

Creation Date 04-Nov-2015

Revision Date 04-Nov-2015

Revision Number 1

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

1.1. Product identification

Product Description: **Hema 3 Fixative**
Cat No. : **122-911, 122-929**

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

Recommended Use Laboratory chemicals.
Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Company Richard Allan Scientific
A Subsidiary of Thermo Fisher Scientific
4481 Campus Drive
Kalamazoo, MI 49008
Tel: (800) 522-7270
E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

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

Flammable liquids Category 2

Health hazards

Acute oral toxicity Category 3
Acute dermal toxicity Category 3
Acute Inhalation Toxicity - Vapors Category 3
Specific target organ toxicity - (single exposure) Category 1

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

- H225 - Highly flammable liquid and vapor
- H301 - Toxic if swallowed
- H311 - Toxic in contact with skin
- H331 - Toxic if inhaled
- H370 - Causes damage to organs

Precautionary Statements

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
- P280 - Wear protective gloves/ protective clothing
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
- P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
- P311 - Call a POISON CENTER or doctor/ physician
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray

2.3. Other hazards

No information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS-No | EC-No. | Weight % | CLP Classification - Regulation (EC) No 1272/2008 |
|--------------------|----------|-------------------|----------|--|
| Methyl alcohol | 67-56-1 | 200-659-6 | >99 | Flam. Liq. 2 (H225) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) |
| C.I. Basic green 1 | 633-03-4 | EEC No. 211-190-1 | <1.0 | Eye Irrit. 2 (H319) Acute Tox. 4 (H302) |

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

- 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. Immediate medical attention is required.
- Ingestion** Do not induce vomiting. Call a physician or Poison Control Center immediately.
- Inhalation** Move to fresh air. 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. Immediate

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medical attention is required.

Protection of First-aiders

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

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

Breathing difficulties. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

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

Notes to Physician

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

CO₂, dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire with water spray.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

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

Hazardous Combustion Products

Carbon monoxide (CO), Formaldehyde.

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

Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Do not get in eyes, on skin, or on clothing.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Remove all sources of ignition. Soak up with inert absorbent material. Take precautionary measures against static discharges. Keep in suitable, closed 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

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Use only under a chemical fume hood. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area.

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

| Component | European Union | The United Kingdom | France | Belgium | Spain |
|----------------|---|---|---|--|---|
| Methyl alcohol | TWA: 200 ppm 8 hr TWA: 260 mg/m ³ 8 hr Skin | WEL - TWA: 200 ppm TWA; 266 mg/m ³ TWA WEL - STEL: 250 ppm STEL; 333 mg/m ³ STEL | TWA / VME: 200 ppm (8 heures). restrictive limit TWA / VME: 260 mg/m ³ (8 heures). restrictive limit STEL / VLCT: 1000 ppm. STEL / VLCT: 1300 mg/m ³ . Peau | TWA: 200 ppm 8 uren TWA: 266 mg/m ³ 8 uren STEL: 250 ppm 15 minuten STEL: 333 mg/m ³ 15 minuten Huid | TWA / VLA-ED: 200 ppm (8 horas) TWA / VLA-ED: 266 mg/m ³ (8 horas) Piel |
| Component | Italy | Germany | Portugal | The Netherlands | Finland |
| Methyl alcohol | TWA: 200 ppm 8 ore. Media Ponderata nel Tempo TWA: 260 mg/m ³ 8 ore. Media Ponderata nel Tempo Pelle | 200 ppm TWA; 270 mg/m ³ TWA Skin absorber | STEL: 250 ppm 15 minutos TWA: 200 ppm 8 horas TWA: 260 mg/m ³ 8 horas Pele | huid TWA: 133 mg/m ³ 8 uren TWA: 100 ppm 8 uren | TWA: 200 ppm 8 tunteina TWA: 270 mg/m ³ 8 tunteina STEL: 250 ppm 15 minuutteina STEL: 330 mg/m ³ 15 minuutteina Iho |
| Component | Austria | Denmark | Switzerland | Poland | Norway |
| Methyl alcohol | Haut MAK-KZW: 800 ppm 15 Minuten MAK-KZW: 1040 mg/m ³ 15 Minuten MAK-TMW: 200 ppm 8 Stunden MAK-TMW: 260 mg/m ³ 8 Stunden | TWA: 200 ppm 8 timer TWA: 260 mg/m ³ 8 timer Hud | Haut/Peau STEL: 800 ppm 15 Minuten STEL: 1040 mg/m ³ 15 Minuten TWA: 200 ppm 8 Stunden TWA: 260 mg/m ³ 8 Stunden | STEL: 300 mg/m ³ 15 minutach TWA: 100 mg/m ³ 8 godzinach | TWA: 100 ppm 8 timer TWA: 130 mg/m ³ 8 timer STEL: 100 ppm 15 minutter. STEL: 130 mg/m ³ 15 minutter. Hud |
| Component | Bulgaria | Croatia | Ireland | Cyprus | Czech Republic |
| Methyl alcohol | TWA: 200 ppm TWA: 260.0 mg/m ³ Skin notation | kože TWA-GVI: 200 ppm 8 satima. TWA-GVI: 260 mg/m ³ 8 satima. | TWA: 200 ppm 8 hr. TWA: 260 mg/m ³ 8 hr. STEL: 600 ppm 15 min STEL: 780 mg/m ³ 15 min Skin | Skin-potential for cutaneous absorption TWA: 200 ppm TWA: 260 mg/m ³ | TWA: 250 mg/m ³ 8 hodinách. Potential for cutaneous absorption Ceiling: 1000 mg/m ³ |
| Component | Estonia | Gibraltar | Greece | Hungary | Iceland |
| Methyl alcohol | Nahk TWA: 200 ppm 8 tundides. | Skin notation TWA: 200 ppm 8 hr TWA: 260 mg/m ³ 8 hr | skin - potential for cutaneous absorption STEL: 250 ppm | TWA: 260 mg/m ³ 8 órában. AK lehetséges borön | TWA: 200 ppm 8 klukkustundum. TWA: 260 mg/m ³ 8 |

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| | | | | | |
|--|--|--|---|------------------------|---|
| | TWA: 260 mg/m ³ 8 tündides. STEL: 250 ppm 15 minutites. STEL: 350 mg/m ³ 15 minutites. | | STEL: 325 mg/m ³ TWA: 200 ppm TWA: 260 mg/m ³ | keresztüli felszívódás | klukkustundum. Skin notation Ceiling: 400 ppm Ceiling: 520 mg/m ³ |
|--|--|--|---|------------------------|---|

| Component | Latvia | Lithuania | Luxembourg | Malta | Romania |
|----------------|---|---|--|--|--|
| Methyl alcohol | skin - potential for cutaneous exposure TWA: 200 ppm TWA: 260 mg/m ³ | TWA: 200 ppm IPRD TWA: 260 mg/m ³ IPRD Oda | Possibility of significant uptake through the skin TWA: 200 ppm 8 Stunden TWA: 260 mg/m ³ 8 Stunden | possibility of significant uptake through the skin TWA: 200 ppm TWA: 260 mg/m ³ | Skin notation TWA: 200 ppm 8 ore TWA: 260 mg/m ³ 8 ore STEL: 5 ppm 15 minute |

| Component | Russia | Slovak Republic | Slovenia | Sweden | Turkey |
|----------------|---|--|--|---|--|
| Methyl alcohol | TWA: 5 mg/m ³ Skin notation STEL: 15 mg/m ³ vapor | Potential for cutaneous absorption TWA: 200 ppm TWA: 260 mg/m ³ | TWA: 200 ppm 8 urah TWA: 260 mg/m ³ 8 urah Koža | STV: 250 ppm 15 minuter STV: 350 mg/m ³ 15 minuter LLV: 200 ppm 8 timmar. LLV: 250 mg/m ³ 8 timmar. Hud | Deri TWA: 200 ppm 8 saat TWA: 260 mg/m ³ 8 saat |

Biological limit values

| Component | European Union | United Kingdom | France | Spain | Germany |
|----------------|----------------|----------------|--------------------------------------|--------------------------------------|--|
| Methyl alcohol | | | Methanol: 15 mg/L urine end of shift | Methanol: 15 mg/L urine end of shift | Methanol: 30 mg/L urine (end of shift) Methanol: 30 mg/L urine (end of several shifts for long-term exposures) |

| Component | Italy | Finland | Denmark | Bulgaria | Romania |
|----------------|-------|---------|---------|----------|-------------------------------------|
| Methyl alcohol | | | | | Methanol: 6 mg/L urine end of shift |

| Component | Gibraltar | Latvia | Slovak Republic | Luxembourg | Turkey |
|----------------|-----------|--------|---|------------|--------|
| Methyl alcohol | | | Methanol: 30 mg/L urine end of exposure or work shift Methanol: 30 mg/L urine after all work shifts for long-term exposure | | |

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 (systemic) | Chronic effects (local) | Chronic effects (systemic) |
|------------------------------|-----------------------|--------------------------|-------------------------|----------------------------|
| Oral Dermal Inhalation | | | | |

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures

Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations

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and safety showers are close to the workstation location.

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

Safety glasses with side-shields (European standard - EN 166)

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.

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 compatibility, 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

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 exposure limits are exceeded or if irritation or other symptoms are experienced.
When RPE is used a face piece Fit Test should be conducted

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | | |
|---|---|-----------------------------------|
| Appearance | Clear Light green | |
| Physical State | Liquid | |
| Odor | Alcohol-like mild | |
| Odor Threshold | No data available | |
| pH | No data available | |
| Melting Point/Range | -98 °C / -144.4 °F | |
| Softening Point | No data available | |
| Boiling Point/Range | 64.7 °C / 148.5 °F | |
| Flash Point | 11 °C / 51.8 °F | Method - No information available |
| Evaporation Rate | 5.2 (Butyl Acetate = 1.0) | |
| Flammability (solid,gas) | No information available | |
| Explosion Limits | Lower 6.0 vol % Upper 36.0 vol % | |
| Vapor Pressure | 127 mmHg @ 25°C | |
| Vapor Density | 1.11 (Air = 1.0) | (Air = 1.0) |
| Specific Gravity / Density | No data available 0.791 | |
| Bulk Density | No data available | |
| Water Solubility | No information available | |
| Solubility in other solvents | No information available | |
| Partition Coefficient (n-octanol/water) | | |
| Component | log Pow | |

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| | |
|----------------------------------|--------------------------|
| Methyl alcohol | -0.74 |
| Autoignition Temperature | 464 - °C / 867.2 °F |
| Decomposition Temperature | No data available |
| Viscosity | No data available |
| Explosive Properties | No information available |
| Oxidizing Properties | No information available |

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Hazardous Polymerization
Hazardous Reactions

Hazardous polymerization does not occur.
No information available.

10.4. Conditions to avoid

Incompatible products. Heat, flames and sparks.

10.5. Incompatible materials

Peroxides. Acids. Acid anhydrides. Acid chlorides. Metals. Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon monoxide (CO). Formaldehyde.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

No acute toxicity information is available for this product

(a) acute toxicity;

| | |
|-------------------|-------------------|
| Oral | No data available |
| Dermal | No data available |
| Inhalation | No data available |

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|----------------|--|---|--|
| Methyl alcohol | Calc. ATE 60 mg/kg (Human evidence) LD50 = 6200 mg/kg (Rat) | Calc. ATE 300 mg/kg (Human evidence) LD50 = 15800 mg/kg (Rabbit) | Calc. ATE 3.0 mg/l (vapours) or 0.5 mg/l (dust/mists) (Human evidence) LC50 = 64000 ppm (Rat) 4 h 83.2 mg/L (Rat) 4 h |

(b) skin corrosion/irritation; No data available

(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

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| | |
|---|--|
| | There are no known carcinogenic chemicals in this product |
| (g) reproductive toxicity; Reproductive Effects Developmental Effects Teratogenicity | No data available Experiments have shown reproductive toxicity effects on laboratory animals. Developmental effects have occurred in experimental animals. Teratogenic effects have occurred in experimental animals. |
| (h) STOT-single exposure; | No data available |
| (i) STOT-repeated exposure; | No data available |
| Target Organs | Eyes, Skin, Central nervous system (CNS), Optic nerve, Liver, Kidney, spleen, Gastrointestinal tract (GI), Respiratory system. |
| (j) aspiration hazard; | No data available |
| Other Adverse Effects | Tumorigenic effects have been reported in experimental animals. See actual entry in RTECS for complete information |
| Symptoms / effects,both acute and delayed | Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting |

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects Do not empty into drains.

| Component | Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|----------------|---|-----------------------|------------------|---|
| Methyl alcohol | Pimephales promelas: LC50 > 10000 mg/L 96h | EC50 > 10000 mg/L 24h | | EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min |

12.2. Persistence and degradability No information available

12.3. Bioaccumulative potential No information available

| Component | log Pow | Bioconcentration factor (BCF) |
|----------------|---------|-------------------------------|
| Methyl alcohol | -0.74 | 10 (fish) |

12.4. Mobility in soil .

12.5. Results of PBT and vPvB assessment No data available for assessment.

12.6. Other adverse effects

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors
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

SECTION 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. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Contaminated Packaging Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

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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.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

14.1. UN number UN1230
14.2. UN proper shipping name METHANOL
14.3. Transport hazard class(es) 3
14.4. Packing group II

ADR

14.1. UN number UN1230
14.2. UN proper shipping name METHANOL
14.3. Transport hazard class(es) 3
 Subsidiary Hazard Class 6.1
14.4. Packing group II

IATA

14.1. UN number UN1230
14.2. UN proper shipping name METHANOL
14.3. Transport hazard class(es) 3
14.4. Packing group II

14.5. Environmental hazards No hazards identified

14.6. Special precautions for user No special precautions required

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

SECTION 15: REGULATORY INFORMATION

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

International Inventories Australia Complete Regulatory Information contained in following SDS's X = listed China Canada The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC Europe TSCA Korea Philippines Japan

| Component | EINECS | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | IECSC | AICS | KECL |
|--------------------|-----------|--------|-----|------|-----|------|-------|------|-------|------|------|
| Methyl alcohol | 200-659-6 | - | | X | X | - | X | X | X | X | X |
| C.I. Basic green 1 | 211-190-1 | - | | X | X | - | X | X | X | X | X |

| Component | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|----------------|---|--|
| Methyl alcohol | 500 tonne | 5000 tonne |

National Regulations

| Component | Germany - Water Classification (VwVwS) | Germany - TA-Luft Class |
|----------------|--|-------------------------|
| Methyl alcohol | WGK 1 WGK 2 | |

| Component | France - INRS (Tables of occupational diseases) |
|-----------|---|
| | |

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| | |
|----------------|--|
| Methyl alcohol | Tableaux des maladies professionnelles (TMP) - RG 84 |
|----------------|--|

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 not been conducted

SECTION 16: OTHER INFORMATION

Full Text of H-/EUH-Statements Referred to Under Section 3

H225 - Highly flammable liquid and vapor

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H331 - Toxic if inhaled

H370 - Causes damage to organs

Legend

CAS - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical 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

Key literature references and sources for data

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

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

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

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

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

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate

VOC - Volatile Organic Compounds

Training Advice

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

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Revision Summary Not applicable.

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