# SAFETY DATA SHEET

**Australian statement of hazardous nature :** Classified as hazardous according to criteria of Safe Work Australia

## Section 1 - Identification

**Product Name** **Fastmount & Colourfast**

| | |
|---|---|
| **Product Code** | **FNNII022, FNNII023, FNNII024, FNNII026, FNNII027, FNNNORMOU2L, FNNII023DPX** |
| **Address** | ThermoFisher Scientific Australia Pty Ltd<br>5 Caribbean Drive, Scoresby<br>VICTORIA 3179, Australia |
| **Emergency Tel.** | **CHEMTREC®**<br>**03 9757 4559 or +613 9757 4559** |
| **Telephone / Fax Numbers** | Tel: 1300 735 292<br>Fax: 1800 067 639 |
| **E-mail address** | ANZinfo@thermofisher.com |

**Recommended Use** Laboratory chemicals.

**Uses advised against** This product contains one or more substance(s) on the Illicit Drug Precursors/Reagents list. Verify requirements related to using, handling and storing these substances. This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction. This product does not contain any substance(s) listed on the voluntary National Code of Practice for Chemicals of Security Concern.

## Section 2 - Hazard(s) Identification

**Classification under Safe Work Australia**

Classified as hazardous according to criteria of Safe Work Australia

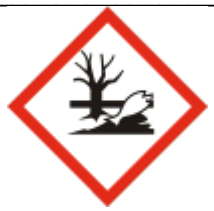
| | |
|---|---|
| **Physical hazards** | |
| Flammable liquids | Category 3 |
| **Health hazards** | |
| Aspiration Toxicity | Category 1 |
| Acute Dermal Toxicity | Category 4 |
| Acute Inhalation Toxicity - Vapors | Category 4 |
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2 |
| Reproductive Toxicity | Category 1B |
| Specific target organ toxicity - (single exposure) | Category 3 |
| Specific target organ toxicity - (repeated exposure) | Category 1 |
| **Environmental hazards** | |
| Chronic aquatic toxicity | Category 2 |

**Label Elements**


Flame


Exclamation Mark


Health Hazard


Environment

**Signal Word** **Danger**

**Hazard Statements**
H226 - Flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H360 - May damage fertility or the unborn child
H372 - Causes damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects
H312 + H332 - Harmful in contact with skin or if inhaled
AUH066 - Repeated exposure may cause skin dryness or cracking

**Precautionary Statements**
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233 - Keep container tightly closed
P240 - Ground and bond container and receiving equipment
P242 - Use non-sparking tools
P243 - Take action to prevent static discharges
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection/ face protection
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
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
P312 - Call a POISON CENTER or doctor if you feel unwell
P331 - Do NOT induce vomiting
P363 - Wash contaminated clothing before reuse
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents/ container to an approved waste disposal plant

**Other information**

Contains a known or suspected endocrine disruptor
Included in the list established in accordance with Article 59(1) for having endocrine disrupting properties
Toxic to terrestrial vertebrates

# Section 3 - Composition and Information on Ingredients

| Component | CAS No | Weight % |
|---|---|---|
| Xylene | 1330-20-7 | 60-100 |
| Styrene | 100-42-5 | 30-60 |

| | | |
|---|---|---|
| Dibutyl phthalate | 84-74-2 | <5 |
| Acetone | 67-64-1 | <5 |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | <5 |

# Section 4 - First Aid Measures

**Inhalation** Risk of serious damage to the lungs (by aspiration).

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately. If vomiting occurs naturally, have victim lean forward.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**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.

**First Aid Facilities** Eyewash, safety shower and washroom.

**Most important symptoms and effects** Difficulty in breathing. . Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

**Notes to Physician** Treat symptomatically.

# Section 5 - Fire Fighting Measures

**Suitable Extinguishing Media**
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.

**Special protective equipment and precautions for fire fighters**
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

**Emergency procedures**
Remove all sources of ignition. Take precautionary measures against static discharges.

**Environmental Precautions**
Do not flush into surface water or sanitary sewer system.

**Methods for Containment and Clean Up**

**Clean-up methods - small spillage**
Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

**Clean-up methods - large spillage**

Typically only supplied is small quantiites as packaged goods.
If extremely toxic or used in larger quantities ensure a spillage action plan is in place. Evacuate area. Control the source and/or contain the spill if safe and able to do so. Use temporary diking, sand bags, dry sand, earth or proprietary booms/absorbent pads if available. Obtain advice on containment, neutralisation and clean-up from local emergency responders.

**Reference to Other Sections**
Refer to protective measures listed in Sections 8 and 13.

# Section 7 - Handling and Storage

**Precautions for Safe Handling**
Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

**Conditions for Safe Storage, Including any Incompatibilities**
Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals
AS 1940-2004 - The storage and handling of flammable and combustible liquids

# Section 8 - Exposure Controls and Personal Protection

**Exposure limits**
**AUS** - Exposure Standards for Atmospheric Contaminants in the Occupational Environment - Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)]
Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] updated in August, 2005. Safe Work Australia
**ACGIH** - Threshold Limit Values - Ceiling (TLV-C) guidelines by the American Conference of Governmental Industrial Hygienists (ACGIH) for controlling worker exposure to airborne chemical concentrations in the workplace.
**UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020.
**DE** - MAK and BAT values of Hazardous Chemical Compounds in the Work Area. Published by German Research Foundation on July 1, 2011
**NZ** - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

| Component | Australia | New Zealand WEL | ACGIH TLV | The United Kingdom | Germany |
|---|---|---|---|---|---|
| Xylene | STEL: 150 ppm<br>STEL: 655 mg/m³<br>TWA: 80 ppm<br>TWA: 350 mg/m³ | TWA: 50 ppm<br>TWA: 217 mg/m³ | TWA: 20 ppm | STEL: 100 ppm 15 min<br>STEL: 441 mg/m³ 15 min<br>TWA: 50 ppm 8 hr<br>TWA: 220 mg/m³ 8 hr<br>Skin | TWA: 50 ppm (8 Stunden). AGW - exposure factor 2<br>TWA: 220 mg/m³ (8 Stunden). AGW - exposure factor 2<br>TWA: 50 ppm (8 Stunden). MAK all isomers<br>TWA: 220 mg/m³ (8 Stunden). MAK all isomers<br>Höhepunkt: 100 ppm<br>Höhepunkt: 440 mg/m³<br>Haut<br>Haut all isomers |
| Styrene | STEL: 100 ppm<br>STEL: 426 mg/m³<br>TWA: 50 ppm<br>TWA: 213 mg/m³ | TWA: 20 ppm<br>TWA: 85 mg/m³<br>STEL: 40 ppm<br>STEL: 170 mg/m³ | TWA: 10 ppm<br>STEL: 20 ppm | STEL: 250 ppm 15 min<br>STEL: 1080 mg/m³ 15 min<br>TWA: 100 ppm 8 hr<br>TWA: 430 mg/m³ 8 hr | TWA: 20 ppm (8 Stunden). AGW - exposure factor 2<br>TWA: 86 mg/m³ (8 Stunden). AGW - exposure factor 2<br>TWA: 20 ppm (8 Stunden). MAK<br>TWA: 86 mg/m³ (8 Stunden). MAK<br>Höhepunkt: 40 ppm<br>Höhepunkt: 172 mg/m³ |
| Dibutyl phthalate | TWA: 5 mg/m³ | TWA: 0.05 ppm | TWA: 5 mg/m³ | STEL: 10 mg/m³ 15 min | TWA: 0.05 ppm (8 |

| | | | | | |
|---|---|---|---|---|---|
| | | TWA: 0.58 mg/m³ | | TWA: 5 mg/m³ 8 hr | Stunden). AGW - exposure factor 2<br>TWA: 0.58 mg/m³ (8 Stunden). AGW - exposure factor 2<br>TWA: 0.05 ppm (8 Stunden). MAK can occur as vapor and aerosol at the same time<br>TWA: 0.58 mg/m³ (8 Stunden). MAK can occur as vapor and aerosol at the same time<br>Höhepunkt: 0.1 ppm<br>Höhepunkt: 1.16 mg/m³ |
| Acetone | STEL: 1000 ppm<br>STEL: 2375 mg/m³<br>TWA: 500 ppm<br>TWA: 1185 mg/m³ | TWA: 500 ppm<br>TWA: 1185 mg/m³<br>STEL: 1000 ppm<br>STEL: 2375 mg/m³ | TWA: 250 ppm<br>STEL: 500 ppm | TWA: 500 ppm<br>TWA: 1210 mg/m³<br>STEL: 1500 ppm<br>STEL: 3620 mg/m³ | TWA: 500 ppm<br>TWA: 1200 mg/m³ |
| 2,6-Di-tert-butyl-p-cresol | TWA: 10 mg/m³ | TWA: 10 mg/m³ | TWA: 2 mg/m³ | STEL: 30 mg/m³ 15 min<br>TWA: 10 mg/m³ 8 hr | TWA: 10 mg/m³ (8 Stunden). AGW - exposure factor 4<br>TWA: 10 mg/m³ (8 Stunden). MAK can occur as vapor and aerosol at the same time<br>Höhepunkt: 40 mg/m³ |

**Biological limit values**

**UK** - Biological Monitoring Guidance Values provided by the UK's Health and Safety Executive (HSE) Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended) and EH40/2005.

| Component | Australia | New Zealand | European Union | United Kingdom | Germany |
|---|---|---|---|---|---|
| Xylene | | 1.5 g/L (urine) end of shift (Methylhippuric acid) | | Methyl hippuric acid: 650 mmol/mol creatinine urine post shift | Methylhippuric(tolur-)acid (all isomers): 2000 mg/L urine (end of shift all isomers) |
| Styrene | | 400 mg/g creatinine (urine) end of shift (Mandelic acid plus phenylglyoxylic acid)<br>40 µg/L (urine) end of shift (Styrene) | | | Mandelic acid plus Phenylglyoxylic acid: 600 mg/g Creatinine urine (end of shift )<br>Mandelic acid plus Phenylglyoxylic acid: 600 mg/g Creatinine urine (for long-term exposures: at the end of the shift after several shifts ) |
| Acetone | | 50 mg/L (urine) end of shift (Acetone) | | | Acetone: 80 mg/L urine (end of shift ) |

**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 (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial applications)

**Hand Protection** Protective gloves

| Glove material | Breakthrough time | Glove thickness | AUS/NZ Standard | Glove comments |
|---|---|---|---|---|
| Disposable gloves | See manufacturers recommendations | - | AS/NZS 2161 | (minimum requirement) |

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

**Repiratory Protection** Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use and maintenance of repiratory protective devices (or AUS/NZ equivalent)
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** Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

# Section 9 - Physical and Chemical Properties

**Information on basic physical and chemical properties**

| | | |
|---|---|---|
| **Appearance** | Colourless | |
| **Physical State** | Liquid | |
| **Odor** | No information available | |
| **Odor Threshold** | No data available | |
| **pH** | Not applicable | |
| **Melting Point/Range** | -48 °C / -54.4 °F | |
| **Softening Point** | No data available | |
| **Boiling Point/Range** | 136 - 145 °C / 276.8 293 °F | |
| **Flash Point** | No data available | **Method -** No information available |
| **Evaporation Rate** | No data available | |
| **Flammability (solid,gas)** | Not applicable | Liquid |
| **Explosion Limits** | No data available | |
| **Vapor Pressure** | No data available | |
| **Vapor Density** | No data available | (Air = 1.0) |
| **Specific Gravity / Density** | No data available | |
| **Bulk Density** | Not applicable | Liquid |
| **Water Solubility** | No information available | |
| **Solubility in other solvents** | No information available | |

**Partition Coefficient (n-octanol/water)**

| **Component** | **log Pow** |
|---|---|
| Xylene | 3.15 |
| Styrene | 2.96 |
| Dibutyl phthalate | 4.79 |
| Acetone | -0.24 |
| 2,6-Di-tert-butyl-p-cresol | 5.1 |

| | | |
|---|---|---|
| **Autoignition Temperature** | No data available | |
| **Decomposition Temperature** | No data available | |
| **Viscosity** | No data available | |
| **Explosive Properties** | | explosive air/vapour mixtures possible |
| **Oxidizing Properties** | No information available | |

**Other information**

# Section 10 - Stability and Reactivity

**Reactivity** None known, based on information available

**Stability** Stable under normal conditions.

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

**Incompatible Materials** None known.

**Hazardous Decomposition Products** None under normal use conditions.

**Hazardous Polymerization** No information available.

# Section 11 - Toxicological Information

**Information on Toxicological Effects**

**Product Information**

**(a) acute toxicity;**

**Oral** Based on available data, the classification criteria are not met
**Dermal** Category 4
**Inhalation** Category 4

**Toxicology data for the components**

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| Xylene | 3500 mg/kg ( Rat ) | 4350 mg/kg ( Rabbit ) | 29.08 mg/L ( Rat ) 4 h |
| Styrene | - | LD50 > 2000 mg/kg ( Rat ) | LC50 = 11.7 mg/L ( Rat ) 4 h |
| Dibutyl phthalate | LD50 = 7499 mg/kg ( Rat ) | >20000 mg/kg ( Rabbit ) | LC50 >= 15.68 mg/L ( Rat ) 4 h |
| Acetone | 5800 mg/kg ( Rat ) | > 15800 mg/kg (rabbit)<br>> 7400 mg/kg (rat) | 76 mg/l, 4 h, (rat) |
| 2,6-Di-tert-butyl-p-cresol | > 6 g/kg ( Rat ) | > 2 g/kg ( Rat ) | |

**(b) skin corrosion/irritation;** Category 2

**(c) serious eye damage/irritation;** Category 2

**(d) respiratory or skin sensitization;**

**Respiratory** No data available
**Skin** No data available

| Component | Test method | Test species | Study result |
|---|---|---|---|
| Acetone<br>67-64-1 ( <5 ) | Guinea Pig Maximisation Test (GPMT) | guinea pig | non-sensitising |

**(e) germ cell mutagenicity;** No data available

| Component | Test method | Test species | Study result |
|---|---|---|---|
| Acetone<br>67-64-1 ( <5 ) | OECD Test Guideline 471<br>AMES test | in vivo | negative |
| | OECD Test Guideline 476<br>Mammalian<br>Gene cell mutation | in vitro | negative |

**(f) carcinogenicity;** No data available

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Component | Australia | New Zealand | New South Wales | Western Australia | IARC | EU | UK | Germany |
|---|---|---|---|---|---|---|---|---|
| Styrene | | Suspected carcinogen | | | Group 2A | | | |

**(g) reproductive toxicity;** Category 1B

**(h) STOT-single exposure;** Category 3

**(i) STOT-repeated exposure;** Category 1

**Target Organs** No information available.

**(j) aspiration hazard;** Category 1

**Symptoms / effects,both acute and delayed** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

# Section 12 - Ecological Information

**Ecotoxicity effects** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Contains a substance which is:. Very toxic to aquatic organisms.

| Component | Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|---|---|---|---|---|
| Xylene | LC50: 30.26 - 40.75 mg/L, 96h static (Poecilia reticulata)<br>LC50: = 780 mg/L, 96h semi-static (Cyprinus carpio)<br>LC50: 23.53 - 29.97 mg/L, 96h static (Pimephales promelas)<br>LC50: > 780 mg/L, 96h (Cyprinus carpio)<br>LC50: 7.711 - 9.591 mg/L, 96h static (Lepomis macrochirus)<br>LC50: = 19 mg/L, 96h (Lepomis macrochirus)<br>LC50: 13.1 - 16.5 mg/L, 96h flow-through (Lepomis macrochirus)<br>LC50: 13.5 - 17.3 mg/L, 96h (Oncorhynchus mykiss)<br>LC50: 2.661 - 4.093 mg/L, 96h static (Oncorhynchus mykiss)<br>LC50: = 13.4 mg/L, 96h flow-through (Pimephales promelas) | LC50: = 0.6 mg/L, 48h (Gammarus lacustris)<br>EC50: = 3.82 mg/L, 48h (water flea) | | |
| Styrene | LC50: 19.03 - 33.53 mg/L, 96h static (Lepomis macrochirus)<br>LC50: 58.75 - 95.32 mg/L, 96h static (Poecilia reticulata)<br>LC50: 6.75 - 14.5 mg/L, 96h static (Pimephales promelas) | EC50: 3.3 - 7.4 mg/L, 48h (Daphnia magna) | EC50: 0.15 - 3.2 mg/L, 96h static (Pseudokirchneriella subcapitata)<br>EC50: 0.46 - 4.3 mg/L, 72h static (Pseudokirchneriella subcapitata)<br>EC50: = 0.72 mg/L, 96h | = 5.4 mg/L EC50 Photobacterium phosphoreum 5 min |

| | | | | |
|---|---|---|---|---|
| | LC50: 3.24 - 4.99 mg/L, 96h flow-through (Pimephales promelas) | | (Pseudokirchneriella subcapitata) EC50: = 1.4 mg/L, 72h (Pseudokirchneriella subcapitata) | |
| Dibutyl phthalate | LC50: 0.42 - 1.28 mg/L, 96h static (Lepomis macrochirus) LC50: 1.24 - 5.3 mg/L, 96h static (Oncorhynchus mykiss) LC50: > 1.24 mg/L, 96h flow-through (Oncorhynchus mykiss) LC50: 0.31 - 5.45 mg/L, 96h static (Pimephales promelas) LC50: 0.71 - 1.2 mg/L, 96h flow-through (Pimephales promelas) LC50: 1.38 - 1.74 mg/L, 96h flow-through (Lepomis macrochirus) | EC50: = 3.4 mg/L, 48h (Daphnia magna) EC50: = 2.99 mg/L, 48h Static (Daphnia magna) | EC50: = 0.4 mg/L, 96h static (Pseudokirchneriella subcapitata) EC50: = 1.2 mg/L, 72h (Desmodesmus subspicatus) | EC50 = 10.9 mg/L 30 min EC50 = 10.9 mg/L 5 min EC50 = 11.1 mg/L 15 min EC50 = 2.2 mg/L 24 h |
| Acetone | Oncorhynchus mykiss: LC50 = 5540 mg/l 96h Alburnus alburnus: LC50 = 11000 mg/l 96h Leuciscus idus: LC50 = 11300 mg/L/48h Salmo gairdneri: LC50 = 6100 mg/L/24h | EC50 = 8800 mg/L/48h EC50 = 12700 mg/L/48h EC50 = 12600 mg/L/48h | NOEC = 430 mg/l (algae; 96 h) | EC50 = 14500 mg/L/15 min |
| 2,6-Di-tert-butyl-p-cresol | LC50 = 0.199 mg/L 96h | EC50 >0.31 mg/L 48h | EC50 = 0.758 mg/L 96h EC50 = 6 mg/L 72 h | EC50 = 7.82 mg/L 5 min EC50 = 8.57 mg/L 15 min EC50 = 8.98 mg/L 30 min |

**Persistence and Degradability** No information available

| Component | Degradability |
|---|---|
| Acetone 67-64-1 ( <5 ) | 91 % (28 d) (OECD 301 B) |

**Degradation in sewage treatment plant** Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**Bioaccumulative Potential** No information available

| Component | log Pow | Bioconcentration factor (BCF) |
|---|---|---|
| Xylene | 3.15 | 0.6 - 15 dimensionless |
| Styrene | 2.96 | 13.5 dimensionless |
| Dibutyl phthalate | 4.79 | No data available |
| Acetone | -0.24 | 0.69 dimensionless |
| 2,6-Di-tert-butyl-p-cresol | 5.1 | 230 - 2500 dimensionless |

**Mobility** No information available.

**Endocrine Disruptor Information**

| Component | EU - Endocrine Disrupters Candidate List | EU - Endocrine Disruptors - Evaluated Substances | Japan - Endocrine Disruptor Information |
|---|---|---|---|
| Styrene | Group I Chemical | High Exposure Concern | |
| Dibutyl phthalate | Group I Chemical | High Exposure Concern | |

**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

**Waste from Residues/Unused Products** Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure

conformity with all applicable 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** Chemical wastes should be disposed through a licensed commercial waste collection service. Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Can be landfilled or incinerated, when in compliance with local regulations. Do not let this chemical enter the environment. Do not empty into drains.

# Section 14 - Transport Information

**IMDG/IMO**

**UN-No** UN1993
**Proper Shipping Name** Flammable liquid, n.o.s.
**Technical Shipping Name** CONTAINS XYLENE, STYRENE AND ACETONE
**Hazard Class** 3
**Packing Group** III

| Component | IMDG Marine Pollutant |
|---|---|
| Dibutyl phthalate<br>84-74-2 ( <5 ) | IMDG regulated marine pollutant (Listed in the index) |

**ADG**

**UN-No** UN1993
**Proper Shipping Name** Flammable liquid, n.o.s.
**Technical Shipping Name** CONTAINS XYLENE, STYRENE AND ACETONE
**Hazard Class** 3
**Packing Group** III

| Component | Hazchem Code |
|---|---|
| Xylene<br>1330-20-7 ( 60-100 ) | 3Y<br>3YE |
| Styrene<br>100-42-5 ( 30-60 ) | 3Y |
| Acetone<br>67-64-1 ( <5 ) | 2YE |

**IATA**

**UN-No** UN1993
**Proper Shipping Name** Flammable liquid, n.o.s.
**Technical Shipping Name** CONTAINS XYLENE, STYRENE AND ACETONE
**Hazard Class** 3
**Packing Group** III

**Environmental hazards** Dangerous for the environment
Product is a marine pollutant according to the criteria set by IMDG/IMO

**Special Precautions** No special precautions required

**Additional information** None known

# Section 15 - Regulatory Information

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

**National Regulations** **Australia**

See section 8 for national exposure control parameters.

**Standard for the Uniform Scheduling of Medicines and Poisons**
Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons.

| Component | Standard for the Uniform Scheduling of Medicines and Poisons |
|---|---|
| Xylene - 1330-20-7 | Schedule 5 listed - including Kerosene, Diesel [distillate], Mineral turpentine, White petroleum spirit, Toluene, Xylene and light mineral and paraffin oils but except their derivative;except a) Toluene and Xylene when included in Schedule 6, b) Benzene and liquid aromatic hydrocarbons when included in Schedule 7, c) food grade and pharmaceutical grade White mineral oil, d) in solid or semi-solid preparations, e) in preparations containing <=25% of designated solvents, f) in preparations packed in pressurized spray packs, g) in adhesives packed in containers each containing <=50 grams of adhesive, h) in writing correction fluids and thinners for writing correction fluids packed in containers having a capacity of <=20 mL, or i) in other preparations when packed in containers with a capacity of <=2 mL<br>Schedule 6 listed - except its derivatives;except in preparations containing <=50% of Xylene or Xylene and Toluene |
| Styrene - 100-42-5 | Schedule 5 listed - except its derivatives |
| Dibutyl phthalate - 84-74-2 | Schedule 10 listed |
| Acetone - 67-64-1 | Schedule 5 listed - except in preparations containing <=25% of designated solvents |

**Australian Industrial Chemicals Introduction Scheme (AICIS)**

| Component | Australian Industrial Chemicals Introduction Scheme (AICIS) | Additional information |
|---|---|---|
| Xylene - 1330-20-7 | Present | - |
| Styrene - 100-42-5 | Present | - |
| Dibutyl phthalate - 84-74-2 | Present | Specific information requirement: Obligations to provide information apply. You must tell us within 28 days if the circumstances of your importation or manufacture (introduction) are different to those in our assessment. |
| Acetone - 67-64-1 | Present | - |
| 2,6-Di-tert-butyl-p-cresol - 128-37-0 | Present | - |

**Australian - Illicit Drug Precursors/Reagents Substance List**
This product contains one or more substance(s) on the Illicit Drug Precursors/Reagents list. Verify requirements related to using, handling and storing these substances.

**Chemicals of Security Concern**
This product does not contain any substance(s) listed on the voluntary National Code of Practice for Chemicals of Security Concern

| Component | Australian - Illicit Drug Precursors/Reagents Substance List | Chemicals of Security Concern |
|---|---|---|
| Acetone - 67-64-1 | Category 3 | |

**Legend**
Category 3 - Chemicals and apparatus that may be used in the illicit production of drugs. Purchases from this list should alert companies or organizations to seek further indicators of any suspicious orders or enquiries. No official reporting is required for items on this list unless considered warranted

**National pollutant inventory** Subject to reporting requirements

| Component | National pollutant inventory |
|---|---|
| Xylene - 1330-20-7 | 10 tonne/yr. Threshold category 1 including individual or mixed isomers |
| Styrene - 100-42-5 | 10 tonne/yr. Threshold category 1 |
| Dibutyl phthalate - 84-74-2 | 10 tonne/yr. Threshold category 1 |
| Acetone - 67-64-1 | 10 tonne/yr. Threshold category 1 |

**Prohibition or notification/licensing requirements**
Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction.

| Component | Australia | New South Wales | Western Australia | New Zealand |
|---|---|---|---|---|
| Styrene - 100-42-5 | | | | Suspected carcinogen |

**International Inventories**

| Component | AICS | NZIoC | EINECS | ELINCS | TSCA | DSL | NDSL | PICCS | ENCS | ISHL | IECSC | KECL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Xylene | X | X | 215-535-7 | - | X | X | - | X | X | X | X | KE-35427 |
| Styrene | X | X | 202-851-5 | - | X | X | - | X | X | X | X | KE-35342 |
| Dibutyl phthalate | X | X | 201-557-4 | - | X | X | - | X | X | X | X | KE-02214 |
| Acetone | X | X | 200-662-2 | - | X | X | - | X | X | X | X | KE-29367 |
| 2,6-Di-tert-butyl-p-cresol | X | X | 204-881-4 | - | X | X | - | X | X | X | X | KE-03079 |

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

**International Regulations**

**Ozone Depletion Potential** This product does not contain any known or suspected substance

**Persistent Organic Pollutant** This product does not contain any known or suspected substance

**Rotterdam Convention (PIC)** Not applicable

**MARPOL** - International Convention for the Prevention of Pollution from Ships

| Component | IMDG Marine Pollutant |
|---|---|
| Dibutyl phthalate - 84-74-2 | IMDG regulated marine pollutant (Listed in the index) |

**Basel convention on the control of transboundary movements of hazardous wastes and their dispoal**
Take note that wastes may be subject to export, import, or transit controls pursuant to the Basel convention and/or local regulations implementing the Basel convention.

| Component | Basel Convention (Hazardous Waste) | Australian Hazardous Waste Act - Categories of Wastes to Be Controlled |
|---|---|---|
| Xylene - 1330-20-7 | Annex I - Y42 | Y42 except Halogenated solvents |
| Acetone - 67-64-1 | Annex I - Y42 | Y42 except Halogenated solvents |

| Component | CAS No | OECD HPV | Restriction of Hazardous Substances (RoHS) | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|---|---|---|---|---|---|
| Xylene | 1330-20-7 | Listed | Not applicable | Not applicable | Not applicable |
| Styrene | 100-42-5 | Listed | Not applicable | Not applicable | Not applicable |
| Dibutyl phthalate | 84-74-2 | Listed | 0.1% (Max. Conc.) | Not applicable | Not applicable |
| Acetone | 67-64-1 | Listed | Not applicable | Not applicable | Not applicable |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Listed | Not applicable | Not applicable | Not applicable |

**Authorisation/Restrictions according to EU REACH**

| Component | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High |
|---|---|---|---|

| | | | |
|---|---|---|---|
| | | | **Concern (SVHC)** |
| Xylene | - | Use restricted. See item 75.<br>(see link for restriction details) | - |
| Styrene | - | Use restricted. See item 75.<br>(see link for restriction details) | - |
| Dibutyl phthalate | Toxic for reproduction Category 1B,Article 57<br>Application date: August 21, 2013<br>Sunset date: February 21, 2015<br>Exemption - None<br>Endocrine disrupting properties (Article 57(f) - environment)<br>Application date: August 21, 2013<br>Sunset date: February 21, 2015<br>Exemption - None | Use restricted. See item 30.<br>(see link for restriction details)<br>Use restricted. See item 51[b].<br>(see link for restriction details)<br>Use restricted. See item 75.<br>(see link for restriction details) | SVHC Candidate list - 201-557-4 - Toxic for reproduction, Article 57c;Endocrine disrupting properties, Article 57f - human health |
| Acetone | - | Use restricted. See item 75.<br>(see link for restriction details) | - |

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

*https://echa.europa.eu/authorisation-list*
*https://echa.europa.eu/candidate-list-table*
*https://echa.europa.eu/substances-restricted-under-reach*

# Section 16 - Other Information

**Legend**

**AICS** - Australian Inventory of Chemical Substances
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**IECSC** - Chinese Inventory of Existing Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**TWA** - Time Weighted Average
**IARC** - International Agency for Research on Cancer
**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association
**MARPOL** - International Convention for the Prevention of Pollution from Ships
**NZS 5433:2020** - Transport of Dangerous Goods on Land
**LD50** - Lethal Dose 50%
**EC50** - Effective Concentration 50%
**WEL** - Workplace Exposure Limit
**DNEL** - Derived No Effect Level
**POW** - Partition coefficient Octanol:Water
**vPvB** - very Persistent, very Bioaccumulative
**VOC** - (Volatile Organic Compound)
**NZIoC** - New Zealand Inventory of Chemicals
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
**ENCS** - Japanese Existing and New Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**CAS** - Chemical Abstracts Service
**ACGIH** - American Conference of Governmental Industrial Hygienists Predicted No Effect Concentration (PNEC)
**IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code
**ADG** - Australian Code for the Transport of Dangerous Goods by Road and Rail
**OECD** - Organisation for Economic Co-operation and Development
**LC50** - Lethal Concentration 50%
**ATE** - Acute Toxicity Estimate
**RPE** - Respiratory Protective Equipment
**NOEC** - No Observed Effect Concentration
**BCF** - Bioconcentration factor
**PBT** - Persistent, Bioaccumulative, Toxic

**Key literature references and sources for data**
https://echa.europa.eu/information-on-chemicals
Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

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

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

**Revision Date** 14-Jul-2023

**Revision Summary** Update to GHS format.

**This Safety Data Sheet (SDS) is prepared in accordance to and complies with the requirements of Safe Work Australia - Work Health and Safety Regulations (WHS Regulations).**

**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