	Safaty Data Shoot	Page 1/3
	Safety Data Sheet according to 1907/2006/EC, Article 31	
Printing date 14.07.2010		Revision: 14.07.2010
1 Identification of substance		
Product details Trade name	3,3'-Diethylthiadicarbocyanine iodide	
Stock number:	43851	
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG Benzstrasse 3	E-mail: gcat@matthey.com
	D-76185 Karlsruhe / Germany	www.alfa-chemcat.com
Informing department: Emergency information:	Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
2 Hazards identification		
Hazard designation:	T+ Very toxic	
Information pertaining to particular dangers for man and environment	R 28 Very toxic if swallowed.	
GHS label elements	R 36/37/38 Irritating to eyes, respiratory system and skin.	
	H300 - Fatal if swallowed.	
	Warning H315 - Causes skin irritation.	
	H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.	
Response:	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minu and easy to do. Continue rinsing.	R or doctor/physician. ites. Remove contact lenses, if present
Storage:	P321 Specific treatment (see on this label). P405 Store locked up.	
Disposal:	P501 Dispose of contents/container in accordance with local/regional/nation	al/international regulations.
3 Composition/information on ingredients	3	
Chemical characterization: Designation: (CAS#)	3,3'-Diethylthiadicarbocyanine iodide (CAS# 514-73-8): 100%	
Identification number(s): EINECS Number:	208-186-7	
4 First aid measures		
General information	Instantly remove any clothing soiled by the product.	
After inhalation	In case of irregular breathing or respiratory arrest provide artificial respiratior Supply fresh air. If required, provide artificial respiration. Keep patient warm.	n. Consult doctor if symptoms persist.
After skin contact	Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.	
After eye contact	Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult do Do not induce vomiting; instantly call for medical help.	ctor.
After swallowing	Do not induce vomiting; instantly call for medical help. Seek immediate medical advice.	
5 Fire fighting measures		
Suitable extinguishing agents Special hazards caused by the material, its	CO2, extinguishing powder or water jet. Fight larger fires with water jet or ald	cohol-resistant foam.
Special hazards caused by the material, its products of combustion or flue gases:	Can be released in case of fire:	
	Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)	
Protective equipment:	Sulphur oxides (SOx) Wear self-contained breathing apparatus.	
	Wear full protective suit.	
6 Accidental release measures	Management Kan and a second state	
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
Measures for environmental protection: Measures for cleaning/collecting:	Do not allow material to be released to the environment without proper govern Dispose of contaminated material as waste according to item 13.	nmental permits.
Additional information:	Ensure adequate ventilation. See Section 7 for information on safe handling See section 8 for information on personal protection equipment.	
	See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.	
7 Handling and storage		
Handling	Keen eesteleens felde eested	
Information for safe handling:	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.	
Information about protection against explosions and fires:	Keep ignition sources away - Do not smoke.	
Storage Requirements to be met by storerooms and		
containers: Information about storage in one common	No special requirements.	
storage facility: Further information about storage	Store away from oxidizing agents.	
conditions:	Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.	ir oppiatente
<b></b>	Store in a locked cabinet or with access restricted to technical experts or the	ar assistants.
8 Exposure controls and personal protect	ion	
Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals a least 100 feet per minute.	nd having an average face velocity of at
Components with critical values that require		
monitoring at the workplace:	Not required.	(Contd. on page 2)
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rade name 3,3'-Diethylthiadicarbocyani	ine iodide	
		(Contd. of page
Additional information:	No data	(**************************************
Personal protective equipment	The second secon	
General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food.	
	Instantly remove any soiled and impregnated garments.	
	Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.	
Breathing equipment:	Avoid contact with the eyes and skin. Use breathing protection with high concentrations.	
Breathing equipment: Protection of hands: Material of elayos	Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition.	f it is the of quality on
Material of gloves	The selection of the suitable gloves does not only depend on the material, but also or varies from manufacturer to manufacturer.	n further marks of quality arr
· · · · · · · · · · · · · · · · · · ·	Impervious gloves	
Penetration time of glove material Eye protection:	Not determined Safety glasses	
• •	Face protection	
Body protection:	Protective work clothing.	
9 Physical and chemical properties: General Information		
Form:	Powder	
Smell:	Not determined	
Change in condition Melting point/Melting range:	248°C (dec)	
Boiling point/Boiling range:	Not determined	
Sublimation temperature / start:	Not determined	
Flash point:	Not applicable	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Danger of explosion:	Product is not explosive.	
Critical values for explosion:	All of the surgering	
Lower: Upper:	Not determined Not determined	
Steam pressure:	Not determined	
Density	Not determined	
10 Stability and reactivity		
Thermal decomposition / conditions to be	· · · · ·	
avoided:	No decomposition if used and stored according to specifications.	
Materials to be avoided: Dangerous reactions:	Oxidizing agents No dangerous reactions known	
Dangerous products of decomposition:	Carbon monoxide and carbon dioxide	
Dangereue preducte er decempeentern		
	Nitrogen oxides (NOx) Sulphur oxides (SOx)	
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11 Toxicological information	Nitrogen oxides (NOx)	
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Trade name 3,3'-Diethylthiadicarbocyani	ne iodide	
		(Contd. of page 2)
Tunnel restriction code	D/E	
Maritime transport IMDG/GGVSea:		
IMDG/GGVSea Class:	6.1	
UN Number: Label	2811 6.1	
Packaging group:	- Ĥ	
Packaging group: Marine pollutant: Correct technical name:	No TOXIC SOLID, ORGANIC, N.O.S. (3,3'-Diethylthiadicarbocyanine iodide)	
Air transport ICAO-TI and IATA-DGR:		
ICAO/IATA Class: UN/ID Number:	6.1 2811	
Label	6.1	
Packaging group: Correct technical name:	TOXIC SOLID, ORGANIC, N.O.S. (3,3'-Diethylthiadicarbocyanine iodide)	
UN "Model Regulation":	UN2811, TOXIC SOLID, ORGANIC, N.O.S., 6.1, II	
15 Regulatory information		
Designation according to EC guidelines:		
Code letter and hazard designation of		
product:	T+ Very toxic	
Risk phrases:	28 Very toxic if swallowed. 36/37/38 Irritating to eyes, respiratory system and skin.	
Safety phrases:	20 When using do not eat or drink.	
	26 In case of contact with eyes, rinse immediately with plenty of water and seek m 28 After contact with skin, wash immediately with plenty of water.	edical advice.
	36/37 Wear suitable protective clothing and gloves. 45 In case of accident or if you feel unwell, seek medical advice immediately (show	w the lebel where peecible)
National regulations	45 In case of accident of it you reel unwell, seek medical advice immediately (show	the label where possible).
Information about limitation of use:	Employment restrictions concerning young persons must be observed	
	Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.	
Water hazard class:	Water hazard class 2 (Self-assessment): hazardous for water.	
16 Other information:		
Employers should use this information only as a s	supplement to other information gathered by them, and should make independent judge	ment of suitability of this
conformance with this Material Safety Data Shee	supplement to other information gathered by them, and should make independent judge health and safety of employees. This information is furnished without warranty, and an a, or in combination with any other product or process, is the responsibility of the user.	y use of the product not in
Department issuing data specification sheet:	Health, Safety and Environmental Department.	
Contact: Abbreviations and acronyms:	Zachariah Holt ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement co	ncerning the International Carriage of
Additiona and delonyma.	Dangerous Goods by Road) RID: Redement international concernant le transport des marchandises dangereuses par chemin de fer (Re	
	Transport of Dangerous Goods by Rail) MDG: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods	- <b>v</b>
	IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization	
	ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)	
	ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)	
		GB