<u>Doc. No:</u> **MSDS- DD074** 

## Hy-Labs Cat. No:

#### **DD074**

## MSDS FORMAT

## MATERIAL SAFETY DATA SHEET



1- Product and Company Identification				
Product Name	BRILLIANT GREEN AGAR(MODIFIED) /XLD AGAR			
Reference number	DD074			
Manufacturer	Hy-Laboratories Ltd.			
	Park Tamar, Rehovot, 76326, Israel			
	Tel: 972-8-9366475			
	Fax: 972-8-9366474			

The MSDS below refers to both parts of the plate: DD074

#### BRILLIANT GREEN AGAR MODIFIED and XLD MEDIUM

In the sections where there is a different in the specific reference to each ingredient, the name of the ingredient is listed before the specific reference.

#### 2- Classification of the substance or mixture

#### CLP Classification - Regulation (EC) No 1272/2008

#### Physical hazards

Based on available data, the classification criteria are not met

#### Health hazards

Based on available data, the classification criteria are not met

#### **Environmental hazards**

Based on available data, the classification criteria are not met

#### 3- Composition/information on ingredients

#### BRILLIANT GREEN AGAR MODIFIED:

Mixtures:

Component	CAS No	EC No	Weight	CLP Classification - Regulation
			%	(EC) No1272/2008
Sucrose	57-50-1	EEC No. 200-334-9	21.95	-

Full text of Hazard Statements: see section 16

#### XLD MEDIUM

Mixtures:

Component	CAS No	EC No	Weight %	CLP Classification - Regulation (EC) No1272/2008
Sucrose	57-50-1	EEC No. 200-334-9	11.1	-
Cholan-24-oic acid, 3,7,12-trihydroxy,-monosodium salt, (3.alpha.,5.beta.,7.alpha.,12.alpha.)-	361-09-1	EEC No. 206-643-5	2.8	Aquatic Chronic 3 (H412)
Cholan-24-oic acid, 3,12-dihydroxy,-monosodium salt, (.3alpha.,5.beta.,12.alpha.)-	302-95-4	EEC No. 206-132-7	2.8	Acute Tox. 4 (H302) Aquatic Chronic 3 (H412)
Ferric ammonium citrate	1185-57-5	EEC No. 214-686-6	1.4	-

Full text of Hazard Statements: see section 16

#### **4- First Aid Measures**

#### 4.1 .Description of first aid measures

#### **Eve Contact**

Rinse thoroughly with plenty of water, also under the eyelids. Get medical attentionif irritation persists.

#### **Skin Contact**

Wash with plenty of soap and water. Get medical attention if irritation develops and persists.

#### Ingestion

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

#### Inhalation

Remove to fresh air. Get medical attention if symptoms occur.

#### **Self-Protection of the First Aider**

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

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## 4.2. Most important symptoms and effects, both acute and delayed

No information available

### 4.3 .Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

#### **5- Fire Fighting Measures**

#### 5.1 .Extinguishing media

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, carbondioxide (CO2), dry chemical, alcohol-resistant foam.

#### Extinguishing media which must not be used for safety reasons

Use extinguishing method compatible with surroundings.

#### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

#### **Hazardous Combustion Products**

None under normal use conditions.

#### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) andfull protective gear.

#### 6- ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid contact with skin and eyes. Ensure adequate ventilation.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

#### 6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal.

#### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13

#### 7- Handling and Storage

#### 7.1 .Precautions for safe handling

Do not breathe dust. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Donot eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, beforere-use. Wash hands before breaks and after work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Technical Rules for Hazardous Substances (TRGS) 510

Storage Class (LGK) (Germany)

Storage Class/LGK 13

#### 7.3 .Specific end use(s)

Use in laboratories

#### 8- Exposure Controls, Personal Protection

#### 8.1 .Control parameters

**Exposure limits** 

#### **BRILLIANT GREEN AGAR MODIFIED**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by theregionspecific regulatory bodies

#### **Component:**

#### Sucrose

The United Kingdom - STEL: 20 mg/m<sup>3</sup> 15 min, TWA: 10 mg/m<sup>3</sup> 8 hr

France - TWA / VME: 10 mg/m3 (8 heures).

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Belgium – TWA: 10 mg/m<sup>3</sup> 8 uren

Spain - TWA / VLA-ED: 10mg/m<sup>3</sup> (8 horas)

Portugal - TWA: 10 mg/m<sup>3</sup> 8 horas Bulgaria - TWA: 10.0 mg/m<sup>3</sup>

Croatia - TWA-GVI: 10 mg/m³ 8 satima. STEL-KGVI: 20 mg/m³ 15 minutama

Ireland - TWA: 10 mg/m<sup>3</sup> 8 hr. STEL: 20 mg/m<sup>3</sup> 15 min

Estonia - TWA: 10 mg/m<sup>3</sup> 8 tundides

Latvia - TWA: 5 mg/m<sup>3</sup>

Lithuania - TWA: 10 mg/m³ IPRD

#### XLD MEDIUM

List source(s): CH - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerteamarbeitplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

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Component	Country	Exposure limits	
Sucrose	The United Kingdom	STEL: 20 mg/m <sup>3</sup> 15 min TWA: 10 mg/m <sup>3</sup> 8 hr	
	France	TWA / VME: 10 mg/m <sup>3</sup> (8 heures).	
	Belgium	TWA: 10 mg/m <sup>3</sup> 8 uren	
	Spain	TWA / VLA-ED: 10mg/m <sup>3</sup> (8 horas)	
	Portugal	TWA: 10 mg/m <sup>3</sup> 8 horas	
	Bulgaria	TWA: 10.0 mg/m <sup>3</sup>	
	Croatia	TWA-GVI: 10 mg/m <sup>3</sup> 8 satima.	
		STEL-KGVI: 20 mg/m <sup>3</sup> 15 minutama.	
	Ireland	TWA: 10 mg/m <sup>3</sup> 8 hr.	
		STEL: 20 mg/m <sup>3</sup> 15 min	
	Estonia	TWA: 10 mg/m <sup>3</sup> 8 tundides.	
	Latvia	TWA: 5 mg/m <sup>3</sup>	
	Lithuania	TWA: 10 mg/m <sup>3</sup> IPRD	
Ferric ammonium	The United Kingdom	STEL: 2 mg/m <sup>3</sup> 15 min	
citrate		TWA: 1 mg/m <sup>3</sup> 8 hr	
	Belgium	TWA 1 mg(Fe)/m $^3$	
	Spain	TWA / VLA-ED: 1 mg/m <sup>3</sup> (8 horas)	
	Portugal	TWA: 1 mg/m <sup>3</sup> 8 horas	
	Austria	TWA 0.1 mg(Fe)/m <sup>3</sup>	
	Switzerland	TWA: 1 mg/m <sup>3</sup> 8 Stunden	

#### **Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specificregulatory bodies

#### **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.

#### Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

No information available

#### XLD MEDIUM

#### See table for values

Component	Acute effects local (Dermal)	Acute effects systemic (Dermal)	Chronic effects local (Dermal)	Chronic effects systemic (Dermal)
Ferric ammonium citrate 1185-57-5 (1.4)				DNEL 2.78mg/kgbw/day

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chroniceffectssystemic(In halation)
Ferric ammonium citrate 1185-57-5 ( 1.4 )				DNEL =9.8mg/m <sup>3</sup>

#### **Predicted No Effect Concentration (PNEC)**

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#### BRILLIANT GREEN AGAR MODIFIED

No information available.

#### **XLD MEDIUM**

See table for values

Component	Fresh water	Fresh water	Water Intermittent	Microorganisms in	Soil (Agriculture)
		sediment		sewage treatment	
Ferric ammonium citrate	PNEC =	PNEC=	PNEC = 1mg/L	PNEC = 59.1 mg/L	PNEC=37.5µg/kg
1185-57-5 ( 1.4 )	0.1mg/L	0.481mg/kg			soil dw
		sediment dw			

Component	Marine	Marine water	Marine water	Food chain	Air
	water	sediment	Intermittent		
Ferric ammonium citrate	PNEC =	PNEC =	PNEC = 0.1 mg/L		
1185-57-5 ( 1.4 )	10μg/L	48.1µg/kg			
		sediment dw			

#### 8.2 .Exposure controls

#### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of processorequipment 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 Wear safety glasses with side shields (or goggles) (European standard - EN166)

**Hand Protection** Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Disposable gloves	See manufacturers recommendations	-	EN 374	(minimum requirement)

#### Skin and body protection Long sleeved clothing.

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) 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. gloves with care avoiding skin contamination.

#### **Respiratory Protection**

When workers are facing concentrations above the exposure limit they must useappropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

### Large scale/emergency use

In case of insufficient ventilation, wear suitable respiratory equipment

#### Small scale/Laboratory use

Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposurelimits are exceeded or if irritation or other symptoms are experienced. When RPE is used a face piece Fit Test should be conducted

#### **Environmental exposure controls**

No special environmental precautions required. Avoid dust formation.

#### 9- Physical and Chemical Properties

#### 9.1 .Information on basic physical and chemical properties

#### **BRILLIANT GREEN AGAR MODIFIED**

Physical State Powder
Appearance Light green

Odor No information available
Odor Threshold No data available

Melting Point/Range No data available
Softening Point No data available

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Boiling Point/Range Not applicable
Flammability (liquid) No data available
Flammability (solid,gas) No information available

Explosion Limits No data available

Flash Point Not applicable Method - No information available

Autoignition Temperature

Decomposition Temperature

pH

Viscosity

No data available

No data available

No data available

No data available

Water Solubility No information available Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow

Sucrose -3.67

Vapor Pressure No data available
Density / Specific Gravity No data available
Bulk Density No data available

Vapor Density No data available (Air = 1.0)

Particle characteristics No data available

XLD MEDIUM

Physical State Powder Appearance Pink

Odor No information available

Odor Threshold
Melting Point/Range
No data available

Flammability (solid,gas) No information available

Explosion Limits No data available

Flash Point Not applicable Method - No information available

Autoignition Temperature No data available Decomposition Temperature No data available

pH 7.2 - 7.6

Viscosity No data available

Water Solubility No information available Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow Sucrose -3.67

Vapor Pressure

Density / Specific Gravity

Bulk Density

No data available

No data available

No data available

Vapor Density No data available (Air = 1.0)

Particle characteristics No data available

## 10- Stability and Reactivity

#### 10.1. Reactivity

None known, based on information available

#### 10.2 .Chemical stability

Stable under recommended storage conditions. Hygroscopic.

#### 10.3. Possibility of hazardous reactions

#### BRILLIANT GREEN AGAR MODIFIED

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

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#### XLD MEDIUM

Hazardous Polymerization No information available. Hazardous Reactions No information available.

#### 10.4. Conditions to avoid

#### **BRILLIANT GREEN AGAR MODIFIED**

Heat, flames and sparks. Protect from direct sunlight.

#### **XLD MEDIUM**

Protect from direct sunlight.

#### 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

None under normal use conditions.

#### 11- Toxicological Information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Product Information** 

Product does not present an acute toxicity hazard based on known or supplied information(a)

#### Acute toxicity;

Oral Based on ATE data, the classification criteria are not met

Dermal No data available Inhalation No data available

#### BRILLIANT GREEN AGAR MODIFIED

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sucrose	LD50 = 29700  mg/kg (Rat)	-	-

#### XLD MEDIUM

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sucrose	LD50 = 29700  mg/kg (Rat)	-	-
Cholan-24-oic acid,	LD50 = 1370  mg/kg (Rat)		
3,12-dihydroxy-,			
monosodium salt,			
(3.alpha.,5.beta.,12.alph			
a.)-			

(b) skin corrosion/irritation;(c) serious eye damage/irritation;No data available

(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;No data available(i) STOT-repeated exposure;No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Symptoms / effects, both acute and delayed No information available.

#### 11.2. Information on other hazards

**Endocrine Disrupting Properties** 

Assess endocrine disrupting properties for human health. This product does not containanyknown or suspected endocrine disruptors.

### 12- Ecological Information

#### 12.1. Toxicity

Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that arenot degradable in waste water treatment plants

#### 12.2. Persistence and degradability

Readily biodegradable

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#### 12.3. Bioaccumulative potential

No information available

Component	log Pow	Bioconcentration factor (BCF)
Sucrose	-3.67	No data available

#### 12.4. Mobility in soil

No information available

#### 12.5. Results of PBT and vPvB assessment

No data available for assessment

#### 12.6. Endocrine disrupting properties

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

#### 12.7. Other adverse effects

Persistent Organic Pollutant

This product does not contain any known or suspected substance

Ozone Depletion Potential

This product does not contain any known or suspected substance

#### 13- Disposal Considerations

#### 13.1 .Waste treatment methods

Waste from Residues/Unused Products

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Consult local, regional, and national hazardous waste regulationstoensure complete and accurate classification.

Contaminated Packaging Empty remaining contents.

Dispose of in accordance with local regulations. Donot re-useempty containers.

European Waste Catalogue (EWC) According to the European Waste Catalog,

Waste Codes are not product specific, but application specific.

Other Information

Waste codes should be assigned by the user based on the application for whichtheproductwas used.

#### 14- Transport Information

#### **IMDG/IMO - Not regulated**

- 14.1 .UN number
- 14.2 .UN proper shipping name
- 14.3 .Transport hazard class(es)
- 14.4 .Packing group

#### ADR - Not regulated

- 14.1 .UN number
- 14.2 .UN proper shipping name
- 14.3 .Transport hazard class(es)
- 14.4 .Packing group

#### IATA - Not regulated

- 14.1 .UN number
- 14.2 .UN proper shipping name
- 14.3 .Transport hazard class(es)
- 14.4. Packing group

#### 14.5 . Environmental hazards - No hazards identified

#### 14.6 . Special precautions for user - No special precautions required

#### 14.7 .Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods

### 15- Regulatory Information

## 15.1 .Safety, health and environmental regulations/legislation specific for the substance or mixture International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia(AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

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Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Sucrose	57-50-1	200-334-9	-	-	X	X	KE-17258	-	X

Component	CAS No	TSCA	TSCA Inventory notification - Active- Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Sucrose	57-50-1	X	ACTIVE	X	-	X	X	X

Legend: X - Listed '-' - Not Listed KECL - NIER number or KE number (<a href="http://ncis.nier.go.kr/en/main.do">http://ncis.nier.go.kr/en/main.do</a>)

#### **XLD MEDIUM**

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Sucrose	57-50-1	200-334-9	-	-	X	X	KE-17258	-	X
Cholan-24- oic acid, 3,7,12- trihydroxy-, monosodium salt, (3.alpha.,5.bet a.,7.alpha.,12. alpha.)-	361-09-1	206-643-5	-	-	Х	X	KE-34293	-	Х
Cholan-24- oic acid, 3,12- dihydroxy-, monosodium salt, (3.alpha.,5.bet a.,12.alpha.)-	302-95-4	206-132-7	-	-	X	X	KE-10812	-	Х
Ferric ammonium citrate	1185-57-5	214-686-6	-	-	X	X	KE-01694	-	-

Legend: X - Listed '-' - Not Listed KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### Authorisation/Restrictions according to EU REACH

#### BRILLIANT GREEN AGAR MODIFIED

•	MEELINI GREEN HOME MODIFIED								
	Component	CAS No	Seveso III Directive	Seveso III Directive					
	_		(2012/18/EC) - Qualifying	(2012/18/EC) -Qualifying					
			Quantities for Major	Quantities for Safety Report					
			Accident Notification	Requirements					
	Sucrose	57-50-1	Not applicable	Not applicable					

#### XLD MEDIUM

DD TITLDETOTIC			
Component	CAS No	Seveso III Directive	Seveso III Directive
		(2012/18/EC) - Qualifying	(2012/18/EC) -Qualifying
		Quantities for Major	Quantities for Safety Report
		Accident Notification	Requirements
Sucrose	57-50-1	Not applicable	Not applicable
Cholan-24-oic	361-09-1	Not applicable	Not applicable
acid, 3,7,12-			
trihydroxy-,			
monosodium salt,			
(3.alpha.,5.beta.,7.			
alpha.,12.alph a.)-			
Cholan-24-oic	302-95-4	Not applicable	Not applicable
acid, 3,12-			
dihydroxy-,			
monosodium salt,			
(3.alpha.,5.beta.,1			
2.alpha.)-			
Ferric ammonium	1185-57-5	Not applicable	Not applicable
citrate		·	

## Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related

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to chemical agents at work Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### **National Regulations**

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment WGK Classification Water endangering class = 2 (self classification)

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
Sucrose	WGK1	

Swiss Regulations Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

#### 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

#### 16- Other Information

Full text of H-Statements referred to under sections 2 and 3

#### BRILLIANT GREEN AGAR MODIFIED

Not applicable

#### XLD MEDIUM

H302 - Harmful if swallowed

H412 - Harmful to aquatic life with long lasting effects

#### Legend

CAS - Chemical Abstracts Service

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

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-DomesticSubstances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

TWA - Time Weighted Average

ACGIH - American Conference of Governmental Industrial Hygienists

IARC - International Agency for Research on Cancer

DNEL - Derived No Effect Level Predicted No Effect Concentration (PNEC)

RPE - Respiratory Protective Equipment LD50 - Lethal Dose 50% LC50 - Lethal Concentration 50%

EC50 - Effective Concentration 50%

NOEC - No Observed Effect Concentration

POW - Partition coefficient Octanol:Water

PBT - Persistent, Bioaccumulative, Toxic vPvB - very Persistent, very Bioaccumulative

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

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

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

MARPOL - International Convention for the Prevention of Pollution from Ships

OECD - Organisation for Economic Co-operation and Development

ATE - Acute Toxicity Estimate

BCF - Bioconcentration factor

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

#### **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective

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Equipment (PPE)andhygiene

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No1907/2006

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.