

1 Identification

GHS Product Identifier

Rat Secreted Protein Assay Kit (for All Analytes)

Contains: CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one, and 2 methyl-4-isothiazolin-3-one (3:1); polystyrene beads

Other means of identification

Product Numbers: 92282-92287

Recommended use of the chemical and restriction on use

SU24 scientific research and development.

This product is manufactured and sold by IntelliCyt Corporation for research use only. The kit and components are not intended for diagnostic or therapeutic use.

Supplier's details

IntelliCyt Corporation
9620 San Mateo Blvd. NE
Albuquerque, NM 87113
USA

Emergency phone number

+1 505-345-9075

2 Hazard(s) identification

Classification of the substance or mixture

Health Hazard

Category	Hazard
3	toxic if inhaled
3	toxic if swallowed
3	mild skin irritation

Environmental Hazard

Category	Hazard
1	very toxic to aquatic life

GHS label elements

Danger



Toxic if swallowed

Toxic in contact with skin

Causes severe skin burns and eye damage

May cause an allergic skin reaction

Causes serious eye damage

Toxic if inhaled

May cause respiratory irritation

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

Keep out of reach of children.

Do not spray on an open flame or other ignition source.

Keep container tightly closed.

Do not breathe dust/fume/gas/mist/vapours/spray.

Do not get in eyes, on skin, or on clothing.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Gently wash with plenty of soap and water.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Call a POISON CENTER/doctor/emergency responder if you feel unwell.

Take off contaminated clothing and wash it before reuse.

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
5-chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	247-500-7	0	
2-methyl-4-isothiazolin-3-one	2682-20-4	220-239-6	0	
Polystyrene Beads			0	

4 First-aid measures

Description of necessary first-aid measures

Eye Exposure: Hold eye open and rinse slowly and gently flush with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Clothing and/or Skin Exposure: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice

If Inhaled: Move person to fresh air. Call a poison control center or doctor for further treatment advice.

If Swallowed: Call a poison control center or physician immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or

doctor. Do not give anything by mouth to an unconscious person.

5 Fire-fighting measures

Suitable extinguishing media

This material will not burn until the water has evaporated. The residue is combustible. Deny unnecessary entry into the area and consider the use of unmanned hose holders. Use water fog, carbon-dioxide or dry-chemical extinguishers, or foam to fight the fire. Contain fire-water run-off if possible to minimize the potential for environmental damage. Follow emergency procedures carefully.

Specific hazards arising from the chemical

Contain fire-water run-off if possible to minimize the potential for environmental damage. Follow emergency procedures carefully.

Special protective actions for fire-fighters

Firefighters should wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing. Immediately withdraw all personnel from the area in case of rising sounds from venting safety device or discolorations of the container.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated. Do not breathe mist/vapors/spray.

Environmental precautions

Do not empty into drains. Avoid release to the environment.

Methods and materials for containment and cleaning up

Dike area to contain spill. Maintain ventilation until all vapors have been eliminated. Take precautions as necessary to prevent contamination of ground and surface waters. If vials are crushed or broken, DO NOT CAUSE MATERIAL TO BECOME AIRBORNE. For small spills, wear gloves and soak up material with absorbent, e.g., paper towels. For large spills, cordon off spill area and minimize the spreading of spilled material. Soak up material with absorbent. Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulations (see Section 13). Decontaminate the area twice.

7 Handling and storage

Precautions for safe handling

Use only in well-ventilated areas. Handle and open container with care. Always close containers tightly after removal of product.

Follow recommendations for handling pharmaceutical agents (i.e., use of engineering controls and/or other personal protective equipment if needed). Avoid contact with skin, eyes and clothing. Provide eye shower and label its location conspicuously. Wash hands and face before breaks and after working with product. When using product, do not eat, drink, smoke, sniff.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container,

protected from direct sunlight. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

8 Exposure controls/personal protection

Control parameters

Facilities storing or using this material should be equipped with eyewash facility and a safety shower. Use process enclosures and local exhaust ventilation.

Appropriate engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

Individual protection measures

Respiratory protection: Respiratory protection is not required.

Hand protection: Handle with gloves. Inspect gloves prior to use.

Gloves: Natural latex, Natural rubber, Nitrile.

Use proper glove removal technique (without touching glove's surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

Skin protection: Choose skin protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. For this product wear lab coat.

Eye/face protection: Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.

Environmental Exposure Controls: Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.

Other protective measures: Wash hands in the event of contact with this product/mixture, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors).

9 Physical and chemical properties

Physical and chemical properties

CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one, and 2 methyl-4-isothiazolin-3-one (3:1)

Physical State	powder
Appearance	white
Odor	none
Odor Threshold	N/A
pH	4.4

Melting Point/Range	Not determined
Boiling Point/Range	229.00 °C Solvent
Flash Point	138.00 °C PENSKEY MARTENS CLOSED CUP
Evaporation Rate	< 1 water
Flammability (solid,gas)	non-flammable
Flammability/explosive limits	
Upper	
Lower	
Vapor Pressure	0.08 hPa solvent-like
Vapor Density	0.6500
Specific Gravity	Not determined
Solubility	Fully Miscible
Partition coefficient; n-octanol/water	log Pow: 0.401 Measured log Pow: -0.486 Measured
Autoignition Temperature	Will not autoignite
Decomposition Temperature	Not determined
Dynamic Viscosity	97.800 mPa.s at 25.00 °C

10 Stability and reactivity

Reactivity

Non-reactive.

Chemical stability

Stable

Possibility of hazardous reactions

Stable under recommended storage conditions. Product will not undergo polymerization.

Conditions to avoid

N/A

Incompatible materials

Avoid contact with the following: Oxidizing agents Amines Reducing agents Mercaptans.

Hazardous decomposition products

Nitrogen oxides (NOx) Sulphur oxides hydrogen chloride

11 Toxicological information

Toxicological (health) effects

See Section 2 for all toxicological effects.

Numerical measures of toxicity (such as acute toxicity estimates)

CMIT/MIT mixture (3:1) - a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one, and 2-methyl-4-isothiazolin-3-one (3:1)

Acute toxicity

Acute oral toxicity LD50, Rat, female, 3,723 mg/kg LD50, Rat, male, 3,600 mg/kg

Acute dermal toxicity LD50, Rabbit, female, > 3,600 mg/kg LD50, Rabbit, male, 3,500 mg/kg

Acute toxicity to fish

Material is very toxic to aquatic organisms (LC50/EC50/IC50 below 1 mg/L in the most sensitive species). LC50, *Oncorhynchus mykiss* (rainbow trout), flow-through test, 96 Hour, 0.19 mg/l, OECD Test Guideline 203 or Equivalent

Acute toxicity to aquatic invertebrates

LC50, *Daphnia magna* (Water flea), flow-through test, 48 Hour, 0.16 mg/l, OECD Test Guideline 202 or Equivalent

Acute toxicity to algae/aquatic plants EC50

Pseudokirchneriella subcapitata (green algae), 72 Hour, 0.027 mg/l, OECD Test Guideline 201 or Equivalent
NOEC, *Skeletonema costatum* (marine diatom), static test, 72 Hour, Growth rate, 0.0014 mg/l

Chronic toxicity to fish NOEC, Rainbow trout (*Oncorhynchus mykiss*), flow-through, 14 d, 0.05 mg/l

Chronic toxicity to aquatic invertebrates NOEC, *Daphnia magna*, flow-through test, 21 d, 0.1 mg/l

Interactive effects

No interactive effects.

Where specific chemical data are not available

N/A

Information on the likely routes of exposure

Absorbed through skin. Eye contact. Inhalation. Ingestion.

Symptoms related to the physical, chemical and toxicological characteristics

Skin, eye irritation.

Delayed and immediate effects and also chronic effects from short and long term exposure

Chronic effects unknown.

12 Ecological information**Toxicity**

Aquatic Acute 1, H400

Persistence and degradability

Biodegradability: Considered to be rapidly degradable. Material is not readily biodegradable.

Biodegradation: < 50 % Exposure time: 10 d

Photodegradation Atmospheric half-life: 0.38 - 1.3 d

Bioaccumulative potential

Partition coefficient: n-octanol/water(log Pow): 0.401 Measured Partition coefficient: noctanol/water(log Pow): -0.486

Measured

Mobility in soil

Potential for mobility in soil is very high (Koc between 0 and 50). Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process. Partition coefficient (Koc): 28 estimated.

13 Disposal considerations

Disposal methods

Dispose of waste according to directive 2008/98/EC, covering waste and dangerous waste. Do not send down the drain or flush down the toilet. All wastes containing the material should be properly labeled. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on- site wastewater treatment facility.

14 Transport information

UN Number

N/A

UN Proper Shipping Name

N/A

Transport hazard class(es)

N/A

Packing group, if applicable

N/A

Environmental hazards

Environmentally hazardous. See sections 11 and 12.

Special precautions for user

No special precautions.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

N/A

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

EU Regulation (EC) No. 1907/2006 (REACH):

Annex XIV - List of substances subject to authorization:

Substances of very high concern: None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market, and use of certain dangerous substances, mixtures, and articles: Not applicable.

The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

Other information

The statements contained herein are offered for informational purposes only and are based upon technical data. IntelliCyt Corporation believes them to be accurate at the date of publication, but does not purport to be all-inclusive. The above-stated product is intended for use only by persons having the necessary technical skills and facilities for handling the product at their discretion and risk. Since conditions and manner of use are outside our control, we (IntelliCyt Corporation) make no warranty of merchantability or any such warranty, express or implied with respect to information and we assume no liability resulting from the above product or its use. Users should perform their own investigations to determine suitability of information and product for their particular purposes.