Material Safety Data Sheet

United States English

Section 1. Chemical product and company identification

Product name EA Reagent; part of 'HitHunter™ cAMP XS+

Screening Assay (40 000 tests)'

Catalogue Number DX90007504SZ

9 0 D X 9 0 0 0 7 5 0 4 S Z

Material uses Industrial applications: Analytical chemistry. Research.

Product type Liquid.

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Supplier GE Healthcare UK Ltd
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Little Chalfont

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<u>In case of emergency</u> US ChemTrec (US) 1-800-424-9300

Canada ChemTrec (US) 1-703-527-3887

2. Hazards identification

Physical stateLiquid.OdorNot available.

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency overview WARNING!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Moderately irritating to the eyes, skin and respiratory system. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Contains material that may cause target organ damage, based on animal data. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects

Eyes Moderately irritating to eyes.

Skin Moderately irritating to the skin.

Inhalation Moderately irritating to the respiratory system.

Ingestion No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects Contains material that may cause target organ damage, based on animal data.

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Target organs Contains material which may cause damage to the following organs: skin, eyes, stomach.

Inhalation Adverse symptoms may include the following:

respiratory tract irritation

coughing coughing Mo specific data.

Skin Adverse symptoms may include the following:

irritation redness



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Eyes Adverse symptoms may include the following:

irritation watering redness

Medical conditions aggravated by over-exposure

Fre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

3. Composition/information on ingredients

Name CAS number % by weight odium chloride 7647-14-5 >1

Section 4. First aid measures

Eye contact In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation

occurs.

Skin contactWash with soap and water. Get medical attention if symptoms appear.InhalationIf inhaled, remove to fresh air. Get medical attention if symptoms appear.

Ingestion Do not ingest. Get medical attention if symptoms appear.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. It may be dangerous to

the person providing aid to give mouth-to-mouth resuscitation.

Section 5. Fire fighting measures

Flammability of the product

 $^{
m kn}$ a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media

Suitable Use an extinguishing agent suitable for the surrounding fire.

Not suitable None known.

Special exposure hazards Fromptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

action shall be taken involving any personal risk or without suitable training.

Special protective equipment for

fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform

the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into

sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and

section 13 for waste disposal.

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or

absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a

licensed waste disposal contractor.

Section 7. Handling and storage

Handling Fut on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be

prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can

be hazardous. Do not reuse container.

Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be

Keep container tightly closed and sealed until ready for use. Containers that have been opened mus carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use

appropriate containment to avoid environmental contamination.



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Section 8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

Recommended monitoring

procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures

Se only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne

contaminants below any recommended or statutory limits.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory

Hands

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times

when handling chemical products if a risk assessment indicates this is necessary.

Eyes Safety eyewear complying with an approved standard should be used when a risk assessment indicates

this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin

Personal protective equipment for the body should be selected based on the task being performed and

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9. Physical and chemical properties

 Physical state
 Liquid.

 Volatility
 0% (v/v)

 VOC
 0 (g/l).

Solubility Easily soluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

Stability The product is stable.

Materials to avoid No specific data.

Hazardous decomposition

products

Inder normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization

Inder normal conditions of storage and use, hazardous polymerization will not occur.

Conditions of reactivity

Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.

Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.

Section 11. Toxicological information

Acute toxicity

Product/ingredient name		Result	Species	Dose	Exposure
sodium chloride		LD50 Dermal	Rabbit	>10 g/kg	-
		LD50 Intraperitoneal	Rat	2600 mg/kg	-
		LD50 Oral	Rat	3000 mg/kg	-
		LDLo Intraperitoneal	Rat	3.72 g/kg	-
		LDLo Subcutaneous	Rat	3500 mg/kg	-
Conclusion/Summary	Not available.				

Section 12. Ecological information

Environmental effects No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name Test Result Species Exposure



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sodium chloride	-	Acute EC50 2122.55 to 2644 mg/L Fresh	Daphnia - Water flea - Ceriodaphnia dubia	48 hours
	-	water Acute EC50 402600 to 469200 ug/L Fresh	- Neonate Daphnia - Water flea - Daphnia magna	48 hours
	-	water Acute LC50 4571	Daphnia - Water flea	48 hours
	-	mg/L Fresh water Acute LC50 6.57 to 6.7 g/L Fresh water	- Daphnia magna Fish - Fathead minnow -	96 hours
	-	Acute LC50 2000 to	Pimephales promelas - 0.217 g Daphnia - Water flea	48 hours
	-	2500 mg/L Fresh water Acute LC50 1661	- Ceriodaphnia dubia Daphnia - Water flea	48 hours
		mg/L Fresh water	- Daphnia magna	
	-	Acute LC50 >10000 ppm Fresh water	Crustaceans - Aquatic sowbug - Asellus communis	48 hours
	-	Acute LC50 >5600 ppm Fresh water	Crustaceans - Aquatic sowbug - Asellus communis	48 hours
	-	Acute LC50 3310000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 1960000 to 2330000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia	48 hours
	-	Acute LC50 1294600 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 5 to 9 cm - 1 to 9 q	96 hours
	-	Acute LC50 1000000 ug/L Fresh water	Fish - Striped bass - Morone saxatilis - LARVAE	96 hours
	-	Acute LC50 5.84 to 6.08 g/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 0.26 g	96 hours
	-	Acute LC50 3.05 to 5.91 g/L Fresh water	Daphnia - Water flea - Daphnia pulex	48 hours
	-	Acute LC50 6094000 to 7824000 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - Egg	96 hours
	-	Acute LC50 >5600000 ug/L Fresh water	Crustaceans -	48 hours
	-	Acute LC50 3318000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 1.47 to 1.57 g/L Fresh water	Daphnia - Water flea - Daphnia pulex	48 hours
	-	Acute LC50 7461 to 9108 mg/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling,	96 hours
	-	Acute LC50 5000000 ug/L Fresh water	Weanling) - 100 days Fish - Striped bass - Morone saxatilis - Fingerling	96 hours
	-	Acute LC50 6094 to 7824 mg/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) - 100 days	96 hours
	-	Acute LC50 16500000 to 33000000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult	48 hours
	-	Acute LC50 >10000000 ug/L	Crustaceans - Aquatic sowbug -	48 hours
	-	Fresh water Acute LC50 6180000 ug/L Fresh water	Asellus communis Fish - Goldfish - Carassius auratus - 6 months - 30 to 38.7	96 hours
	-	Acute LC50 6170000 ug/L Fresh water	mm - 1.53 to 2.83 g Fish - Goldfish - Carassius auratus - 6	96 hours



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months - 30 to 38.7 mm - 1.53 to 2.83 g

Conclusion/Summary

Not available.

Biodegradability

Conclusion/Summary

Not available.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

International transport regulations

Not classified.

NOT CIUSSIIIEU

Section 15. Regulatory information

HCS Classification

Irritating material Target organ effects

U.S. Federal regulations

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: sodium chloride

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: sodium chloride:

Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations

Connecticut Carcinogen Reporting: None of the components are listed.
Connecticut Hazardous Material Survey: None of the components are listed.

Florida substances: None of the components are listed.
Illinois Chemical Safety Act: None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.

Louisiana Reporting: None of the components are listed.

Louisiana Spill: None of the components are listed.

Massachusetts Spill: None of the components are listed.

Massachusetts Substances: None of the components are listed.

Michigan Critical Material: None of the components are listed.

Minnesota Hazardous Substances: None of the components are listed.

New Jersey Hazardous Substances: None of the components are listed.

New Jersey Spill: None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed. New York Acutely Hazardous Substances: None of the components are listed. New York Toxic Chemical Release Reporting: None of the components are listed. Pennsylvania RTK Hazardous Substances: None of the components are listed. Rhode Island Hazardous Substances: None of the components are listed.

United States inventory (TSCA 8b)

EU regulations

Risk phrases

Il components are listed or exempted.

This product is not classified according to EU legislation.



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International regulations

International lists

Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted. Japan inventory (ENCS): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

Korea inventory (KECI): All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

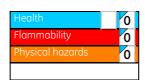
Philippines inventory (PICCS): All components are listed or exempted.

Section 16. Other information

Label requirements

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)





Indicates information that has changed from previously issued version.

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