

IENCES® G-Biosciences, St Louis, MO, USA | 1-800-628-7730 | 1-314-991-6034 | technical@GBiosciences.com

A Geno Technology, Inc. (USA) brand name

Safety Data Sheet

Cat. # BAQ067

Lipid Peroxidation (LPO) Assay Kit

Size: 200 tests (96 well format)





Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| SECTION 1: Id | entification of the substa | ance/mixture and of t | he company/undertaking | |
|--|--|---|-------------------------------------|---------|
| 1.1. Product ide | ntifier | | | |
| Product form | | : Substance | | |
| Substance name | | : LPO Reagent A | | |
| Chemical name | | : 1-Metil-2-Fenilindol | | |
| CAS-No. | | : 3558-24-5 | | |
| Product code | | : 624L | | |
| Product group | | : Trade product | | |
| 1.2. Relevant ide | entified uses of the substar | ice or mixture and uses | advised against | |
| 1.2.1. Relevant ide | | | | |
| 1.2.2. Uses advise | • | | | |
| No additional inform | | e elsest | | |
| Geno Technology, 9800 Page Avenue 63132-1429 Saint I T 800-628-7730 - F | Louis - United States | | | |
| | | | | |
| 1.4. Emergency Emergency numbe | telephone number r | Chemtrec 1-800-424-9300 (| USA/Canada), +1-703-527-3887 | (Inti) |
| Country | Organisation/Company | Address | Emergency number | Comment |
| United Kingdom | National Poisons Information Service (Belfast Centre) Royal Victoria Hospital | Grosvenor Road BT12 6BA Belfast | 0344 892 0111 | |
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH Birmingham | 0344 892 0111 | |
| United Kingdom | National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital | Penarth CF64 2XX Cardiff | 0344 892 0111 | |
| United Kingdom | National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh | Little France Crescent EH16 4SA Edinburgh | 0344 892 0111 | |
| United Kingdom | Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road SE14 5ER London | +44 20 7188 7188 | |
| United Kingdom | National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle | 0344 892 0111 | |

SECTION 2: Hazards identification 2.1. Classification of the substance or mixture

| Classification according to Regulation (EC) No. 1272/2008 [CLP] | |
|--|------|
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation | H335 |
| Full text of H statements : see section 16 | |

Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes skin irritation. Causes serious eye irritation.

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2.2. Label elements

| Labelling | according | to Re | aulation | (FC) | No | 1272/2008 | |
|-----------|-----------|--------|----------|------|------|-----------|-----|
| Labelling | according | to ite | guiation | | 140. | 1212/2000 | LOF |

| Labelling according to Regulation (EC) No. 1272/2 Hazard pictograms (CLP) | 008 [CLP] GHS07 |
|--|--|
| CLP Signal word | : Warning |
| Hazard statements (CLP) | : H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. |
| Precautionary statements (CLP) | P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with plenty of water. 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 CENTRE or doctor if you feel unwell. P321 - Specific treatment (see supplemental first aid instruction on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

2.3. Other hazards

No additional information available

| SECTION 3: Composition/inf 3.1. Substances | ormation on ingredients | | |
|---|-------------------------|-----|---|
| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| LPO Reagent A | (CAS-No.) 3558-24-5 | 100 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |

Full text of H-statements: see section 16

3.2. Mixtures Not applicable

SECTION 4: First aid measures

| 4.1. Description of first aid measures | |
|---|---|
| First-aid measures general | : Call a poison center or a doctor if you feel unwell. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell. |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |
| 4.2. Most important symptoms and effe | cts, both acute and delayed |
| Symptoms/effects after inhalation | : May cause respiratory irritation. |
| Symptoms/effects after skin contact | : Irritation. |
| Symptoms/effects after eye contact | : Eye irritation. |
| 4.3. Indication of any immediate medica | I attention and special treatment needed |
| Treat symptomatically. | |
| | |

| SECTION 5: Firefighting measures | |
|----------------------------------|----------------------------------|
| 5.1. Extinguishing media | |
| Suitable extinguishing media | : Water spray. Dry powder. Foam. |

| 5.2. Special hazards arising from the substa | |
|--|---|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
| 5.3. Advice for firefighters Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| SECTION 6: Accidental release measure | es |
| 6.1. Personal precautions, protective equipn | nent and emergency procedures |
| 6.1.1. For non-emergency personnel | |
| Emergency procedures | : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. |
| 6.1.2. For emergency responders | |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| 6.2. Environmental precautions Avoid release to the environment. | |
| 6.3. Methods and material for containment a | |
| Methods for cleaning up | : Mechanically recover the product. |
| Other information | : Dispose of materials or solid residues at an authorized site. |
| 6.4. Reference to other sections For further information refer to section 13. | |
| SECTION 7: Handling and storage | |
| 7.1. Precautions for safe handling Precautions for safe handling | : Use only outdoors or in a well-ventilated area. Avoid breathing |
| | dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment. |
| Hygiene measures | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |
| 7.2. Conditions for safe storage, including a Storage conditions | ny incompatibilities : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. |
| 7.3. Specific end use(s) No additional information available | |
| SECTION 8: Exposure controls/persona | I protection |
| 8.1. Control parameters | |
| No additional information available | |
| 8.2. Exposure controls Appropriate engineering controls: | |
| Ensure good ventilation of the work station. | |
| Hand protection: | |
| Protective gloves | |
| Eye protection: | |
| Safety glasses | |
| Skin and body protection: | |
| Wear suitable protective clothing | |
| Respiratory protection: | |
| In case of insufficient ventilation, wear suitable respi | ratory equipment |

Avoid release to the environment.

| SECTION 9: Physical and chemical provide and chemi | operties |
|--|---------------------|
| 9.1. Information on basic physical and che | emical properties |
| Physical state | : Solid |
| Colour | : No data available |
| Odour | : No data available |
| Odour threshold | : No data available |
| pH | : No data available |

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| Relative evaporation rate (butylacetate=1) | : No data available |
|--|---------------------|
| Melting point | : No data available |
| Freezing point | : Not applicable |
| Boiling point | : No data available |
| Flash point | : Not applicable |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : Not applicable |
| 0.0. Other information | |

9.2. Other information No additional information available

| SECTION 10: Stability and reactivity |
|--|
| 10.1. Reactivity |
| The product is non-reactive under normal conditions of use, storage and transport. |
| 10.2. Chemical stability |
| Stable under normal conditions. |
| 10.3. Possibility of hazardous reactions |
| No dangerous reactions known under normal conditions of use. |
| 10.4. Conditions to avoid |
| None under recommended storage and handling conditions (see section 7). |
| 10.5. Incompatible materials |
| No additional information available |
| 10.6. Hazardous decomposition products |
| Hazardous decomposition products. |

| 11.1. Information on toxicological ef Acute toxicity (oral) | : Not classified | |
|---|-------------------------------------|--|
| Acute toxicity (dermal) | : Not classified | |
| Acute toxicity (inhalation) | : Not classified | |
| Skin corrosion/irritation | : Causes skin irritation. | |
| Serious eye damage/irritation | : Causes serious eye irritation. | |
| Respiratory or skin sensitisation | : Not classified | |
| Germ cell mutagenicity | : Not classified | |
| Carcinogenicity | : Not classified | |
| Reproductive toxicity | : Not classified | |
| STOT-single exposure | : May cause respiratory irritation. | |
| STOT-repeated exposure | : Not classified | |
| Aspiration hazard | : Not classified | |

| SECTION 12. ECOlogical information | |
|-------------------------------------|--|
| 12.1. Toxicity | |
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Acute aquatic toxicity | : Not classified |
| Chronic aquatic toxicity | : Not classified |
| 12.2. Persistence and degradability | |
| No additional information available | |
| 12.3. Bioaccumulative potential | |
| No additional information available | |
| | |

12.4. Mobility in soil No additional information available

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| 12.5. Results of PBT and vPvB assessment | |
|--|--|
| No additional information available | |
| 12.6. Other adverse effects | |
| No additional information available | |
| SECTION 13: Disposal considerations | |
| 13.1. Waste treatment methods | |
| Waste treatment methods | : Waste treatment methods. |
| SECTION 14: Transport information | |
| In accordance with ADR / RID / IMDG / IATA / ADN | |
| 14.1. UN number | |
| UN-No. (ADR) | : Not applicable |
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN) | : Not applicable |
| UN-No. (RID) | : Not applicable |
| 14.2. UN proper shipping name | |
| Proper Shipping Name (ADR) | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN) | : Not applicable |
| Proper Shipping Name (RID) | : Not applicable |
| 14.3. Transport hazard class(es) | |
| ADR | |
| Transport hazard class(es) (ADR) | : Not applicable |
| IMDG | |
| Transport hazard class(es) (IMDG) | : Not applicable |
| ΙΑΤΑ | |
| Transport hazard class(es) (IATA) | : Not applicable |
| ADN | |
| Transport hazard class(es) (ADN) | : Not applicable |
| RID | · · · · · · · · · · · · · · · · · · · |
| Transport hazard class(es) (RID) | : Not applicable |
| 14.4. Packing group | |
| Packing group (ADR) | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Packing group (ADN) | : Not applicable |
| Packing group (RID) | : Not applicable |
| 14.5. Environmental hazards | ····· •••••••••••••••••••••••••••••••• |
| Dangerous for the environment | : No |
| Marine pollutant | : No |
| Other information | : No supplementary information available |
| 14.6. Special precautions for user | |
| Overland transport | |
| Not applicable | |
| Transport by sea | |
| Not applicable | |
| | |
| Air transport | |
| Not applicable | |
| Inland waterway transport Not applicable | |
| Rail transport | |
| Not applicable | |
| 14.7. Transport in bulk according to Annex I | l of Marpol and the IBC Code |
| Not applicable | |
| | EN (English) 5/6 |

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

LPO Reagent A is not on the REACH Candidate List

LPO Reagent A is not on the REACH Annex XIV List

LPO Reagent A is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

LPO Reagent A is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Full text of H- and EUH-statements: | | |
|-------------------------------------|--|--|
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 | |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 | |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation | |
| H315 | Causes skin irritation. | |
| H319 | Causes serious eye irritation. | |
| H335 | May cause respiratory irritation. | |

Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



LPO Reagent B Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| 1.1. Product ide Product form | | | <u>ne company/undertaking</u> | | |
|--|---|---|--|-------------------|--|
| Draduct form | entitier | | | | |
| | | : Substance | | | |
| Substance name | | : LPO Reagent B | | | |
| EC Index-No. : | | : 607-145-00-4 | : 607-145-00-4 | | |
| EC-No. | | : 200-898-6 | | | |
| CAS-No. | | : 75-75-2 | | | |
| Product code | | : 625L | | | |
| Type of product | | : Pure substance | | | |
| Formula | | : CH4O3S | | | |
| Synonyms | | : methane sulfonic acid / methane sulphonic acid / methylsulfonic acid / MMS (=methane sulfonic acid) / MSA (=methane sulfonic acid) / WSQ1 | | | |
| Product group | | : Trade product | | | |
| BIG No | | 14333 | | | |
| | entified uses of the substan | | advised against | | |
| I.2.1. Relevant id | entified uses | | | | |
| Jse of the substan | ice/mixture | : Solvent Catalyst Industrial use: intermedia | ite product | | |
| 1.2.2. Uses advise No additional inform | • | a abaat | | | |
| 53132-1429 Saint Г 800-628-7730 - I | | | | | |
| Г 800-628-7730 - I echnical@GBiosc | = 314-991-1504 iences.com - www.GBiosciences. telephone number | | USA/Canada), +1-703-527-3887 | (Intl) | |
| F 800-628-7730 - I echnical@GBiosc 1.4. Emergency Emergency numbe | = 314-991-1504 iences.com - www.GBiosciences. telephone number | | USA/Canada), +1-703-527-3887 Emergency number | (Intl) Comment | |
| F 800-628-7730 - I echnical@GBiosc 1.4. Emergency Emergency numbe Country | = 314-991-1504 iences.com - www.GBiosciences. telephone number | Chemtrec 1-800-424-9300 (| | | |
| Γ 800-628-7730 - Ι echnical@GBiosc <mark>1.4. Emergency</mark> | 314-991-1504 iences.com - www.GBiosciences. telephone number er Organisation/Company National Poisons Information Service (Belfast Centre) | Chemtrec 1-800-424-9300 (Address Grosvenor Road | Emergency number | | |
| F 800-628-7730 - I echnical@GBiosc I.4. Emergency Emergency numbe Country United Kingdom | 314-991-1504 iences.com - www.GBiosciences. telephone number organisation/Company National Poisons Information Service (Belfast Centre) Royal Victoria Hospital National Poisons Information Service (Birmingham Centre) | Chemtrec 1-800-424-9300 (Address Grosvenor Road BT12 6BA Belfast Dudley Road | Emergency number 0344 892 0111 | | |
| F 800-628-7730 - I echnical@GBiosc I.4. Emergency Emergency numbe Country United Kingdom United Kingdom | 314-991-1504 iences.com - www.GBiosciences. telephone number organisation/Company National Poisons Information Service (Belfast Centre) Royal Victoria Hospital National Poisons Information Service (Birmingham Centre) City Hospital National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough | Chemtrec 1-800-424-9300 (Address Grosvenor Road BT12 6BA Belfast Dudley Road B18 7QH Birmingham Penarth | Emergency number 0344 892 0111 0344 892 0111 | | |
| ⁻ 800-628-7730 - I echnical@GBiosc I.4. Emergency Emergency numbe Country United Kingdom United Kingdom | 314-991-1504 iences.com - www.GBiosciences. telephone number organisation/Company National Poisons Information Service (Belfast Centre) Royal Victoria Hospital National Poisons Information Service (Birmingham Centre) City Hospital National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital National Poisons Information Service Edinburgh | Chemtrec 1-800-424-9300 (Address Grosvenor Road BT12 6BA Belfast Dudley Road B18 7QH Birmingham Penarth CF64 2XX Cardiff Little France Crescent | Emergency number 0344 892 0111 0344 892 0111 0344 892 0111 0344 892 0111 | | |

| SECTION 2: Hazards identification | | |
|--|---------|--|
| 2.1. Classification of the substance or mixture | | |
| Classification according to Regulation (EC) No. 1272/200 | 8 [CLP] | |
| Skin corrosion/irritation, Category 1B | H314 | |
| Serious eye damage/eye irritation, Category 1 | H318 | |
| Full text of H statements : see section 16 | | |

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Adverse physicochemical, human health and environmental effects Causes severe skin burns and eye damage. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS05 CLP Signal word : Danger Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage. Precautionary statements (CLP) : P280 - Wear protective gloves, protective clothing, eye protection, face protection. P260 - Do not breathe vapours, mist. P264 - Wash hands thoroughly after handling. P310 - Immediately call a POISON CENTER or doctor. P321 - Specific treatment (see supplemental first aid instruction on this label). P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P302+P352 - IF ON SKIN: Wash with plenty of water. P361+P364 - Take off immediately all contaminated clothing and wash it before reuse. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

| SECTION 3: Composition/informat | ion on ingredients | | |
|---|---|---|---|
| 3.1. Substances Substance type | : Mono-constituent | | |
| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| LPO Reagent B | (CAS-No.) 75-75-2 (EC-No.) 200-898-6 (EC Index-No.) 607-145-00-4 | 100 | Skin Corr. 1B, H314 Eye Dam. 1, H318 |
| Full text of H-statements: see section 16 | | | |
| 3.2. Mixtures | | | |
| Not applicable | | | |
| SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general | Victim conscious with laboured brea | ion or oxygen. C athing: half-seate nt asphyxia/aspi). Keep watching al strain. Depend | ardiac arrest: perform resuscitation. ed. Victim in shock: on his back with ration pneumonia. Prevent cooling by the victim. Give psychological aid. ing on the victim's condition: |
| First-aid measures after skin contact | : Wash immediately with lots of wate (chemical) neutralizing agents. Ren | r (15 minutes)/sh nove clothing wh th sterile bandag | nower. Soap may be used. Do not apply ile washing. Do not remove clothing if it le. Consult a doctor/medical service. If |
| First-aid measures after eye contact | | ater for 15 minute | es. Remove contact lenses, if present ralizing agents. Take victim to an |
| First-aid measures after ingestion | : Rinse mouth with water. Immediate induce vomiting. Do not give activat doctor/hospital. Do not give chemic service. Call Poison Information Ce quantities: immediately to hospital. | ed charcoal. Tal al antidote. Imme | ke the container/vomit to the ediately consult a doctor/medical |

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| 4.2. Most important symptoms and effect | s, both acute and delayed |
|--|--|
| Symptoms/effects after inhalation | : EXPOSURE TO HIGH CONCENTRATIONS: Corrosion of the upper respiratory tract. Headache. Respiratory difficulties. FOLLOWING SYMPTOMS MAY APPEAR LATER: Possible laryngeal spasm/oedema. Risk of lung oedema. Lung tissue affection/degeneration. |
| Symptoms/effects after skin contact | : Caustic burns/corrosion of the skin. |
| Symptoms/effects after eye contact | : Corrosion of the eye tissue. |
| Symptoms/effects after ingestion | : Nausea. Vomiting. Burns to the gastric/intestinal mucosa. |
| 4.3 Indication of any immediate medical | attention and special treatment peeded |

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

| SECTION 5: Firefighting measures | |
|--|--|
| 5.1. Extinguishing media | |
| Suitable extinguishing media | : Quick-acting ABC powder extinguisher. Quick-acting BC powder extinguisher. Quick-acting class B foam extinguisher. Quick-acting CO2 extinguisher. Class B foam (alcohol-resistant). Water spray if puddle cannot expand. |
| Unsuitable extinguishing media | : Water (quick-acting extinguisher, reel); risk of puddle expansion. Water; risk of puddle expansion. |
| 5.2. Special hazards arising from the substa | ince or mixture |
| Fire hazard | : DIRECT FIRE HAZARD: Combustible. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard. |
| Hazardous decomposition products in case of fire | : On heating/burning: release of toxic and corrosive gases/vapours (sulphur oxides, carbon monoxide - carbon dioxide). |
| 5.3. Advice for firefighters | |
| Precautionary measures fire | : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows. |
| Firefighting instructions | : Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it. |
| Protection during firefighting | : Heat/fire exposure: compressed air/oxygen apparatus. |

| SECTION 6: Accidental release me 6.1. Personal precautions, protective e | |
|---|---|
| 6.1.1. For non-emergency personnel | |
| Protective equipment | : Gloves. Face-shield. Corrosion-proof suit. Large spills/in enclosed spaces: compressed air apparatus. Large spills/in enclosed spaces: gas-tight suit. |
| Emergency procedures | : Mark the danger area. No naked flames. Wash contaminated clothes. Large spills/in confined spaces: consider evacuation. |
| 6.1.2. For emergency responders | |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| 6.2. Environmental precautions | |
| Prevent soil and water pollution. Prevent sprea | iding in sewers. |
| 6.3. Methods and material for containn | nent and cleaning up |
| For containment | : Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Take account of toxic/corrosive precipitation water. Heat exposure: dilute toxic gas/vapour with water spray. |
| Methods for cleaning up | : Take up liquid spill into absorbent material, e.g.: dry powdered limestone or soda ash. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling. |
| Other information | : Dispose of materials or solid residues at an authorized site. |
| 6.4. Reference to other sections | |
| For further information refer to section 13. | |

| SECTION 7: Handling and storage 7.1. Precautions for safe handling | |
|---|--|
| Precautions for safe handling | : Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep container tightly closed. |
| Hygiene measures | : Observe strict hygiene. |

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| 7.2. Conditions for safe storage, includi | ng any incompatibilities |
|---|--|
| Storage conditions | : Store locked up. Store in a well-ventilated place. Keep cool. |
| Heat and ignition sources | : KEEP SUBSTANCE AWAY FROM: heat sources. |
| Information on mixed storage | : KEEP SUBSTANCE AWAY FROM: reducing agents. (strong) bases. metals. |
| Storage area | : Store in a dry area. Keep locked up. Provide for a tub to collect spills. Meet the legal requirements. |
| Special rules on packaging | SPECIAL REQUIREMENTS: closing. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers. |
| Packaging materials | : MATERIAL TO AVOID: steel. lead. iron. copper. bronze. |
| 7.3. Specific end use(s) | |
| | |

No additional information available

| SECTION 8: Exposure controls/personal protection |
|--|
| 8.1. Control parameters |
| No additional information available |
| 8.2. Exposure controls |
| Appropriate engineering controls: |
| Ensure good ventilation of the work station. |
| Materials for protective clothing: |
| GIVE GOOD RESISTANCE: neoprene. PVC |
| Hand protection: |
| Gloves |
| Eye protection: |
| Face shield |
| Skin and body protection: |
| Corrosion-proof clothing |
| Respiratory protection: |
| High gas/vapour concentration: full face mask with filter type B |

Environmental exposure controls:

Avoid release to the environment.

| SECTION 9: Physical and chemical pro | perties |
|---|--|
| 9.1. Information on basic physical and cher | |
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Molecular mass | : 96.11 g/mol |
| Colour | : Liquid: colourless. Solid: white. |
| Odour | : Characteristic odour. |
| Odour threshold | : No data available |
| рН | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : 20 °C |
| Freezing point | : No data available |
| Boiling point | : 167 °C (13 hPa) |
| Flash point | : 188 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : < 0.001 hPa (20 °C) |
| Relative vapour density at 20 °C | : 3.3 |
| Relative density | : 1.5 |
| Density | : 1480 kg/m³ |
| Solubility | : Exothermically soluble in water. Soluble in ethanol. Soluble in ether. |
| | Water: complete |
| Log Pow | : -1.22 |
| | |

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| Viscosity, kinematic | : No data available |
|------------------------|---|
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |
| 9.2. Other information | |
| Other properties | : Gas/vapour heavier than air at 20°C. Slightly volatile. |
| | |

| SECTION 10: Stability and reactivity |
|--|
| 10.1. Reactivity |
| The product is non-reactive under normal conditions of use, storage and transport. |
| 10.2. Chemical stability |
| Stable under normal conditions. |
| 10.3. Possibility of hazardous reactions |
| No dangerous reactions known under normal conditions of use. |
| 10.4. Conditions to avoid |
| None under recommended storage and handling conditions (see section 7). |
| 10.5. Incompatible materials |
| No additional information available |
| 10.6. Hazardous decomposition products |
| Hazardous decomposition products. |

| SECTION 11: Toxicological information | |
|--|--|
| 11.1. Information on toxicological effects | |
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |
| Skin corrosion/irritation | : Causes severe skin burns and eye damage. |
| Serious eye damage/irritation | : Causes serious eye damage. |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Potential adverse human health effects and symptoms | : Causes severe skin burns. Causes serious eye damage. |

| SECTION 12: Ecological information | |
|--|--|
| 12.1. Toxicity | |
| Ecology - general : | Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008. |
| Ecology - air : | Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). |
| Ecology - water : | Harmful to crustacea. Harmful to fishes. Mild water pollutant (surface water). Harmful to algae. |
| Acute aquatic toxicity : | Not classified |
| Chronic aquatic toxicity : | Not classified |
| 12.2. Persistence and degradability | |
| LPO Reagent B (75-75-2) | |
| Persistence and degradability | Readily biodegradable in water. |
| 12.3. Bioaccumulative potential | |
| LPO Reagent B (75-75-2) | |
| Log Pow | -1.22 |
| Bioaccumulative potential | Not bioaccumulative. |
| 12.4. Mobility in soil | |
| No additional information available | |
| 12.5. Results of PBT and vPvB assessment | |
| No additional information available | |

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12.6. Other adverse effects

No additional information available

| SECTION 13: Disposal considerations 13.1. Waste treatment methods Waste treatment methods | : Waste treatment methods. |
|---|--|
| Product/Packaging disposal recommendations | : Do not discharge into surface water. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. |
| Additional information | : Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. |
| European List of Waste (LoW) code | : 15 01 10* - packaging containing residues of or contaminated by dangerous substances 16 03 05* - organic wastes containing dangerous substances |

| SECTION 14: Transport information | |
|--|--|
| In accordance with ADR / RID / IMDG / IATA / ADN | |
| 14.1. UN number | |
| UN-No. (ADR) | : UN 2586 |
| UN-No. (IMDG) | : UN 3265 |
| UN-No. (IATA) | : UN 3265 |
| UN-No. (ADN) | : UN 2586 |
| UN-No. (RID) | : UN 2586 |
| 14.2. UN proper shipping name | |
| Proper Shipping Name (ADR) | : Alkylsulphonic acids, liquid |
| Proper Shipping Name (IMDG) | : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
| Proper Shipping Name (IATA) | : Corrosive liquid, acidic, organic, n.o.s. |
| Proper Shipping Name (ADN) | : Alkylsulphonic acids, liquid |
| Proper Shipping Name (RID) | : Alkylsulphonic acids, liquid |
| Transport document description (ADR) | : UN 2586 Alkylsulphonic acids, liquid, 8, III, (E) |
| Transport document description (IMDG) | : UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II |
| Transport document description (IATA) | : UN 3265 Corrosive liquid, acidic, organic, n.o.s., 8, II |
| Transport document description (ADN) | : UN 2586 Alkylsulphonic acids, liquid, 8, III |
| Transport document description (RID) | : UN 2586 Alkylsulphonic acids, liquid, 8, III |
| 14.3. Transport hazard class(es) | |
| ADR | |
| Transport hazard class(es) (ADR) | : 8 |
| Danger labels (ADR) | : 8 |



: 8

: 8

ΙΑΤΑ

IMDG

Transport hazard class(es) (IATA) Hazard labels (IATA)

Transport hazard class(es) (IMDG)

Danger labels (IMDG)

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| | 8 |
|---|--|
| | |
| ADN | |
| Transport hazard class(es) (ADN) | : 8 |
| Danger labels (ADN) | : 8 |
| | · |
| | |
| | |
| | 8 |
| RID | N. |
| Transport hazard class(es) (RID) | : 8 |
| Danger labels (RID) | : 8 |
| | |
| | |
| | |
| | |
| | |
| 14.4. Packing group | |
| Packing group (ADR) | : III |
| Packing group (IMDG) | |
| Packing group (IATA) | |
| Packing group (ADN) | |
| Packing group (RID) | : 111 |
| 14.5. Environmental hazards Dangerous for the environment | : No |
| Marine pollutant | : No |
| Other information | : No supplementary information available |
| 14.6. Special precautions for user | |
| Overland transport | |
| Transport regulations (ADR) | : Subject |
| Classification code (ADR) | : C3 |
| Hazard identification number (Kemler No.) | : 80 |
| Orange plates | 80 |
| | |
| | 2586 |
| Tunnel restriction code (ADR) | : E |
| EAC code | : E : 2X |
| | |
| Transport by sea Transport regulations (IMDG) | : Subject |
| Special provisions (IMDG) | : 274 |
| Packing instructions (IMDG) | : P001 |
| IBC packing instructions (IMDG) | : IBC02 |
| Tank instructions (IMDG) | : T11 |
| Tank special provisions (IMDG) | : TP2, TP27 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-B |
| Stowage category (IMDG) | : B |
| Stowage and handling (IMDG) | : SW2 |
| Properties and observations (IMDG) | : Causes burns to skin, eyes and mucous membranes. |
| Air transport | |
| Transport regulations (IATA) | : Subject to the provisions |
| | |
| PCA Excepted quantities (IATA) | : E2 |

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| | , |
|--|------------|
| PCA limited quantity max net quantity (IATA) | : 0.5L |
| PCA packing instructions (IATA) | : 851 |
| PCA max net quantity (IATA) | : 1L |
| CAO packing instructions (IATA) | : 855 |
| CAO max net quantity (IATA) | : 30L |
| Special provisions (IATA) | : A3, A803 |
| ERG code (IATA) | : 8L |
| Inland waterway transport | |
| Classification code (ADN) | : C3 |
| Carriage permitted (ADN) | : T |
| Rail transport | |
| Transport regulations (RID) | : Subject |
| Classification code (RID) | : C3 |
| | |

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

LPO Reagent B is not on the REACH Candidate List

LPO Reagent B is not on the REACH Annex XIV List

LPO Reagent B is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

LPO Reagent B is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the Canadian DSL (Domestic Substances List)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1B |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |

Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



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| SECTION 1: Identification of the substan | nce/mixture and of the company | /undertakin | a |
|---|---|-----------------|---|
| 1.1. Product identifier | | | 3 |
| Product form | : Mixture | | |
| Product name | : LPO Solvent | | |
| Product code | : 626L | | |
| Product group | : Trade product | | |
| 1.2. Relevant identified uses of the substance | e or mixture and uses advised aga | inst | |
| 1.2.1. Relevant identified uses | | | |
| No additional information available | | | |
| | | | |
| 1.2.2. Uses advised against No additional information available | | | |
| 1.3. Details of the supplier of the safety data | choot | | |
| Geno Technology, Inc./ G-Biosciences | Slieet | | |
| 9800 Page Avenue | | | |
| 63132-1429 Saint Louis - United States T 800-628-7730 - F 314-991-1504 | | | |
| technical@GBiosciences.com - www.GBiosciences.c | om | | |
| 1.4. Emergency telephone number | | | |
| | hemtrec 1-800-424-9300 (USA/Canada), | +1-703-527-388 | 7 (Intl) |
| | | | |
| SECTION 2: Hazards identification | | | |
| 2.1. Classification of the substance or mixtu | re | | |
| Classification according to Regulation (EC) No. 12 | 272/2008 [CLP] | | |
| Not classified | | | |
| | | | |
| | | | |
| Adverse physicochemical, human health and envi | | | o irritation |
| Causes damage to organs. Toxic if inhaled. Toxic if st 2.2. Label elements | wallowed. Harmlul in contact with skin. Ca | uses serious ey | e imation. |
| | | | |
| Labelling according to Regulation (EC) No. 1272/2 | 008 [CLP] | | |
| No labelling applicable | | | |
| 2.3. Other hazards No additional information available | | | |
| | | | |
| SECTION 3: Composition/information of | n ingradients | | |
| 3.1. Substances | ringredients | | |
| Not applicable | | | |
| 3.2. Mixtures | | | |
| Name | Product identifier | % | Classification according to |
| | Froduct identifier | /0 | Regulation (EC) No. |
| | | | 1272/2008 [CLP] |
| acetonitrile | (CAS No.) 75.05.9 | 50 - 75 | |
| acetonitille | (CAS-No.) 75-05-8 (EC-No.) 200-835-2 | 50 - 75 | Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 |
| | (EC Index-No.) 608-001-00-3 | | Acute Tox. 3 (Dermal), H311 |
| | | | Acute Tox. 4 (Inhalation), H332 |
| | | | Acute Tox. 4 (Inhalation:vapour), H332 |
| | | | Eye Irrit. 2, H319 |
| methanol | (CAS-No.) 67-56-1 | 25 - 50 | Flam. Liq. 2, H225 |
| | (EC-No.) 200-659-6 | 20-00 | Acute Tox. 3 (Oral), H301 |
| | (EC Index-No.) 603-001-00-X | | Acute Tox. 3 (Inhalation), H331 |
| | | | Acute Tox. 3 (Inhalation:vapour), |
| | | | H331 STOT SE 1, H370 |
| | | | |
| Specific concentration limits: | | | |
| Name | Product identifier | Specific cor | ncentration limits |
| methanol | (CAS-No.) 67-56-1 | | STOT SE 2, H371 |
| | (EC-No.) 200-659-6 | | 0) STOT SE 1, H370 |
| | (EC Index-No.) 603-001-00-X | | |
| l | | 1 | |

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Full text of H-statements: see section 16

| SECTION 4: First aid measures | | |
|---|---|--|
| 4.1. Description of first aid measures | · Call a shusisian issue diatalu | |
| First-aid measures general | : Call a physician immediately. | |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Call a doctor. | |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. | |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. | |
| First-aid measures after ingestion | : Rinse mouth. Call a physician immediately. | |
| 4.2. Most important symptoms and effect | | |
| Symptoms/effects after eye contact | : Eye irritation. | |
| 4.3. Indication of any immediate medical Treat symptomatically. | | |
| | | |
| SECTION 5: Firefighting measures | | |
| 5.1. Extinguishing media | | |
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. | |
| 5.2. Special hazards arising from the sub | | |
| Hazardous decomposition products in case of fire | e : Toxic fumes may be released. | |
| 5.3. Advice for firefighters Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained | |
| | breathing apparatus. Complete protective clothing. | |
| SECTION 6: Accidental release meas | | |
| 6.1. Personal precautions, protective equ | | |
| | | |
| 6.1.1. For non-emergency personnel Emergency procedures | : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact | |
| | with skin, eyes and clothing. | |
| 64.2. For amoreonal reasonables | | |
| 6.1.2. For emergency responders Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information | |
| | refer to section 8: "Exposure controls/personal protection". | |
| 6.2. Environmental precautions | | |
| Avoid release to the environment. | | |
| 6.3. Methods and material for containment Methods for cleaning up | : Take up liquid spill into absorbent material. | |
| Other information | : Dispose of materials or solid residues at an authorized site. | |
| 6.4. Reference to other sections | | |
| For further information refer to section 13. | | |
| | | |
| SECTION 7: Handling and storage | | |
| 7.1. Precautions for safe handling | | |
| Precautions for safe handling | : Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. | |
| Hygiene measures | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. | |
| 7.2. Conditions for safe storage, includin | | |
| Storage conditions | : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. | |
| 7.3. Specific end use(s) | | |
| No additional information available | | |
| SECTION 8: Exposure controls/perso | nal protection | |
| 8.1. Control parameters | | |
| acetonitrile (75-05-8) | | |
| | | |
| EU - Occupational Exposure Limits | | |

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| WEL TWA (ppm) | 40 ppm |
|---|-----------------------|
| WEL STEL (mg/m³) | 102 mg/m ³ |
| WEL STEL (ppm) | 60 ppm |
| methanol (67-56-1) | |
| EU - Occupational Exposure Limits | |
| IOELV TWA (mg/m ³) | 260 mg/m ³ |
| IOELV TWA (ppm) | 200 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (mg/m³) | 266 mg/m ³ |
| WEL TWA (ppm) | 200 ppm |
| WEL STEL (mg/m ³) | 333 mg/m ³ |
| WEL STEL (ppm) | 250 ppm |
| 8.2. Exposure controls | |

Appropriate engineering controls:

Ensure good ventilation of the work station.

| Hand protection: | |
|--|--|
| Protective gloves | |
| Eye protection: | |
| Safety glasses | |
| Skin and body protection: | |
| Wear suitable protective clothing | |
| Respiratory protection: | |
| [In case of inadequate ventilation] wear respiratory protection. | |

Environmental exposure controls: Avoid release to the environment.

| Viscosity, dynamic | : No data available |
|--|---------------------|
| Viscosity, kinematic | : No data available |
| Log Pow | : No data available |
| Solubility | : No data available |
| Relative density | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Vapour pressure | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Decomposition temperature | : No data available |
| Auto-ignition temperature | : No data available |
| Flash point | : > 70 °C |
| Boiling point | : No data available |
| Freezing point | : No data available |
| Melting point | : Not applicable |
| Relative evaporation rate (butylacetate=1) | : No data available |
| рН | : No data available |
| Odour threshold | : No data available |
| Odour | : No data available |
| Colour | : No data available |
| Physical state | : Liquid |

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

| Deorion to: Otability and reactivity |
|--|
| 10.1. Reactivity |
| The product is non-reactive under normal conditions of use, storage and transport. |
| 10.2. Chemical stability |
| Stable under normal conditions. |
| 10.3. Possibility of hazardous reactions |
| No dangerous reactions known under normal conditions of use. |
| 10.4. Conditions to avoid |
| None under recommended storage and handling conditions (see section 7). |
| 10.5. Incompatible materials |
| No additional information available |
| 10.6. Hazardous decomposition products |
| Unerrow de comme de Rein anna de Ar |

Hazardous decomposition products.

| SECTION 11: Toxicological information 11.1. Information on toxicological effects | |
|---|---|
| | Not classified |
| Acute toxicity (dermal) : | Not classified |
| Acute toxicity (inhalation) : | Not classified |
| acetonitrile (75-05-8) | |
| LD50 oral | 617 mg/kg bodyweight (Equivalent or similar to OECD 401, Mouse, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | 980 mg/kg (Rabbit) |

methanol (67-56-1) 1187 - 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Weight of evidence, LD50 oral rat Aqueous solution, Oral, 7 day(s)) LD50 dermal rabbit 17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal) LC50 inhalation rat (mg/l) 128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours)) Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

| SECTION 12: Ecological information | |
|------------------------------------|---|
| 12.1. Toxicity | |
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Acute aquatic toxicity | : Not classified |
| Chronic aquatic toxicity | : Not classified |
| acetonitrile (75-05-8) | |
| LC50 fish 1 | 1640 mg/l (LC50; Other; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) |
| EC50 Daphnia 1 | > 1000 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Semi-static system; Fresh water; Experimental value) |
| ErC50 (algae) | 9696 mg/l (ISO 10253, 72 h, Phaeodactylum, Static system, Salt water, Experimental value, GLP) |

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| methanol (67-56-1) | |
|-------------------------------------|--|
| LC50 fish 1 | 15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal) |
| EC50 Daphnia 1 | 18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect) |
| ErC50 (algae) | 22000 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value) |
| 12.2. Persistence and degradability | |
| acetonitrile (75-05-8) | |
| Persistence and degradability | Readily biodegradable in water. No (test)data on mobility of the substance available. |
| Biochemical oxygen demand (BOD) | 0.17 g O ₂ /g substance |
| ThOD | 3.12 g O ₂ /g substance |

| methanol (67-56-1) | |
|---------------------------------|--|
| Persistence and degradability | Readily biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 0.6 - 1.12 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.42 g O ₂ /g substance |
| ThOD | 1.5 g O₂/g substance |
| 12.3. Bioaccumulative potential | |
| acetonitrile (75-05-8) | |
| BCF other aquatic organisms 1 | 3.162 (BCF; BCFWIN) |
| Log Pow | 0.29 (Weight of evidence approach; Equivalent or similar to OECD 107; 25 $^{\circ}$ C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

| methanol (67-56-1) | |
|---------------------------|---|
| BCF fish 1 | 1 - 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value) |
| Log Pow | -0.77 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| 12.4. Mobility in soil | |
| acetonitrile (75-05-8) | |
| Surface tension | 0.029 N/m (20 °C) |
| Log Koc | 0.65 (log Koc, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

| methanol (67-56-1) | |
|--|---|
| Surface tension | 0.023 N/m (20 °C) |
| Log Koc | 0.088 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile in soil. |
| 12.5. Results of PBT and vPvB assessment | |
| Component | |
| acetonitrile (75-05-8) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| methanol (67-56-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 12.6. Other adverse effects No additional information available | |

| SECTION 13: Disposal considerations | |
|-------------------------------------|----------------------------|
| 13.1. Waste treatment methods | |
| Waste treatment methods | : Waste treatment methods. |

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| SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN | |
|---|--|
| 14.1. UN number | |
| UN-No. (ADR) | : Not applicable |
| UN-No. (IMDG) | : UN 2810 |
| UN-No. (IATA) | : UN 2810 |
| UN-No. (ADN) | : Not applicable |
| UN-No. (RID) | : Not applicable |
| 14.2. UN proper shipping name | |
| Proper Shipping Name (ADR) | : Not applicable |
| Proper Shipping Name (IMDG) | : TOXIC LIQUID, ORGANIC, N.O.S. |
| Proper Shipping Name (IATA) | : Toxic liquid, organic, n.o.s. |
| Proper Shipping Name (ADN) | : Not applicable |
| Proper Shipping Name (RID) | : Not applicable |
| Transport document description (IMDG) | : UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (Methanol), 6.1, III |
| Transport document description (IATA) | : UN 2810 Toxic liquid, organic, n.o.s. (Methanol), 6.1, III |
| 14.3. Transport hazard class(es) | |
| ADR | |
| Transport hazard class(es) (ADR) | : Not applicable |
| IMDG | |
| Transport hazard class(es) (IMDG) | : 6.1 |
| Danger labels (IMDG) | : 6.1 |
| | |
| ΙΑΤΑ | |
| Transport hazard class(es) (IATA) | : 6.1 |
| Hazard labels (IATA) | : 6.1 |
| | 6 |
| ADN | |
| Transport hazard class(es) (ADN) | : Not applicable |
| RID | |
| Transport hazard class(es) (RID) | : Not applicable |
| 14.4. Packing group | |
| Packing group (ADR) | : Not applicable |
| Packing group (IMDG) | : III |
| Packing group (IATA) | |
| Packing group (ADN) | : Not applicable |
| Packing group (RID) | : Not applicable |
| 14.5. Environmental hazards Dangerous for the environment | : No |
| Marine pollutant | : No |
| Other information | : No supplementary information available |
| 14.6. Special precautions for user | |
| Overland transport | |
| Not applicable | |
| Transport by sea | |
| Special provisions (IMDG) | : 223, 274 |
| Packing instructions (IMDG) | : P001, LP01 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T7 |
| 、 | |

Safety Data Sheet

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| Tank special provisions (IMDG) | : TP1, TP28 |
|--|---|
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-A |
| Stowage category (IMDG) | : A |
| Stowage and handling (IMDG) | : SW2 |
| Properties and observations (IMDG) | : Toxic if swallowed, by skin contact or by inhalation. |
| Air transport | |
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y642 |
| PCA limited quantity max net quantity (IATA) | : 2L |
| PCA packing instructions (IATA) | : 655 |
| PCA max net quantity (IATA) | : 60L |
| CAO packing instructions (IATA) | : 663 |
| CAO max net quantity (IATA) | : 220L |
| Special provisions (IATA) | : A3, A4, A137 |
| ERG code (IATA) | : 6L |
| Inland waterway transport | |

Inland waterway transport

Not applicable

Rail transport Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
| Acute Tox. 3 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| STOT SE 1 | Specific target organ toxicity — Single exposure, Category 1 |
| STOT SE 2 | Specific target organ toxicity — Single exposure, Category 2 |
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |

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| H302 | Harmful if swallowed. |
|------|--------------------------------|
| H311 | Toxic in contact with skin. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H370 | Causes damage to organs. |
| H371 | May cause damage to organs. |

Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| SECTION 1: Identification of the sul 1.1. Product identifier | bstance/mixture and of the co | impany/undertal | king |
|--|---|--|---|
| Product form | : Substance | | |
| Substance name | : LPO Standard | | |
| Product code | : 627L | | |
| Product group | : Trade product | | |
| I.2. Relevant identified uses of the sub | stance or mixture and uses advis | ed against | |
| I.2.1. Relevant identified uses | | | |
| No additional information available | | | |
| | | | |
| 1.2.2. Uses advised against No additional information available | | | |
| 1.3. Details of the supplier of the safety | data sheet | | |
| Geno Technology, Inc./ G-Biosciences | | | |
| 9800 Page Avenue | | | |
| 63132-1429 Saint Louis - United States T 800-628-7730 - F 314-991-1504 | | | |
| technical@GBiosciences.com - www.GBioscien | nces.com | | |
| 1.4. Emergency telephone number | | | |
| Emergency number | : Chemtrec 1-800-424-9300 (USA/C | anada), +1-703-527 - | 3887 (Intl) |
| SECTION 2: Hazards identification | | | |
| 2.1. Classification of the substance or r | nixture | | |
| Classification according to Regulation (EC) | | | |
| Not classified | | | |
| To our knowledge, this product does not preser | | ed in accordance wit | h good occupational hygiene and saf |
| Adverse physicochemical, human health and To our knowledge, this product does not preser practice. 2.2. Label elements Labelling according to Regulation (EC) No. 1 | nt any particular risk, provided it is handl | ed in accordance wit | h good occupational hygiene and safe |
| To our knowledge, this product does not preser practice. 2.2. Label elements Labelling according to Regulation (EC) No. 1 No labelling applicable | nt any particular risk, provided it is handl | ed in accordance wit | h good occupational hygiene and safe |
| To our knowledge, this product does not preservatice. 2.2. Label elements Labelling according to Regulation (EC) No. 1 No labelling applicable 2.3. Other hazards | nt any particular risk, provided it is handl | ed in accordance wit | h good occupational hygiene and safe |
| To our knowledge, this product does not preser practice. 2.2. Label elements Labelling according to Regulation (EC) No. 1 No labelling applicable | nt any particular risk, provided it is handl | ed in accordance wit | h good occupational hygiene and safe |
| To our knowledge, this product does not preserver practice. 2.2. Label elements Labelling according to Regulation (EC) No. 1 No labelling applicable 2.3. Other hazards No additional information available | nt any particular risk, provided it is handl | ed in accordance wit | h good occupational hygiene and safe |
| To our knowledge, this product does not preservatice. 2.2. Label elements Labelling according to Regulation (EC) No. 1 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information | nt any particular risk, provided it is handl | ed in accordance wit | h good occupational hygiene and safe |
| To our knowledge, this product does not preservatice. 2.2. Label elements Labelling according to Regulation (EC) No. 1 No labelling applicable 2.3. Other hazards | nt any particular risk, provided it is handl | ed in accordance wit | |
| To our knowledge, this product does not preservatice. 2.2. Label elements Labelling according to Regulation (EC) No. 1 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information 3.1. Substances | nt any particular risk, provided it is handl 1272/2008 [CLP] on on ingredients | | Classification according to Regulation (EC) No. |
| To our knowledge, this product does not preservatice. 2.2. Label elements Labelling according to Regulation (EC) No. 1 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/informatio 3.1. Substances Name LPO Standard | nt any particular risk, provided it is handl 1272/2008 [CLP] on on ingredients | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| To our knowledge, this product does not preservactice. 2.2. Label elements Labelling according to Regulation (EC) No. 1 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/informatio 3.1. Substances Name LPO Standard 3.2. Mixtures | nt any particular risk, provided it is handl 1272/2008 [CLP] on on ingredients | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| To our knowledge, this product does not preservactice. 2.2. Label elements abelling according to Regulation (EC) No. 1 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/information 3.1. Substances Name LPO Standard 3.2. Mixtures | nt any particular risk, provided it is handl 1272/2008 [CLP] on on ingredients | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| To our knowledge, this product does not preservactice. 2.2. Label elements abelling according to Regulation (EC) No. 1 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/informatio 3.1. Substances Name LPO Standard 3.2. Mixtures Not applicable SECTION 4: First aid measures | nt any particular risk, provided it is handl 1272/2008 [CLP] on on ingredients | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| To our knowledge, this product does not preservactice. 2.2. Label elements abelling according to Regulation (EC) No. 1 A labelling applicable 2.3. Other hazards A additional information available SECTION 3: Composition/information A additional information available SECTION 4: First aid measures A additional information available SECTION 4: First aid measures A additional information available SECTION 4: First aid measures A additional information available SECTION 4: First aid measures A additional information available SECTION 4: First aid measures A additional information available A additional information availabl | nt any particular risk, provided it is hand 1272/2008 [CLP] On on ingredients Product identifier | <mark>%</mark> 100 | Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified |
| To our knowledge, this product does not preservactice. 2.2. Label elements abelling according to Regulation (EC) No. 1 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/informatio 3.1. Substances Name LPO Standard 3.2. Mixtures Not applicable SECTION 4: First aid measures I.1. Description of first aid measures First-aid measures after inhalation | nt any particular risk, provided it is hand 1272/2008 [CLP] On on ingredients Product identifier : Remove person to fresh air and | ۲۰۰۵ אליין אליין d keep comfortable fo | Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified |
| To our knowledge, this product does not preservactice. 2.2. Label elements abelling according to Regulation (EC) No. 1 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/informatio B.1. Substances Name LPO Standard 3.2. Mixtures Not applicable SECTION 4: First aid measures First-aid measures after inhalation First-aid measures after skin contact | nt any particular risk, provided it is hand 1272/2008 [CLP] On on ingredients Product identifier : Remove person to fresh air and : Wash skin with plenty of water. | d keep comfortable fo | Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified |
| To our knowledge, this product does not preservactice. 2.2. Label elements Labelling according to Regulation (EC) No. 1 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/informatio 3.1. Substances Name LPO Standard 3.2. Mixtures Not applicable SECTION 4: First aid measures First-aid measures after inhalation First-aid measures after eye contact | nt any particular risk, provided it is hand 1272/2008 [CLP] On on ingredients Product identifier : Remove person to fresh air and : Wash skin with plenty of water. : Rinse eyes with water as a pre | d keep comfortable fo caution. | Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified |
| To our knowledge, this product does not preservactice. 2.2. Label elements Labelling according to Regulation (EC) No. 1 No labelling applicable 2.3. Other hazards No additional information available SECTION 3: Composition/informatio 3.1. Substances Name LPO Standard | at any particular risk, provided it is hand 1272/2008 [CLP] On on ingredients Product identifier : Remove person to fresh air and : Wash skin with plenty of water. : Rinse eyes with water as a pre : Call a poison center or a docto | d keep comfortable fo caution. | Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified |

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

| SECTION 5: Firefighting measures | |
|----------------------------------|--|
| 5.1. Extinguishing media | |
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |

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| u () |
|--|
| ance or mixture |
| : Toxic fumes may be released. |
| |
| : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| res |
| |

| .1.1. For non-emergency personnel | |
|---|---|
| mergency procedures | : Ventilate spillage area. |
| .1.2. For emergency responders | |
| rotective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| .2. Environmental precautions | |
| void release to the environment. | |
| .3. Methods and material for containme | ent and cleaning up |
| lethods for cleaning up | : Take up liquid spill into absorbent material. |
| Other information | : Dispose of materials or solid residues at an authorized site. |
| .4. Reference to other sections | |
| or further information refer to section 13. | |

| SECTION 7: Handling and storage | |
|---|---|
| 7.1. Precautions for safe handling | |
| Precautions for safe handling | Ensure good ventilation of the work station. Wear personal protective equipment. |
| Hygiene measures | Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |
| 7.2. Conditions for safe storage, including any | / incompatibilities |
| Storage conditions | Store in a well-ventilated place. Keep cool. |
| | |

7.3. Specific end use(s) No additional information available

| SECTION 8: Exposure controls/personal protection |
|--|
| 8.1. Control parameters |
| No additional information available |
| 8.2. Exposure controls |
| Appropriate engineering controls: |
| Ensure good ventilation of the work station. |
| Hand protection: |
| Protective gloves |
| Eye protection: |
| Safety glasses |
| Skin and body protection: |
| Wear suitable protective clothing |
| Respiratory protection: |
| In case of insufficient ventilation, wear suitable respiratory equipment |

Environmental exposure controls:

Avoid release to the environment.

| SECTION 9: Physical and chemical p | |
|--|---------------------|
| 9.1. Information on basic physical and ch | emical properties |
| Physical state | : Liquid |
| Colour | : No data available |
| Odour | : No data available |
| Odour threshold | : No data available |
| рН | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : Not applicable |

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | - |
|----------------------------------|---------------------|
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |
| 0.2 Other information | |

9.2. Other information No additional information available

| SECTION 10: Stability and reactivity |
|--|
| 10.1. Reactivity |
| The product is non-reactive under normal conditions of use, storage and transport. |
| 10.2. Chemical stability |
| Stable under normal conditions. |
| 10.3. Possibility of hazardous reactions |
| No dangerous reactions known under normal conditions of use. |
| 10.4. Conditions to avoid |
| None under recommended storage and handling conditions (see section 7). |
| 10.5. Incompatible materials |
| No additional information available |
| 10.6. Hazardous decomposition products |
| Hazardous decomposition products. |

| SECTION 11: Toxicological information | on | |
|--|------------------|--|
| 11.1. Information on toxicological effects Acute toxicity (oral) | : Not classified | |
| Acute toxicity (dermal) | : Not classified | |
| Acute toxicity (inhalation) | : Not classified | |
| Skin corrosion/irritation | : Not classified | |
| Serious eye damage/irritation | : Not classified | |
| Respiratory or skin sensitisation | : Not classified | |
| Germ cell mutagenicity | : Not classified | |
| Carcinogenicity | : Not classified | |
| Reproductive toxicity | : Not classified | |
| STOT-single exposure | : Not classified | |
| STOT-repeated exposure | : Not classified | |
| Aspiration hazard | : Not classified | |

| SECTION 12: Ecological information | |
|-------------------------------------|--|
| 12.1. Toxicity | |
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Acute aquatic toxicity | : Not classified |
| Chronic aquatic toxicity | : Not classified |
| 12.2. Persistence and degradability | |
| No additional information available | |
| 12.3. Bioaccumulative potential | |
| No additional information available | |
| 12.4. Mobility in soil | |
| No additional information available | |

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| 12.5. Results of PBT and vPvB assessment | | |
|--|--|--|
| No additional information available 12.6. Other adverse effects | | |
| No additional information available | | |
| | | |
| SECTION 13: Disposal considerations | | |
| 13.1. Waste treatment methods | | |
| Waste treatment methods | : Waste treatment methods. | |
| | | |
| SECTION 14: Transport information | | |
| 14.1. UN number | | |
| UN-No. (ADR) | : Not applicable | |
| UN-No. (IMDG) | : Not applicable | |
| UN-No. (IATA) | : Not applicable | |
| UN-No. (ADN) | : Not applicable | |
| UN-No. (RID) | : Not applicable | |
| 14.2. UN proper shipping name | | |
| Proper Shipping Name (ADR) | : Not applicable | |
| Proper Shipping Name (IMDG) | : Not applicable | |
| Proper Shipping Name (IATA) | : Not applicable | |
| Proper Shipping Name (ADN) | : Not applicable | |
| Proper Shipping Name (RID) | : Not applicable | |
| 14.3. Transport hazard class(es) | | |
| ADR Transport hazard class(es) (ADR) | : Not applicable | |
| | . Not applicable | |
| | . Nat annlingh la | |
| Transport hazard class(es) (IMDG) | : Not applicable | |
| | Net wellschie | |
| Transport hazard class(es) (IATA) | : Not applicable | |
| ADN | | |
| Transport hazard class(es) (ADN) | : Not applicable | |
| RID | | |
| Transport hazard class(es) (RID) | : Not applicable | |
| 14.4. Packing group Packing group (ADR) | : Not applicable | |
| Packing group (IMDG) | : Not applicable | |
| Packing group (IATA) | : Not applicable | |
| Packing group (ADN) | : Not applicable | |
| Packing group (RID) | : Not applicable | |
| 14.5. Environmental hazards | | |
| Dangerous for the environment | : No | |
| Marine pollutant | : No | |
| Other information | : No supplementary information available | |
| 14.6. Special precautions for user | | |
| Overland transport | | |
| Not applicable | | |
| Transport by sea | | |
| Not applicable | | |
| Air transport | | |
| Not applicable | | |
| Inland waterway transport | | |
| Not applicable | | |
| Rail transport | | |
| Not applicable | | |
| 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code | | |
| Not applicable | | |
| | | |

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

LPO Standard is not on the REACH Candidate List

LPO Standard is not on the REACH Annex XIV List

LPO Standard is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

LPO Standard is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Safety Data Sheet applicable for regions

: GB - United Kingdom

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.