

Creation Date Oct-2013 Revision Date Oct-2018 Revision Number 2

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

1.1. Product identification

Product Description: <u>Nitric acid SG 1.42 (70%)</u>

Product Grade: SQ, ER

Cat No.: Q29195, Q29197, Q29198, Q29757, Q29755, Q29755Z, Q29195FX

CAS-No 7697-37-2 **EC-No**. 231-714-2

Reach Registration Number 01-2119487297-23

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

Recommended Use Laboratory chemicals.

Sector of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

Product category PC21 - Laboratory chemicals

Process categories PROC15 - Use as a laboratory reagent

Environmental release category ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)

Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Company Thermo Fisher Scientific India Pvt. Ltd

403-404, B-wing, Delphi, Hiranandani Business Park,

Powai, Mumbai 400076, INDIA.

E-mail address <u>laboratorysolutions@thermofisher.com</u>

1.4. Emergency telephone number

India Toll Free: 18 00 22 22 30 Chemtrec US: (800)424-9300 Chemtrec EU: 001(202)483-7616

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Physical hazards

Oxidizing liquids Category 3 (H272)
Substances/mixtures corrosive to metal Category 1 (H290)

Health hazards

Skin Corrosion/irritation Category 1 A (H314)
Serious Eye Damage/Eye Irritation Category 1 (H318)

Environmental hazards

Based on available data, the classification criteria are not met

2.2. Label elements

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Signal Word Danger

Hazard Statements

H272 - May intensify fire; oxidizer

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

EUH071 - Corrosive to the respiratory tract

Precautionary Statements

P221 - Take any precaution to avoid mixing with combustibles

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

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

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

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/ physician

2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Component	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/2008
Nitric acid	7697-37-2	231-714-2	65-70	Ox. Liq. 2 (H272) Met. Corr. 1 (H290) Skin Corr. 1A (H314) Eye Dam. 1 (H318) (EUH071)
Water	7732-18-5	231-791-2	30-35	-

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Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Remove and wash

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contaminated clothing before re-use. Call a physician immediately.

Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Clean

mouth with water. Call a physician immediately.

Inhalation If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or

inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove from exposure, lie

down. Call a physician immediately.

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

Causes burns by all exposure routes. . Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated

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

Notes to Physician Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat

symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

CO₂, dry chemical, dry sand, alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.).

Hazardous Combustion Products

Nitrogen oxides (NOx), Thermal decomposition can lead to release of irritating gases and vapors.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment.

Refer to protective measures listed in Sections 7 and 8

6.2. Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system. See Section 12 for

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additional ecological information.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. 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.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Do not ingest. Use only under a chemical fume hood. Keep away from clothing and other combustible materials.

Hygiene Measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes and clothing. For environmental protection remove and wash all contaminated protective equipment before re-use. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Corrosives area. Do not store in metal containers. Keep in properly labeled containers.

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **EU** - Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. **UK** - EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated by September 2006 official press release and October 2007 Supplement. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority.

Component	European Union	The United Kingdom	France	Belgium	Spain
Nitric acid	STEL: 1 ppm 15 min	STEL: 1 ppm 15 min	STEL / VLCT: 1 ppm.	STEL: 1 ppm 15	STEL / VLA-EC: 1 ppm
	STEL: 2.6 mg/m ³ 15 min	STEL: 2.6 mg/m ³ 15 min	indicative limit	minuten	(15 minutos). STEL /
		_	STEL / VLCT: 2.6	STEL: 2.6 mg/m ³ 15	VLA-EC: 2.6 mg/m ³
			mg/m³. indicative limit	minuten	(15 minutos).

Component	Italy	Germany	Portugal	The Netherlands	Finland
Nitric acid	STEL: 1 ppm 15 minuti. Breve termine STEL: 2.6 mg/m³ 15 minuti. Breve termine	TWA: 1 ppm (8 Stunden). AGW - exposure factor 1 TWA: 2.6 mg/m³ (8 Stunden). AGW -	STEL: 4 ppm 15 minutos TWA: 2 ppm 8 horas	STEL: 1.3 mg/m³ 15 minuten	TWA: 0.5 ppm 8 tunteina TWA: 1.3 mg/m³ 8 tunteina STEL: 1 ppm 15 minuutteina STEL: 2.6 mg/m³ 15 minuutteina

Con	nponent	Austria	Denmark	Switzerland	Poland	Norway
Niti	ric acid	MAK-KZW: 1 ppm 15	STEL: 1 ppm 15	STEL: 2 ppm 15	STEL: 2.6 mg/m ³ 15	TWA: 2 ppm 8 timer

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	Minuten MAK-KZW: 2.6 mg/m ³ 15 Minuten	minutter STEL: 2.6 mg/m³ 15 minutter	Minuten STEL: 5 mg/m³ 15 Minuten TWA: 2 ppm 8 Stunden TWA: 5 mg/m³ 8 Stunden	minutach TWA: 1.4 mg/m³ 8 godzinach	TWA: 5 mg/m³ 8 timer STEL: 2 ppm 15 minutter. STEL: 5 mg/m³ 15 minutter.
Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
Nitric acid	STEL : 1 ppm STEL : 2.6 mg/m ³	STEL-KGVI: 1 ppm 15 minutama. STEL-KGVI: 2.6 mg/m³ 15 minutama.	STEL: 2.6 mg/m ³ 15 min	STEL: 1 ppm STEL: 2.6 mg/m ³	TWA: 1 mg/m³ 8 hodinách. Ceiling: 2.5 mg/m³
			1		

Component	Estonia	Gibraltar	Greece	Hungary	Iceland
Nitric acid	STEL: 1 ppm 15 minutites. STEL: 2.6 mg/m³ 15 minutites.	STEL: 1 ppm 15 min STEL: 2.6 mg/m³ 15 min	STEL: 1 ppm STEL: 2.6 mg/m³	STEL: 2.6 mg/m³ 15 percekben. CK	STEL: 1 ppm STEL: 2.6 mg/m³

Component	Latvia	Lithuania	Luxembourg	Malta	Romania
Nitric acid	STEL: 1 ppm STEL: 2.6 mg/m³ TWA: 0.78 ppm TWA: 2 mg/m³	STEL: 1 ppm STEL: 2.6 mg/m³	STEL: 1 ppm 15 Minuten STEL: 2.6 mg/m³ 15 Minuten	STEL: 1 ppm 15 minuti STEL: 2.6 mg/m ³ 15 minuti	STEL: 1 ppm 15 minute STEL: 2.6 mg/m³ 15 minute

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
Nitric acid	Skin notation	Ceiling: 2.6 mg/m ³		''	STEL: 1 ppm 15 dakika
	MAC: 2 mg/m ³		TWA: 2.6 mg/m ³ 8 urah	STV: 13 mg/m ³ 15	STEL: 2.6 mg/m ³ 15
			STEL: 1 ppm 15	minuter	dakika
			minutah	LLV: 2 ppm 8 timmar.	
			STEL: 2.6 mg/m ³ 15	LLV: 5 mg/m ³ 8 timmar.	
			minutah		

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory 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) No information available

_	Route of exposure	Acute effects (local)	Acute effects	Chronic effects	Chronic effects
	-		(systemic)	(local)	(systemic)
	Oral				
	Dermal				
	Inhalation				

Predicted No Effect Concentration No information available. (PNEC)

8.2. Exposure controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

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)

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Hand Protection Protective gloves Glove material Breakthrough time Glove thickness **EU** standard Glove comments > 480 minutes EN 374 As tested under EN374-3 Determination of Neoprene gloves 0.45 mm

Butyl rubber > 480 minutes 0.56 mm Level 6 Resistance to Permeation by Chemicals Viton (R) > 480 minutes 0.7 mm

Skin and body protection Long sleeved clothing

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.

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

Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits Large scale/emergency use

are exceeded or if irritation or other symptoms are experienced

Recommended Filter type: Particulates filter conforming to EN 143 Acid gases filter Type

E Yellow conforming to EN14387

Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure Small scale/Laboratory use

limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Valve filtering: EN405: or: Half mask: EN140: plus filter. EN

(0.1M)

When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls Prevent product from entering drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Clear Colorless Light yellow

Physical State Liquid

Odor Strong Acrid No data available **Odor Threshold**

рΗ 1.0

Melting Point/Range -42 °C / -43.6 °F **Softening Point** No data available

Boiling Point/Range 122 °C / 251.6 °F Flash Point Not applicable

Method - No information available

No information available **Evaporation Rate**

Flammability (solid, gas) Not applicable Liquid

Explosion Limits No data available

Vapor Pressure Vapor Density No data available (Air = 1.0)

No data available

Specific Gravity / Density 1.42

Bulk Density Not applicable Liquid

Water Solubility Miscible

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow Nitric acid -2.3

Autoignition Temperature No data available **Decomposition Temperature** No data available

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Viscosity
No data available
Explosive Properties
No information available

Oxidizing Properties Oxidizer

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity Yes

10.2. Chemical stability

Oxidizer: Contact with combustible/organic material may cause fire.

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions 10.4. Conditions to avoid

None under normal processing.

Incompatible products. Combustible material. Excess heat. Exposure to air or moisture over

prolonged periods.

10.5. Incompatible materials

Strong bases. Reducing agents. Aldehydes. Alcohols. Cyanides. Metals. Powdered metals.

Organic materials. Ammonia. Combustible material.

10.6. Hazardous decomposition products

Nitrogen oxides (NOx). Thermal decomposition can lead to release of irritating gases and

vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

(a) acute toxicity;

OralBased on available data, the classification criteria are not metDermalBased on available data, the classification criteria are not metInhalationBased on available data, the classification criteria are not met

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nitric acid			LC50 = 2500 ppm. (Rat) 1h
Water	-		

(b) skin corrosion/irritation; Category 1 A

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

RespiratorySkin
Based on available data, the classification criteria are not met
Based on available data, the classification criteria are not met

(e) germ cell mutagenicity; Based on available data, the classification criteria are not met

(f) carcinogenicity; Based on available data, the classification criteria are not met

There are no known carcinogenic chemicals in this product

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(g) reproductive toxicity; Based on available data, the classification criteria are not met

(h) STOT-single exposure; Based on available data, the classification criteria are not met

(i) STOT-repeated exposure; Based on available data, the classification criteria are not met

Target Organs No information available.

(j) aspiration hazard;

Based on available data, the classification criteria are not met

delayed

Symptoms / effects,both acute and Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Do not empty into drains. Large amounts will affect pH and harm aquatic organisms. **Ecotoxicity effects**

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Nitric acid	LC50: = 72 mg/L, 96h (Gambusia affinis)			

12.2. Persistence and degradability

Persistence

Soluble in water, Persistence is unlikely, based on information available, Miscible with

Degradation in sewage

treatment plant

No inhibition of bacteria is expected if properly introduced into a biological treatment facility. Neutralization is normally necessary before waste water is discharged into water treatment

plants.

Does not bioaccumulate 12.3. Bioaccumulative potential

Component	log Pow	Bioconcentration factor (BCF)
Nitric acid	-2.3	No data available

12.4. Mobility in soil The product is water soluble, and may spread in water systems . Will likely be mobile in the

environment due to its water solubility. Highly mobile in soils

12.5. Results of PBT and vPvB

assessment

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent

and very bioaccumulative (vPvB).

12.6. Other adverse effects

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

13.1. Waste treatment methods

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 Do not re-use empty containers. Dispose of this container to hazardous or special waste

collection point.

European Waste Catalogue (EWC)

According to the European Waste Catalogue, Waste Codes are not product specific, but

application specific.

Other Information

Waste codes should be assigned by the user based on the application for which the product was used. Do not dispose of waste into sewer. Do not empty into drains. Large amounts will affect pH and harm aquatic organisms. Solutions with low pH-value must be neutralized Nitric acid SG 1.42 (70%)

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before discharge.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

14.1. UN numberUN203114.2. UN proper shipping nameNITRIC ACID

14.3. Transport hazard class(es) 8
Subsidiary Hazard Class 5.1
14.4. Packing group II

<u>ADR</u>

14.1. UN numberUN203114.2. UN proper shipping nameNITRIC ACID

14.3. Transport hazard class(es) 8
Subsidiary Hazard Class 5.1
14.4. Packing group II

<u>IATA</u>

14.1. UN number UN2031 14.2. UN proper shipping name UN2031

14.3. Transport hazard class(es)8Subsidiary Hazard Class5.114.4. Packing groupII

14.5. Environmental hazards No hazards identified

14.6. Special precautions for user No special precautions required

14.7. Transport in bulk according to Not applicable, packaged goods Annex II of MARPOL73/78 and the

IDO O - -!-

IBC Code

SECTION 15: REGULATORY INFORMATION

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

International Inventories X = listed

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Nitric acid	231-714-2	-		X	Χ	-	X	Χ	Х	Χ	Х
Water	231-791-2	-		Х	Х	-	Х	-	Х	Х	Х

National Regulations

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class			
Nitric acid	WGK 1				

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

Take note of Dir 94/33/EC on the protection of young people 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

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has been conducted by the manufacturer/importer

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SECTION 16: OTHER INFORMATION

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

H272 - May intensify fire; oxidizer

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

EUH071 - Corrosive to the respiratory tract

Legend

CAS - Chemical Abstracts Service

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

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances NZIoC - New Zealand Inventory of Chemicals

IARC - International Agency for Research on Cancer

PNEC - Predicted No Effect Concentration

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

Substances List

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

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

ADR - European Agreement Concerning the International Carriage of

Dangerous Goods by Road IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

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

TWA - Time Weighted Average

EC50 - Effective Concentration 50%

VOC - Volatile Organic Compounds

LD50 - Lethal Dose 50%

MARPOL - International Convention for the Prevention of Pollution from

Ships ATE - Acute Toxicity Estimate

Key literature references and sources for data

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

Training Advice

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

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

Chemical incident response training.

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SDS section 1 updated and update of Format. **Revision Summary**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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