Thermo Fisher SCIENTIFIC

SAFETY DATA SHEET

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ALFAA42465

Graphite conductive adhesive, alcohol based

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

产品说明: 石墨导电粘合剂

Product Description: Graphite conductive adhesive, alcohol based

Cat No.: 42465

Supplier Avocado Research Chemicals Ltd.

(Part of Thermo Fisher Scientific)

Shore Road, Heysham Lancashire, LA3 2XY, United Kingdom

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Emergency Telephone Number For information US call: 001-800-227-6701 / Europe call: +32 14 57 52 11

Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

E-mail address begel.sdsdesk@thermofisher.com

Recommended Use Laboratory chemicals.
Uses advised against No Information available

SECTION 2. HAZARD IDENTIFICATION

Physical State Appearance Odor

Liquid No information available No information available

Emergency Overview

Highly flammable liquid and vapor. Causes mild skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness and dizziness.

Classification of the substance or mixture

Flammable liquids.	Category 2
Skin Corrosion/Irritation	Category 3
Serious Eye Damage/Eye Irritation	Category 1
Specific target organ toxicity - (single exposure)	Category 3

Label Elements



Signal Word Danger

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Hazard Statements

H225 - Highly flammable liquid and vapor

H316 - Causes mild skin irritation

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

Precautionary Statements

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P240 - Ground and bond container and receiving equipment

P242 - Use non-sparking tools

P243 - Take action to prevent static discharges

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Physical and Chemical Hazards

Vapors may cause flash fire or explosion. Highly flammable.

Health Hazards

Causes mild skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness.

Environmental hazards

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. Will likely be mobile in the environment due to its volatility. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

This product does not contain any known or suspected endocrine disruptors.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Isopropyl alcohol	67-63-0	70.00
Graphite	7782-42-5	15.00
n-Butyl alcohol	71-36-3	5.0
Propylene glycol monomethyl ether	107-98-2	5.00
Hexylene glycol	107-41-5	5.00

SECTION 4. FIRST AID MEASURES

General Advice

If symptoms persist, call a physician.

Eve Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation

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Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion

Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects

Difficulty in breathing. Causes eye burns. Causes severe eye damage. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Self-Protection of the First Aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Notes to Physician

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO₂). Powder. Water spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Water mist may be used to cool closed containers.

Extinguishing media which must not be used for safety reasons

No information available.

Specific Hazards Arising from the Chemical

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Refer to protective measures listed in Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Storage

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Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame.

Specific Use(s)

Use in laboratories

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Component	China	Taiwan	Thailand	Hong Kong
Isopropyl alcohol	TWA: 350 mg/m ³	TWA: 400 ppm	TWA: 400 ppm	TWA: 400 ppm
	STEL: 700 mg/m ³	TWA: 983 mg/m ³		TWA: 983 mg/m ³
				STEL: 500 ppm
				STEL: 1230 mg/m ³
Graphite	TWA: 4 mg/m ³	-		-
	TWA: 2 mg/m ³			
n-Butyl alcohol	TWA: 100 mg/m ³	TWA: 100 ppm	TWA: 100 ppm	Ceiling: 50 ppm
		TWA: 303 mg/m ³		Ceiling: 152 mg/m ³
Propylene glycol	-	TWA: 100 ppm		TWA: 100 ppm
monomethyl ether		TWA: 369 mg/m ³		TWA: 369 mg/m ³
				STEL: 150 ppm
				STEL: 553 mg/m ³
Hexylene glycol	Ceiling: 100 mg/m ³	-		-

Component	ACGIH TLV	OSHA PEL	NIOSH	The United Kingdom	European Union
Isopropyl alcohol	TWA: 200 ppm	(Vacated) TWA: 400	IDLH: 2000 ppm	STEL: 500 ppm 15 min	
	STEL: 400 ppm	ppm	TWA: 400 ppm	STEL: 1250 mg/m ³ 15	
		(Vacated) TWA: 980	TWA: 980 mg/m ³	min	
		mg/m ³	STEL: 500 ppm	TWA: 400 ppm 8 hr	
		(Vacated) STEL: 500	STEL: 1225 mg/m ³	TWA: 999 mg/m ³ 8 hr	
		ppm			
		(Vacated) STEL: 1225			
		mg/m ³ TWA: 400 ppm			
		TWA: 980 mg/m ³			
Graphite	TWA: 2 mg/m ³	(Vacated) TWA: 2.5	IDLH: 1250 mg/m ³	STEL: 30 mg/m ³ 15	
Graprine	I WA. 2 mg/m	mg/m ³	TWA: 2.5 mg/m ³	min	
		(Vacated) TWA: 10	1 vv/ t. 2.0 mg/m	STEL: 12 mg/m ³ 15	
		mg/m ³		min	
		(Vacated) TWA: 5		TWA: 10 mg/m ³ 8 hr	
		` mg/m³		TWA: 4 mg/m ³ 8 hr	
		TWA: 15 mg/m ³			
		TWA: 5 mg/m ³			
n-Butyl alcohol	TWA: 20 ppm	Skin	IDLH: 1400 ppm	50ppm STEL;	
		(Vacated) Ceiling: 50	Ceiling: 50 ppm	154mg/m ³ STEL	
		ppm	Ceiling: 150 mg/m ³		
		(Vacated) Ceiling: 150			
		mg/m ³ TWA: 100 ppm			
		TWA: 100 ppin TWA: 300 mg/m ³			
Propylene glycol	TWA: 50 ppm	(Vacated) TWA: 100	TWA: 100 ppm	STEL: 150 ppm 15 min	TWA: 100 ppm (8h)
monomethyl ether	STEL: 100 ppm	ppm	TWA: 360 mg/m ³	STEL: 560 mg/m ³ 15	TWA: 375 mg/m ³ (8h)
Inchemotry cure.	0122. 100 pp	(Vacated) TWA: 360	STEL: 150 ppm	min	STEL: 150 ppm
		mg/m ³	STEL: 540 mg/m ³	TWA: 100 ppm 8 hr	(15min)
		(Vacated) STEL: 150	· ·	TWA: 375 mg/m ³ 8 hr	STEL: 568 mg/m ³
		ppm		Skin	(15min)
		(Vacated) STEL: 540			Skin
		mg/m³			
Hexylene glycol	TWA: 25 ppm	(Vacated) Ceiling: 25	Ceiling: 25 ppm	STEL: 25 ppm 15 min	
	STEL: 50 ppm	ppm	Ceiling: 125 mg/m ³	STEL: 123 mg/m ³ 15	
	STEL: 10 mg/m ³	(Vacated) Ceiling: 125		min	
		mg/m³		TWA: 25 ppm 8 hr	
				TWA: 123 mg/m ³ 8 hr	

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

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NIOSH: NIOSH - National Institute for Occupational Safety and Health

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. MDHS70 General methods for sampling airborne gases and vapours MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

Exposure Controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

Personal protective equipment

Eye Protection Goggles (European standard - EN 166)

Hand Protection Protective gloves

Г	Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
	Nitrile rubber	See manufacturers	-	EN 374	(minimum requirement)
	Neoprene	recommendations			
	Natural rubber				
	PVC				

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection	Long sleeved clothing
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly
Large scale/emergency use	Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Organic gases and vapours filter Type A Brown conforming to EN14387
Small scale/Laboratory use	Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141 When RPE is used a face piece Fit Test should be conducted
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Physical State

Liquid

Environmental exposure controls

No information available.

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Odor No information available
Odor Threshold No data available

pH No information available
Melting Point/Range No data available
Softening Point No data available
Boiling Point/Range 82 °C / 179.6 °F

Flash Point 11 °C / 51.8 °F Method - No information available

Evaporation RateNo data availableFlammability (solid,gas)Not applicableLiquid

Explosion Limits

No data available

Vapor Pressure 23 hPa @ 20 °C

Vapor DensityNo data available(Air = 1.0)Specific Gravity / Density0.9 g/cm3@ 20 °CBulk DensityNot applicableLiquidWater SolubilityImmiscible

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Componentlog PowIsopropyl alcohol0.05n-Butyl alcohol1Propylene glycol monomethyl ether1Hexylene glycol0.14

Autoignition Temperature

Decomposition Temperature

Viscosity

No data available
No data available
No data available

Explosive Properties Vapors may form explosive mixtures with air

Oxidizing Properties No information available

SECTION 10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Hazardous ReactionsNone under normal processing.
Hazardous Polymerization
No information available.

nazardous Polymenzation No information available.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition.

Materials to avoid Oxidizing agent.

Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11. TOXICOLOGICAL INFORMATION

Product Information

(a) acute toxicity;

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl alcohol	5045 mg/kg (Rat)	12800 mg/kg (Rat)	72.6 mg/L (Rat) 4 h
	3600 mg/kg (Mouse)		
Graphite			LC50 > 2000 mg/m ³ (Rat) 4 h
n-Butyl alcohol	LD50 = 700 mg/kg (Rat)	LD50 = 3402 mg/kg (Rabbit)	LC50 > 8000 ppm (Rat) 4 h
, i			

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Propylene glycol monomethyl ether	LD50 = 5000 mg/kg (Rat)	LD50 = 13 g/kg (Rabbit)	LC50 > 7559 ppm (Rat) 6 h
Hexylene glycol	LD50 = 3700 mg/kg (Rat)	LD50 = 12300 mg/kg (Rabbit)	LC50 > 310 mg/m ³ (Rat) 1 h

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

(h) STOT-single exposure; Category 3

Results / Target organs Central nervous system (CNS)

Respiratory system

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Symptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

delayed tiredness, nausea and vomiting

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
	flow-through	h 9714 mg/L EC50 = 24 h	EC50: > 1000 mg/L, 72h (Desmodesmus subspicatus) EC50: > 1000 mg/L, 96h (Desmodesmus subspicatus)	= 35390 mg/L EC50 Photobacterium phosphoreum 5 min
Graphite	LC50: > 100 mg/L, 96h semi-static (Danio rerio)			
n-Butyl alcohol	LC50: 1376 mg/L, 96h (Pimephales promelas) OECD Guideline 203:	(Daphnia magna) OECD	EC50: 225 mg/L, 96h (Pseudokirchneriella subcapitata) OECD	EC50 = 2041.4 mg/L 5 min EC50 = 2186 mg/L 30

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	100000 - 500000 μg/L,	EC50: 1897 - 2072	Guideline 201	min
	96h static (Lepomis	mg/L, 48h Static		EC50 = 3980 mg/L 24 h
	macrochirus)	(Daphnia magna)	(Desmodesmus	EC50 = 4400 mg/L 17 h
		EC50: = 1983 mg/L, 48h		
	flow-through	(Daphnia magna)	EC50: > 500 mg/L, 96h	
	(Pimephales promelas)		(Desmodesmus	
	LC50: = 1910000 μg/L,		subspicatus)	
	96h static (Pimephales			
	promelas)			
	LC50: 1730 - 1910			
	mg/L, 96h static			
	(Pimephales promelas)			
Propylene glycol monomethyl ether	LC50: = 20.8 g/L, 96h	EC50: = 23300 mg/L,		
, , , , ,	static (Pimephales	48h (Daphnia magna)		
	promelas)	(1, 1 1 3 1,		
	, ,			
Hexylene glycol	LC50: 10500 - 11000	EC50: 2700 - 3700		EC50 = 3038 mg/L 5
, , ,	mg/L, 96h flow-through	mg/L, 48h (Daphnia		min S
	(Pimephales promelas)	magna)		
	LC50: = 10000 mg/L,	lg,		
	96h static (Lepomis			
	macrochirus)			
	LC50: = 8690 mg/L, 96h			
	flow-through			
	(Pimephales promelas)			
	LC50: = 10700 mg/L,			
	96h static (Pimephales			
	promelas)			
				I

Persistence and Degradability

Persistence Persistence is unlikely, based on information available.

Component	Degradability
n-Butyl alcohol	70 %
71-36-3 (5.0)	

Bioaccumulative Potential

Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
Isopropyl alcohol	0.05	No data available
n-Butyl alcohol	1	0.64 dimensionless
Propylene glycol monomethyl ether	1	<2 dimensionless
Hexylene glycol	0.14	No data available

Mobility in soil

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Will likely be mobile in the environment due to its volatility. Disperses rapidly in air

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected endocrine disruptors. This product does not contain any known or suspected substance

This product does not contain any known or suspected substance

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from Residues/Unused Products

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging

Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.

Other Information

Waste codes should be assigned by the user based on the application for which the product was used. Do not flush to sewer. Can be landfilled or incinerated, when in compliance with

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local regulations. Do not empty into drains.

SECTION 14. TRANSPORT INFORMATION

Road and Rail Transport

UN-No UN1133
Proper Shipping Name ADHESIVES

Hazard Class 3
Packing Group ||

IMDG/IMO

UN-No UN1133
Proper Shipping Name UN1133
ADHESIVES

Hazard Class 3 Packing Group II

IATA

UN-No UN1133
Proper Shipping Name ADHESIVES

Hazard Class 3 Packing Group II

Special Precautions for User No special precautions required

SECTION 15. REGULATORY INFORMATION

International Inventories

X = listed, China (IECSC), Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), Korea (KECL).

Component	The Inventory of Hazardous Chemicals (2015 Edition)		TCSI	IECSC	EINECS	TSCA	DSL	PICCS	ENCS	ISHL	AICS	KECL
Isopropyl alcohol	Х	X	X	Х	200-661-7	Х	Х	Х	Х	Χ	Χ	KE-29363
Graphite	-	-	X	Х	231-955-3	Х	Х	Х	-		Χ	X
n-Butyl alcohol	Х	X	X	Х	200-751-6	Х	Х	Х	Х	Х	Χ	KE-03867
Propylene glycol monomethyl ether	-	Х	X	Х	203-539-1	Х	Х	Х	Х	X	Х	KE-23379
Hexylene glycol	-	-	Х	Х	203-489-0	Х	Х	Х	Х	Х	Х	KE-24702

National Regulations

SECTION 16. OTHER INFORMATION

Prepared By Health, Safety and Environmental Department

Revision Date 08-May-2024

Revision Summary New emergency telephone response service provider.

Training Advice

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Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Legend

CAS - Chemical Abstracts Service

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

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

Substances List

ENCS - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC - Predicted No Effect Concentration

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative

ICAO/IATA - International Civil Aviation Organization/International Air **Transport Association**

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

MARPOL - International Convention for the Prevention of Pollution from

Ships

ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound)

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Physical hazards On basis of test data **Health Hazards** Calculation method **Environmental hazards** Calculation method

Disclaimer

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

End of Safety Data Sheet