

SAFETY DATA SHEET

United States

Section 1. Identification Product name

Cy™5 NHS ester, 1 mg

Catalogue Number

PA15101

Chemical name Other means of identification Product type Cy5 (mono-reactive) Not available. Solid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Use in laboratories

Industrial applications: Analytical chemistry. Research.

Supplier

Cytiva Amersham Place Little Chalfont Buckinghamshire HP7 9NA United Kingdom +44 0800 515 313 Cytiva USA 100 Results Way Marlborough, MA 01752 1-800-526-3593

In case of emergency

INFOTRAC - 24 Hour number: 1-800-535-5053 Outside of the United States, call 24 Hour number: 001-352-323-3500 (Call Collect)

Section 2. Hazards identification

OSHA/HCS status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	
Classification of the substance or mixture	ACUTE TOXICITY: ORAL - Category 4 ACUTE TOXICITY: SKIN - Category 4 ACUTE TOXICITY: INHALATION - Category 4 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1	
GHS label elements		
Hazard pictograms		
Signal word	Danger	
Hazard statements	Harmful if swallowed, in contact with skin or if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.	
Precautionary statements		
Prevention	Wear protective gloves. Wear protective clothing. In case of inadequate ventilation wear respiratory protection. Use only outdoors or in a well-ventilated area. Avoid breathing dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.	

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Page: 1/8 Validation date 11 February 2021

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Response	IF INHALED: Remove victim to fresh air an		0
	Call a POISON CENTER or physician if you a POISON CENTER or physician. IF SWAI		
	1 2		1 5 5
	feel unwell. Rinse mouth. IF ON SKIN: Wa CENTER or physician if you feel unwell. W		
	or rash occurs: Get medical attention.		ning before reuse. It skin initation
Storage	Not applicable.		
•	••	بمبر الممالا المائنين ممصول	viewel weating and intermediated
Disposal	Dispose of contents and container in accord regulations.	ance with all local, req	gional, national and international
Hazards not otherwise	None known.		
classified			
Section 3 Composition	information on ingredients		
Section 5. Composition/	information on ingredients		
Substance/mixture	Substance		
Chemical name	Cy5 (mono-reactive)		
Chemical name Other means of identification	Cy5 (mono-reactive) Not available.		
	, ,		
Other means of identification	, ,		

Cy5 (mono-reactive)

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

100

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.	
Skin contact	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	
Most important symptoms/effects, acute and delayed		
Potential acute health effects		
Eye contact	No known significant effects or critical hazards.	
Inhalation	Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.	
Skin contact	Harmful in contact with skin. May cause an allergic skin reaction.	
Ingestion	Harmful if swallowed.	
Over-exposure signs/symptom	S	

Over-exposure signs/symptoms

Eye contact	No specific data.
Inhalation	Adverse symptoms may include the following: wheezing and breathing difficulties asthma



Page: 2/8 Validation date 11 February 2021

Cy™5 NHS ester, 1 mg	PA15101
Skin contact	Adverse symptoms may include the following:
	irritation
	redness
Ingestion	No specific data.
Indication of immediate med	lical attention and special treatment needed, if necessary
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	No specific treatment.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	None known.	
Specific hazards arising from the chemical	No specific fire or explosion hazard.	
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides	
Special protective actions for fire-fighters	Promptly 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, protective equipment and emergency procedures

For non-emergency personnel	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 material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.			
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".			
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 and materials for containment and cleaning up				
Small spill	Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.			
Large spill	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.			

Section 7. Handling and storage

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. 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.
Advice on general occupational hygiene	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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

25190144

Conditions for safe storage,

including any incompatibilities

Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). 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 carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters	
Occupational exposure limits	
Cy5 (mono-reactive)	-
Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
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.
Individual protection measures	
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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	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.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Use a properly fitted, particulate filter 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.

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	Solid.
Color	Blue.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point	Not available.
Boiling point	Not available.
Flash point	[Product does not sustain combustion.]
Burning time	Not available.
Burning rate	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	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.
Lower and upper explosive (flammable) limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility	Easily soluble in the following materials: cold water, hot water and methanol.



Solubility in water	Not available.
Partition coefficient: n-octanol/ water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
SADT	Not available.
Viscosity	Not available.
Flow time (ISO 2431)	Not available.
Molecular weight	580.75
Aerosol product	

Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No specific data.
Incompatible materials	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects Acute toxicity Not available. Irritation/Corrosion Not available. Sensitization Not available. **Mutagenicity** Not available. **Carcinogenicity** Not available. Conclusion/Summary To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated. **Reproductive toxicity** Not available. **Teratogenicity** Not available. Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available. Aspiration hazard Not available. Information on the likely routes Routes of entry anticipated: Oral, Dermal, Inhalation. of exposure Potential acute health effects Eye contact No known significant effects or critical hazards. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Skin contact Harmful in contact with skin. May cause an allergic skin reaction. Ingestion Harmful if swallowed. Symptoms related to the physical, chemical and toxicological characteristics Eye contact No specific data.

Article Number :

25190144

Page: 5/8 Validation date 11 February 2021

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Inhalation Skin contact	Adverse symptoms may include the following: wheezing and breathing difficulties asthma Adverse symptoms may include the following: irritation					
Ingestion	redness No specific data.					
Delayed and immediate effects a	·	om short and lo	ona term exp	osure		
Short term exposure						
Potential immediate effects	Not available.					
Potential delayed effects	Not available.					
Long term exposure						
Potential immediate effects	Not available.					
Potential delayed effects	Not available.					
Potential chronic health effects Not available.						
General	Once sensitized, a sever	e allergic reaction	n may occur v	when subseque	ntly exposed to	very low
Carcinogenicity	levels. No known significant effe	ects or critical haz	zards.			
Mutagenicity	No known significant effe					
Teratogenicity	No known significant effe					
Developmental effects	No known significant effe					
Fertility effects	No known significant effe	ects or critical haz	zards.			
Numerical measures of toxicity						
Acute toxicity estimates		.	_ .			
Product/ingredient name		Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Cy5 (mono-reactive)		500	1100	N/A	N/A	1.5
Section 12. Ecological in	formation					
Toxicity Not available.						
Persistence and degradability Not available. Bioaccumulative potential Not available.						
Mobility in soil Soil/water partition coefficient (K oc)	Not available.					
Other adverse effects	No known significant effects or critical hazards.					
Section 13. Disposal cor	nsiderations					
Disposal methods	The generation of waste product, solutions and an environmental protection requirements. Dispose of contractor. Waste should requirements of all autho or landfill should only be must be disposed of in a have not been cleaned o Avoid dispersal of spilled	y by-products sh and waste dispo f surplus and no d not be dispose rities with jurisdio considered wher safe way. Care r rinsed out. Em	ould at all tim psal legislation n-recyclable p d of untreated ction. Waste n recycling is should be tak pty containers	nes comply with n and any region products via a lid to the sewer un packaging shou not feasible. Th ten when handli s or liners may r	the requirement nal local author censed waste of hless fully comp ld be recycled is material and ng emptied cor etain some pro	nts of ity lisposal bliant with the Incineration its container itainers that duct residues.



Section 14. Transport information

Product is not regulated as dangerous goods for transport.

Section 1	15.	Regulatory	<i>information</i>
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Section 15. Regulatory information					
U.S. Federal regulations	Federal regulations TSCA 8(a) CDR Exempt/Partial exemption: Not determined				
Clean Air Act Section 112(b) Ha (HAPs)	zardous Air Pollutants	Not listed			
Clean Air Act Section 602 Class	I Substances	Not listed			
Clean Air Act Section 602 Class	II Substances	Not listed			
DEA List I Chemicals (Precursor	,	Not listed			
DEA List II Chemicals (Essential	Chemicals)	Not listed			
<u>SARA 302/304</u>					
Composition/information on in	gredients				
No products were found.					
SARA 304 RQ	Not applicable.				
<u>SARA 311/312</u>					
Classification	ACUTE TOXICITY (oral)				
	ACUTE TOXICITY (derm				
	ACUTE TOXICITY (inhal RESPIRATORY SENSIT				
	SKIN SENSITIZATION -	e ,			
Composition/information on in					
Name	%	Classification			
Cy5 (mono-reactive)	100	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4			
		ACUTE TOXICITY (inhalation) - Category 4			
		RESPIRATORY SENSITIZATION - Category 1			
		SKIN SENSITIZATION - Category 1			
State regulations					
Massachusetts	This material is not listed				
New York	This material is not listed				
New Jersey Pennsylvania	This material is not listed This material is not listed				
International regulations					
	List Schodulos I. II. 8. III. C	hamiaala			
<u>Chemical Weapon Convention</u> Not listed.		nemicais			
Not listed.					
Montreal Protocol					
Not listed.					
Stockholm Convention on Pers	sistent Organic Pollutants				
Not listed.					
Rotterdam Convention on Prio	r Informed Consent (PIC)				
Not listed.					
UNECE Aarhus Protocol on PC	<u> DPs and Heavy Metals</u>				
Not listed.					
Inventory list					
United States	Not determined.				
Europe	Not determined.				
Canada inventory	Not determined.				
	Not determined.				



Section 16. Other information

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



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

ACUTE TOXICITY (oral) - Category 4 Expert judgment ACUTE TOXICITY (inhalation) - Category 4 Expert judgment ACUTE TOXICITY (inhalation) - Category 1 Expert judgment RESPIRATORY SENSITIZATION - Category 1 Expert judgment SKIN SENSITIZATION - Category 1 Expert judgment Bate of printing 2/11/2021 Date of previous issue 9/27/2019 Version 8 SdS_author@cytiva.com SdS author@cytiva.com Key to abbreviations ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available. Not available. IN = United Nations Indicates information that has changed from previously issued version.	Classif	ication		Justification
Date of printing 2/11/2021 Date of issue/Date of revision 2/11/2021 Date of previous issue 9/27/2019 Version 8 sds_author@cytiva.com Key to abbreviations ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available UN = United Nations Not available.	ACUTE TOXICITY (dermal) - Cate ACUTE TOXICITY (inhalation) - C RESPIRATORY SENSITIZATION	egory 4 Category 4 - Category 1	Expert judgment Expert judgment Expert judgment	
Date of issue/Date of revision 2/11/2021 Date of previous issue 9/27/2019 Version 8 sds_author@cytiva.com Key to abbreviations ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available UN = United Nations Not available.	<u>History</u>			
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			isly issued version.	

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

