Sodium compound	= 1153 mg/kg (Rat)		
Sodium compound	= 7 mg/kg (Rat)		
Hydrate salt	= 960 mg/kg (Rat)	> 8 g/kg (Rabbit)	
Hydrochloride compound	= 766 mg/kg (Rat)		

Symptoms related to the physical, chemical and toxicological characteristics

No information available.

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

Irritation	Irritating to skin. Severe eye irritant.
Corrosivity	Corrosive to eyes.
Sensitization	May cause sensitization by skin contact. Reactive chemicals of the type contained in this
Mutagenic Effects	product have been associated with respiratory sensitisation. No information available.
Reproductive Toxicity	Product is or contains a chemical which is a known or suspected reproductive hazard.
Carcinogenicity	Contains a known or suspected carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Sodium compound		Group 3		
Hydrochloride compound	A3	Group 2B	Reasonably Anticipated	Х

ACGIH: (American Conference of Governmental Industrial Hygienists)		IARC: (International Agency for Research on Cancer) Group 2B: Possibly carcinogenic to humans
A3 - Animal Carcinogen		Group 3: Not classifiable as to its carcinogenicity to humans
NTP: (National Toxicity Program) Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen		OSHA: (Occupational Safety & Health Administration) X - Present
STOT - single exposure	No information available.	
STOT - repeated exposure	No information available.	

Target organ effects

Skin, Blood, Eyes, Respiratory system, Reproductive system, Gastrointestinal tract (GI).

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1822 mg/kg mg/l

ATE: Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium compound		LC50: =210mg/L (96h,		
		Brachydanio rerio)		
Hydrate salt		LC50: 0.66 - 1.15mg/L (96h,		EC50: 0.147 - 0.227mg/L
		Lepomis macrochirus)		(48h, Daphnia magna)
		LC50: 0.96 - 1.8mg/L (96h,		
		Lepomis macrochirus)		
		LC50: 0.1478 - 0.165mg/L		
		(96h, Oncorhynchus mykiss)		
		LC50: 0.09 - 0.19mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =0.6752mg/L (96h,		
		Pimephales promelas)		

Persistence and degradability

No information available.

Bioaccumulation

Chemical name	Partition coefficient
Hydrochloride compound	-0.7

<u>Mobility</u>

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Dispose of in accordance with local regulations.

Contaminated packaging

Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT	Not regulated
MEX	Not regulated
ICAO (air)	Not regulated
IATA_ Precautionary Statements - Response	Not regulated
IMDG	Not regulated
ADR	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	No
DSL/NDSL	No
PICCS	No
EINECS/ELINCS	No
ENCS	No
IECSC	No
KECL	No
AIICS	No

*Yes - All component(s) of this product are included or are exempt from listing on the inventory.

*No - Indicates the component(s) of this product are either not listed or have not been determined to be listed on the inventory.

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

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

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

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIICS - Australian Inventory of Industrial Chemicals

U.S. Federal Regulations

TSCA Sections 4, 5 and 12(b)

This product does not contain any chemicals regulated by TSCA Sections 4, 5 or 12(b).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	CAS No	SARA 313 - Threshold Values %	Weight-%
Hydrochloride compound	Proprietary		7-13%

94149 - BALANCD CHO PERFUSION

Amino compound	Proprietary		5-10%
Organosulfur compund	Proprietary		1-5%
Sodium compound	Proprietary		0.5-1.5%
Sodium compound	Proprietary		0.5-1.5%
Chloride compound	Proprietary		0.5-1.5%
Sodium compound	Proprietary	1.0	0.1-1%
Hydrate salt	Proprietary	1.0	0.1-1%
Hydrochloride compound	Proprietary	0.1	0.1-1%

SARA 311/312 Hazard Categories

Classification is shown in section 2 of this SDS.

Clean Water Act.

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):.

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium compound	100 lb	Х		Х
Hydrate salt		Х		

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):.

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium compound	100	100 lb	RQ 100 lb final RQ RQ 45.4 kg final RQ

U.S. State Regulations

California Proposition 65

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WARNING: Cancer - www.P65Warnings.ca.gov; Reproductive Harm - www.P65Warnings.ca.gov

Chemical name	CAS No	California Prop. 65	Weight-%
Nickel sulphate hexahydrate	10101-97-0	Carcinogen	<0.1%
		Developmental	
		Male Reproductive	

U.S. State Right-to-Know Regulations

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium compound	Х	Х	Х	Х	
Hydrate salt		Х	Х		
Hydrochloride compound		Х	X	Х	

International Regulations

<u>Canada - NDSL</u> This product does not contain any NDSL chemicals.

Mexico - Grade

No information available

Mexico - Carcinogen Status and Exposure Limits

Chemical name	Mexico	Exposure Limits
Sodium compound		Mexico: TWA 0.2 mg/m ³
Hydrochloride compound	A3	Mexico: TWA 0.02 mg/m ³

Other Regulations No information available.

	16. OTHER INFORMATION				
NFPA	Health hazards 3	Flammability 0	Instability 0	Special hazards -	
HMIS	Health hazards 3	Flammability 0	Physical hazards 0	Personal protection B	
Prepared By	FUJIFILM Environment, Health and Safety, phone: 800-473-3854				
Revision Date	05-May-20	05-May-2023			
Revision Note	No information available				
Disclaimer	No information available 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.				

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