Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET



PUNAMAALI

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier Product name

: PUNAMAALI

1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use: Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

e-mail address of person : Prod-safe@teknos.com responsible for this SDS

National contact

Teknos (UK) Limited, 7 Longlands Rd, Bicester, Oxfordshire OX26 5AH, United Kingdom. Tel. +44 (0) 1869 208005.

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Skin Sens. 1, H317 Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



| Signal word Hazard statements | Varning I317 - May cause an allergic skin reaction. | |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------|----------|
| Precautionary statements | I412 - Harmful to aquatic life with long lasting effects. | |
| | 1402 Keen out of reach of children | |
| General | 2102 - Keep out of reach of children. | |
| Prevention | 2280 - Wear protective gloves. 2273 - Avoid release to the environment. 2261 - Avoid breathing vapour. | |
| Response | 2362 + P364 - Take off contaminated clothing and wash it before reuse | |
| Storage | lot applicable. | |
| Disposal | 2501 - Dispose of contents and container in accordance with all local, re ational and international regulations. | ∍gional, |
| | | |

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SECTION 2: Hazards identification

| Supplemental label elements | : Contains biocidal products for dry film and in-can preservation: IPBC and BIT and DCOIT and EGForm and C(M)IT/MIT (3:1) and OIT. Risk of skin sensitisation. |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : Not applicable. |
| 2.3 Other hazards | |
| Product meets the criteria for PBT or vPvB according to Regulation (EC) No. | : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |

1907/2006, Annex XIII Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

| Product/ingredient name | Identifiers | % | Classification | Туре |
|--------------------------------------------|----------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| -(2-butoxyethoxy)ethanol | REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8 | <1 | Eye Irrit. 2, H319 | [1] [2] |
| -iodo-2-propynyl-butyl carbamate | | ≤0.2 | Acute Tox. 4, H302 Acute Tox. 3, H331 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) | [1] |
| ,5-dichloro-2-octyl-2H-isothiazol- -one | EC: 264-843-8 CAS: 64359-81-5 Index: 613-335-00-8 | ≤0.021 | Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) | [1] |
| Reaction mass of ethylbenzene nd xylene | REACH #: 01-2119488216-32 01-2119486136-34 EC: 905-588-0 | ≤0.1 | EUH071 Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (inhalation) | [1] [2] |
| mmonia | REACH #: 01-2119488876-14 EC: 215-647-6 CAS: 1336-21-6 Index: 007-001-01-2 | <0.1 | Asp. Tox. 1, H304 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) | [1] [2] |
| Cobalt bis(2-ethylhexanoate) | REACH #: 01-2119524678-29 | <0.1 | Eye Irrit. 2, H319 Skin Sens. 1A, H317 | [1] [2] |

PUNAMAALI

| CAS: 136-52-7 | | Repr. 1B, H360F Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412 | |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS: 55965-84-9 Index: 613-167-00-5 | ≤0.0014 | Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) | [1] |
| REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5 | <0.1 | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335 See Section 16 for | [1] [2 |
| | Index: 613-167-00-5 REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 | Index: 613-167-00-5 REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 (0.1) | CAS: 55965-84-9 ≤0.0014 Aquatic Chronic 3, H412 Index: 613-167-00-5 ≤0.0014 Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H310 Acute Tox. 3, H301 Acute Tox. 3, H317 Aquatic Acute 1, H400 (M=100) EUH071 Acute Tox. 3, H301 Acute Tox. 3, H301 Acute Tox. 3, H301 O1-2119488953-20 <0.1 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the

concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

| Eye contact | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Skin contact | : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Ingestion | : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get |
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| | Label No :39064 |
| PUNAMAALI | |

| SECTION 4: First aid | d measures |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | medical attention immediately. Maintain an open airway. Loosen tight clothing suc as a collar, tie, belt or waistband. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |
| | ns and effects, both acute and delayed |
| Over-exposure signs/symp | |
| Eye contact | : No specific data. |
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Ingestion | : No specific data. |
| 4.3 Indication of any immed | iate medical attention and special treatment needed |
| Notes to physician | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : No specific treatment. |
| SECTION 5: Firefigh | iting measures |
| 5.1 Extinguishing media | |
| Suitable extinguishing media | : Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | : None known. |
| 5.2 Special hazards arising | from the substance or mixture |
| Hazards from the substance or mixture | : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous combustion products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides |
| 5.3 Advice for firefighters | |
| Special protective actions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| SECTION 6: Accider | ntal release measures |
| 6.1 Personal precautions, p | rotective equipment and emergency procedures |
| For non-emergency personnel | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or |

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

| Date of issue/Date of revision | : 16/01/2023 | Date of previous issue | : 05/09/2022 | Version | :2 | 4/18 |
|--------------------------------|--------------|------------------------|--------------|----------|-------|------|
| | | | | Label No | :3906 | 64 |
| PUNAMAALI | | | | | | |

SECTION 6: Accidental release measures

| 6.2 Environmental precautions | : | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. |
|---------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.3 Methods and material for | со | ntainment and cleaning up |
| Small spill | : | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Large spill | : | Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |
| 6.4 Reference to other sections | : | See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. |

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

| Protective measures | : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

7.2 Conditions for safe storage, including any incompatibilities

Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

| 7.3 Specific end use(s) | |
|--------------------------------------|------------------|
| Recommendations | : Not available. |
| Industrial sector specific solutions | : Not available. |

SECTION 8: Exposure controls/personal protection

| 8.1 Control parameters | |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Occupational exposure limits | |
| 2-(2-butoxyethoxy)ethanol | EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m ³ 8 hours. |
| | STEL: 101.2 mg/m ³ 15 minutes. |
| Reaction mass of ethylbenzene and xylene | EU OEL (Europe). |
| | TWA: 50 ppm |
| | TWA: 221 mg/m ³ |
| | STEL: 100 ppm STEL: 442 mg/m³ |
| Ammonia | EH40/2005 WELs (United Kingdom (UK), 1/2020). [ammonia] |
| Ammonia | STEL: 25 mg/m ³ 15 minutes. Form: anhydrous |
| | STEL: 35 ppm 15 minutes. Form: anhydrous |
| | TWA: 25 ppm 8 hours. Form: anhydrous |
| | TWA: 18 mg/m³ 8 hours. Form: anhydrous |
| Cobalt bis(2-ethylhexanoate) | EH40/2005 WELs (United Kingdom (UK), 1/2020). [cobalt and |
| | cobalt compounds] Inhalation sensitiser. |
| | TWA: 0.1 mg/m³, (as Co) 8 hours. |
| Formaldehyde | EH40/2005 WELs (United Kingdom (UK), 1/2020). |
| | STEL: 2.5 mg/m ³ 15 minutes. |
| | STEL: 2 ppm 15 minutes. TWA: 2 ppm 8 hours. |
| | TWA: 2 ppm o hours. TWA: 2.5 mg/m ³ 8 hours. |
| | |
| procedures atmosphere | ct contains ingredients with exposure limits, personal, workplace or biological monitoring may be required to determine the effectiveness ation or other control measures and/or the necessity to use respiratory |

protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the

determination of hazardous substances will also be required.

DNELs/DMELs

| Product/ingredient name | Туре | Exposure | Value | Population | Effects |
|-----------------------------------|-------|-------------------------|------------------------|-----------------------|-----------|
| 2-(2-butoxyethoxy)ethanol | DNEL | Long term Oral | 5 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Long term Inhalation | 40.5 mg/m ³ | | Local |
| | DNEL | | 40.5 mg/m ³ | population General | Systemic |
| | DINEL | Long term Inhalation | 40.5 mg/m | population | Systemic |
| | DNEL | Long term Dermal | 50 mg/kg | General | Systemic |
| | DINCL | Long term Derma | bw/day | population | Oysternie |
| | DNEL | Short term | 60.7 mg/m ³ | | Local |
| | DITE | Inhalation | 0011 mg,m | population | Local |
| | DNEL | Long term | 67.5 mg/m³ | | Local |
| | | Inhalation | | | |
| | DNEL | Long term Inhalation | 67.5 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 83 mg/kg | Workers | Systemic |
| | DNEL | Short term | bw/day 101.2 mg/ | Workers | Local |
| | DINCL | Inhalation | m ³ | WUIKEIS | LUCAI |
| 3-iodo-2-propynyl-butyl carbamate | DNEL | Long term | 0.023 mg/ | Workers | Systemic |
| | DITE | Inhalation | m ³ | | eyetenne |
| | DNEL | Short term | 0.07 mg/m ³ | Workers | Systemic |
| | | Inhalation | Ũ | | 5 |
| | DNEL | Short term | 1.16 mg/m ³ | Workers | Local |
| | | Inhalation | _ | | |
| | DNEL | Long term | 1.16 mg/m ³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Long term Dermal | 2 mg/kg bw/day | Workers | Systemic |

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| Reaction mass of ethylbenzene and | DNEL | Long term | 221 mg/m ³ | Workers | Systemic |
|--------------------------------------|-------|-------------------------|------------------------|-----------------------|-----------|
| xylene | | Inhalation | | | |
| | DNEL | Short term | 442 mg/m ³ | Workers | Systemic |
| | | Inhalation | | | |
| | DNEL | Long term | 221 mg/m ³ | Workers | Local |
| | | Inhalation | | | |
| | DNEL | Short term | 221 mg/m ³ | Workers | Local |
| | | Inhalation | 010 | 14/ | |
| | DNEL | Long term Dermal | 212 mg/kg | Workers | Systemic |
| | DNEL | Long term Inhalation | 65.3 mg/m ³ | General | Systemic |
| | DNEL | Long term | 65.3 mg/m ³ | population General | Local |
| | DNEL | Inhalation | 05.5 mg/m | population | LUCAI |
| | DNEL | Short term | 260 mg/m ³ | General | Local |
| | DNEL | Inhalation | 200 mg/m | population | LUCAI |
| | DNEL | Long term Dermal | 125 mg/kg | General | Systemic |
| | DIVLL | Long term Derma | 120 mg/kg | population | Cysternic |
| | DNEL | Long term Oral | 12.5 mg/kg | General | Systemic |
| | | | 12.0 mg/kg | population | Cysternie |
| Cobalt bis(2-ethylhexanoate) | DNEL | Long term | 37 µg/m³ | General | Local |
| | | Inhalation | r"3'''' | population | |
| | DNEL | Long term Oral | 55.8 µg/kg | General | Systemic |
| | | | bw/day | population | , |
| | DNEL | Long term | 235.1 µg/ | Workers | Local |
| | | Inhalation | m ³ | | |
| reaction mass of: 5-chloro-2-methyl- | DNEL | Long term | 0.02 mg/m ³ | General | Local |
| 4-isothiazolin-3-one [EC no. | | Inhalation | Ũ | population | |
| 247-500-7] and 2-methyl-2H- | | | | | |
| isothiazol-3-one [EC no. 220-239-6] | | | | | |
| (3:1) | | | | | |
| | DNEL | Long term | 0.02 mg/m ³ | Workers | Local |
| | | Inhalation | _ | | |
| | DNEL | Short term | 0.04 mg/m ³ | General | Local |
| | | Inhalation | | population | |
| | DNEL | Short term | 0.04 mg/m ³ | Workers | Local |
| | | Inhalation | | . . | |
| | DNEL | Long term Oral | 0.09 mg/ | | Systemic |
| | | | kg bw/day | population | |
| | DNEL | Short term Oral | 0.11 mg/ | General | Systemic |
| | | | kg bw/day | population | 1 |
| Formaldehyde | DNEL | Long term Dermal | 0.012 mg/ | General | Local |
| | | | cm^2 | population | |
| | DNEL | Long term Dermal | 0.037 mg/ | Workers | Local |
| | | Long torm | Cm^2 | General | |
| | DNEL | Long term Inhalation | 0.1 mg/m ³ | | Local |
| | DNEL | Long term | 3.2 mg/m ³ | population General | Systemic |
| | DINEL | Inhalation | 5.2 mg/m | population | Systemic |
| | DNEL | Long term Oral | 4.1 mg/kg | General | Systemic |
| | | | bw/day | population | Cysternie |
| | DNEL | Long term | 9 mg/m ³ | Workers | Systemic |
| | | Inhalation | 5 | | |
| | DNEL | Long term Dermal | 102 mg/kg | General | Systemic |
| | | | bw/day | population | |
| | DNEL | Long term Dermal | 240 mg/kg | Workers | Systemic |
| | | | bw/day | | |
| | DNEL | Long term | 0.375 mg/ | Workers | Local |
| | | Inhalation | m ³ | | |
| | DNEL | Short term | 0.75 mg/m ³ | Workers | Local |
| | | Inhalation | | | 1 |

PNECs

| ECTION 8: Exposure controls/personal protection | | | | | |
|-------------------------------------------------|----------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------|--|--|
| Product/ingredient name | Compartment Detail | Value | Method Detail | | |
| Reaction mass of ethylbenzene and xylene | Fresh water Marine water Sewage Treatment Plant | 0.327 mg/l 0.327 mg/l 6.58 mg/l | Sensitivity Distribution Sensitivity Distribution Sensitivity Distribution | | |
| | Fresh water sediment Marine water sediment Soil | 12.46 mg/kg 12.46 mg/kg 2.31 mg/kg | Equilibrium Partitioning Equilibrium Partitioning Equilibrium Partitioning | | |

| 8.2 Exposure controls | | |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Appropriate engineering controls | : Good general ventilation should be sufficient to control worker exposure to airbor contaminants. | ne |
| Individual protection meas | <u>ures</u> | |
| Hygiene measures | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working perior Appropriate techniques should be used to remove potentially contaminated clothin Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. | |
| Eye/face protection | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mist gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses w side-shields. | ts, |
| Skin protection | | |
| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard show be worn at all times when handling chemical products if a risk assessment indica this is necessary. Considering the parameters specified by the glove manufactur check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. | tes |
| | Recommendations : Wear suitable gloves tested to EN374. | |
| | > 8 hours (breakthrough time): Nitrile gloves. thickness > 0.3 mm | |
| | Not recommended polyvinyl alcohol (PVA) gloves | |
| Body protection | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. | , |
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |) |
| Respiratory protection | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other importa aspects of use. | |
| | Filter type (spray application): A P | |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the proces equipment will be necessary to reduce emissions to acceptable levels. | |

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

| <u>Appearance</u> | |
|-----------------------------------------|------------------|
| Physical state | : Liquid. |
| Colour | : Various |
| Odour | : Slight |
| Odour threshold | : Not available. |
| Melting point/freezing point | : Not available. |
| Initial boiling point and boiling range | : |
| | |

| Ingredient name | °C | °F | Method |
|-------------------------------------|---------|-----|--------|
| water | 100 | 212 | |
| Flammability (solid, gas) : Not ava | ilable. | I | |

| Upper/lower flammability or explosive limits | : Lower: Not applicable. Upper: Not applicable. |
|-------------------------------------------------|----------------------------------------------------|
| Flash point | : Closed cup: >100°C (>212°F) |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : Not available. |
| рН | : Not available. |
| Viscosity | : Not available. |
| Solubility(ies) | : |
| Not available. | |
| Solubility in water | : Not available. |
| Partition coefficient: n-octanol/ | : Not applicable. |
| | |

ŝ

water

F

Vapour pressure

| | Va | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|--------------------------|-------|-------------------------|--------|-------|-------------------------|--------|--|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method | |
| water | 23.8 | 3.2 | | | | | |
| Relative density | : Not | available. | | I | I | | |
| Density | : 1.2 | g/cm³ | | | | | |
| Vapour density | : Not | available. | | | | | |
| Explosive properties | : Not | available. | | | | | |
| Oxidising properties | : Not | available. | | | | | |
| Particle characteristics | | | | | | | |
| Median particle size | : Not | applicable. | | | | | |

SECTION 10: Stability and reactivity

| PUNAMAALI | Label No :39064 |
|--------------------------------------------|----------------------------------------------------------------------------------------------|
| Date of issue/Date of revision | : 16/01/2023 Date of previous issue : 05/09/2022 Version : 2 9/18 |
| 10.4 Conditions to avoid | : No specific data. |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.2 Chemical stability | : The product is stable. |
| 10.1 Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |

SECTION 10: Stability and reactivity

10.5 Incompatible materials : No

rials : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|------------------------------|---------------------------|-------------|-----------------------|----------|
| 2-(2-butoxyethoxy)ethanol | LD50 Dermal | Rabbit | 2700 mg/kg | - |
| | LD50 Oral | Rat | 4500 mg/kg | - |
| 3-iodo-2-propynyl-butyl | LC50 Inhalation Dusts and | Rat | 0.67 g/m ³ | 4 hours |
| carbamate | mists | | | |
| | LC50 Inhalation Dusts and | Rat | 0.763 mg/l | 4 hours |
| | mists | | | |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 400 mg/kg | - |
| 4,5-dichloro-2-octyl-2H- | LC50 Inhalation Dusts and | Rat - Male, | 0.26 mg/l | 4 hours |
| isothiazol-3-one | mists | Female | | |
| | LD50 Dermal | Rabbit | >652 mg/kg | - |
| | LD50 Oral | Rat | 1585 mg/kg | - |
| Reaction mass of | LC50 Inhalation Gas. | Rat - Male | 6350 ppm | 4 hours |
| ethylbenzene and xylene | | | | |
| | LD50 Dermal | Rabbit | 12126 mg/kg | - |
| | LD50 Oral | Rat | 3523 mg/kg | - |
| Ammonia | LD50 Oral | Rat | 350 mg/kg | - |
| Cobalt bis(2-ethylhexanoate) | | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 1.22 g/kg | - |
| reaction mass of: 5-chloro- | LD50 Oral | Rat | 53 mg/kg | - |
| 2-methyl-4-isothiazolin- | | | | |
| 3-one [EC no. 247-500-7] | | | | |
| and 2-methyl-2H-isothiazol- | | | | |
| 3-one [EC no. 220-239-6] (3: | | | | |
| 1) | | | | |
| Formaldehyde | LC50 Inhalation Gas. | Rat | 250 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 270 mg/kg | - |
| | LD50 Oral | Rat | 100 mg/kg | - |

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Acute toxicity estimates

| Route | ATE value |
|------------------------------|-------------|
| Inhalation (dusts and mists) | 340.76 mg/l |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|------------------------------------------|--------------------------|------------------------------------|-------|---------------------|-------------|
| 2-(2-butoxyethoxy)ethanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 20 | - |
| | | | | mg | |
| | Eyes - Severe irritant | Rabbit | - | 20 mg | - |
| 3-iodo-2-propynyl-butyl carbamate | Eyes - Severe irritant | Rabbit | - | - | - |
| Reaction mass of ethylbenzene and xylene | Eyes - Irritant | Rabbit | - | - | - |
| , , | Respiratory - Irritant | Mammal - species unspecified | - | - | - |
| | Skin - Irritant | Rabbit | - | - | - |
| Ammonia | Eyes - Severe irritant | Rabbit | - | 0.5 minutes 1 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 250 ug | - |

| reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one | Skin - Severe irritant | Human | - | 0.01 % | - |
|------------------------------------------------------------------------------------------------------------------------|--------------------------|--------|---|----------------------|---|
| [EC no. 220-239-6] (3:1) | | | | | |
| Formaldehyde | Eyes - Mild irritant | Human | - | 6 minutes 1 ppm | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 750 ug | - |
| | Eyes - Severe irritant | Rabbit | - | 750 ug | - |
| | Skin - Mild irritant | Human | - | 72 hours 150 ug l | - |
| | Skin - Mild irritant | Rabbit | - | 540 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 50 mg | - |
| | Skin - Severe irritant | Human | - | 0.01 % | - |
| | Skin - Severe irritant | Rabbit | - | 0.8 % | - |
| | Skin - Severe irritant | Rabbit | - | 24 hours 2 mg | - |

Conclusion/Summary : Based on available data, the classification criteria are not met.

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|------------------------------------------|-------------------|---------------------------------|-----------------|
| 3-iodo-2-propynyl-butyl carbamate | skin | Guinea pig | Not sensitizing |
| Reaction mass of ethylbenzene and xylene | skin | Mammal - species unspecified | Not sensitizing |

Conclusion/Summary : May cause an allergic skin reaction.

Mutagenicity

| Product/ingredient name | Test | Experiment | Result |
|--------------------------------------|------|-------------------------------------------|----------|
| 3-iodo-2-propynyl-butyl carbamate | - | Experiment: In vitro Subject: Bacteria | Negative |

Conclusion/Summary : Based on available data, the classification criteria are not met.

Carcinogenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Reproductive toxicity

| Product/ingredient name | Maternal toxicity | Fertility | Developmental toxin | Species | Dose | Exposure |
|-----------------------------------|----------------------|-----------|------------------------|---------|-------------------|--------------------------------|
| 3-iodo-2-propynyl-butyl carbamate | Negative | - | Negative | | Oral: 20 mg/kg | 13 days; 7 days per week |
| | Positive | - | Negative | | | 13 days; 7 days per week |

Conclusion/Summary :

: Based on available data, the classification criteria are not met.

Teratogenicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-----------------------------------|-----------------|-----------------|----------|----------|
| 3-iodo-2-propynyl-butyl carbamate | Negative - Oral | Rabbit - Female | 50 mg/kg | - |

Conclusion/Summary : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

| Product/ingredient name | | Ca | itegory | Route of exposure | Target organs |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------|-------------------------|-----------------------------------------------|
| Reaction mass of ethylbenzene and xylene | | Catego | ory 3 | - | Respiratory tract |
| Ammonia | | Catego | ory 3 | - | irritation Respiratory tract |
| Formaldehyde | | Catego | ory 3 | - | irritation Respiratory tract irritation |
| Specific target organ toxic | ity (repeated exposure) | | | | |
| Product/ing | redient name | Ca | tegory | Route of exposure | Target organs |
| 3-iodo-2-propynyl-butyl carb Reaction mass of ethylbenz | | Catego Catego | | - inhalation | larynx - |
| Aspiration hazard | | | | • | • |
| Product | ingredient name | | | Result | |
| Reaction mass of ethylbenze | ene and xylene | | ASPIRAT | ION HAZARD - Ca | tegory 1 |
| Inhalation Skin contact Ingestion <u>ymptoms related to the phy</u> Eye contact Inhalation Skin contact | No known significant eff May cause an allergic s No known significant eff ysical, chemical and toxical No specific data. No specific data. Adverse symptoms may irritation redness No specific data. | kin reactior fects or crit <mark>blogical ch</mark> | n. ical hazarc <mark>aracterist</mark> | ls. <mark>ics</mark> | |
| elayed and immediate effe | cts as well as chronic effec | ts from sh | ort and lo | ong-term exposure | <u>e</u> |
| Short term exposure Potential immediate effects | : Not available. | | | | |
| Potential delayed effects Long term exposure | : Not available. | | | | |
| Potential immediate effects | : Not available. | | | | |
| Potential delayed effects Potential chronic health eff | : Not available. | | | | |
| | | Crock | | Deee | Eveneering |
| Product/ingredient name | Result | Spec | les | Dose | Exposure |
| Reaction mass of ethylbenzene and xylene | Chronic NOAEL Oral Sub-chronic NOAEL Inhalation Vapour | Rat Rat | | 250 mg/kg 3515 mg/m³ | - 13 weeks |
| Conclusion/Summary | : Not available. | I | | | - |
| General | · Once sensitized a seve | re alleraic | reaction m | av occur when sub | sequently exposed |

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SECTION 11: Toxicological information

Carcinogenicity Mutagenicity Reproductive toxicity

- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.
 - : No known significant effects or critical hazards.

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|----------------------------------------------|---------------------------------------|--------------------------------------------------------------------------|----------|
| 2-(2-butoxyethoxy)ethanol | Acute LC50 1300000 µg/l Fresh water | Fish - Bluegill - Lepomis macrochirus | 96 hours |
| 3-iodo-2-propynyl-butyl carbamate | Acute EC50 0.022 mg/l Fresh water | Algae - Algae - Scenedemus subspicatus | 72 hours |
| | Acute EC50 0.16 mg/l Fresh water | Daphnia - Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 0.067 mg/l Fresh water | Fish - Trout - Oncorhynchus mykiss | 96 hours |
| | Acute NOEC 0.049 mg/l Fresh water | Fish - Trout - Oncorhynchus mykiss | 96 hours |
| | Chronic NOEC 0.05 mg/l Fresh water | Daphnia - Daphnia - Daphnia Magna | 21 days |
| 4,5-dichloro-2-octyl-2H- isothiazol-3-one | Acute EC50 0.003 mg/l Fresh water | Algae - Green algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 18 ppb Marine water | Algae - Diatom - Skeletonema costatum | 96 hours |
| | Acute EC50 0.001 mg/l Fresh water | Daphnia - Water flea - Daphnia magna | 48 hours |
| | Acute LC50 22 µg/l Fresh water | Crustaceans - Scud - Gammarus pulex | 48 hours |
| | Acute LC50 2.7 ppb Fresh water | Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss | 96 hours |
| | Chronic NOEC 19.789 µg/l Marine water | Algae - Diatom - Nitzschia pungens | 96 hours |
| | Chronic NOEC 0.56 ppb | Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss | 97 days |
| Reaction mass of ethylbenzene and xylene | Acute EC50 2.2 mg/l | Algae | 72 hours |
| | Acute LC50 2.6 mg/l | Fish | 96 hours |
| | Chronic NOEC 0.96 mg/l | Daphnia | 7 days |
| Ammonia | Acute LC50 37 ppm Fresh water | Fish - Western mosquitofish - Gambusia affinis - Adult | 96 hours |
| Formaldehyde | Acute EC50 3.48 mg/l Fresh water | Algae - Green algae - Desmodesmus subspicatus | 72 hours |
| | Acute EC50 0.788 mg/l Marine water | Algae - Green algae - Ulva pertusa | 96 hours |
| | Acute EC50 12.98 mg/l Fresh water | Crustaceans - Water flea - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute EC50 5800 µg/l Fresh water | Daphnia - Water flea - Daphnia pulex - Neonate | 48 hours |
| | Acute LC50 1.41 ppm Fresh water | Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss | 96 hours |
| | Chronic NOEC 0.005 mg/l Marine water | Algae - Haptophyte - Isochrysis galbana - Exponential growth phase | 96 hours |
| | Chronic NOEC 953.9 ppm Fresh water | Fish - Chinook salmon - Oncorhynchus tshawytscha - Egg | 43 days |

Conclusion/Summary :

: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Date of issue/Date of revision

SECTION 12: Ecological information

| Conclusion/Summary | : This product has not been tested for biodegradation. | | |
|--------------------------------------|--------------------------------------------------------|------------|------------------|
| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
| 3-iodo-2-propynyl-butyl carbamate | - | - | Not readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--------------------------------------|--------|-----|-----------|
| 3-iodo-2-propynyl-butyl carbamate | >1 | - | low |

| 12.4 Mobility in soil | |
|----------------------------------------|------------------|
| Soil/water partition coefficient (Koc) | : Not available. |
| Mobility | : Not available. |

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

| - | |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13.1 Waste treatment meth | nods |
| Product | |
| Methods of disposal | : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. |
| Hazardous waste | : The classification of the product may meet the criteria for a hazardous waste. |
| European waste catalogue (EWC) | : 080111*, 200127* |
| Packaging | |
| Methods of disposal | The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. |
| Special precautions | This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. |

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | ΙΑΤΑ |
|------------------------------------|------------------|----------------------------|----------------|-------------------|
| 14.1 UN number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | - | - | - |
| 14.3 Transport hazard class(es) | - | - | - | - |
| Date of issue/Date of re | vision : 16/01/2 | 023 Date of previous issue | : 05/09/2022 | Version : 2 14/18 |

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| SECTION 14: Transport information | | | | |
|-----------------------------------|-----|-----|-----|-----|
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | No. | No. | No. |

| 14.6 Special precautions for user | : | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. |
|-----------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14.7 Transport in bulk | : | Not relevant/applicable due to nature of the product. |

| instruments |
|------------------------------------|
| SECTION 15: Regulatory information |

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

UK (GB) /REACH

according to IMO

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

: Not listed

Industrial emissions (integrated pollution prevention and control) -Air **Industrial emissions** : Not listed (integrated pollution prevention and control) -Water

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Date of issue/Date of revision

SECTION 15: Regulatory information

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

| 15.2 Chemical safety | : | This product contains substances for which Chemical Safety Assessments are still |
|----------------------|---|----------------------------------------------------------------------------------|
| assessment | | required. |

SECTION 16: Other information

Indicates information that has changed from previously issued version.

| Abbreviations and acronyms | ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | PNEC = Predicted No Effect Concentration |
| | RRN = REACH Registration Number SGG = Segregation Group |
| | vPvB = Very Persistent and Very Bioaccumulative |

Procedure used to derive the classification

| Classification | Justification |
|----------------|------------------------------------------|
| | Calculation method Calculation method |

Full text of abbreviated H statements

| H226 | Flammable liquid and vapour. | |
|--------|--------------------------------------------------------------------|--|
| H301 | Toxic if swallowed. | |
| H302 | Harmful if swallowed. | |
| H304 | May be fatal if swallowed and enters airways. | |
| H310 | Fatal in contact with skin. | |
| H311 | Toxic in contact with skin. | |
| H312 | Harmful in contact with skin. | |
| H314 | Causes severe skin burns and eye damage. | |
| H315 | Causes skin irritation. | |
| H317 | May cause an allergic skin reaction. | |
| H318 | Causes serious eye damage. | |
| H319 | Causes serious eye irritation. | |
| H330 | Fatal if inhaled. | |
| H331 | Toxic if inhaled. | |
| H332 | Harmful if inhaled. | |
| H335 | May cause respiratory irritation. | |
| H341 | Suspected of causing genetic defects. | |
| H350 | May cause cancer. | |
| H360F | May damage fertility. | |
| H372 | Causes damage to organs through prolonged or repeated exposure. | |
| H373 | May cause damage to organs through prolonged or repeated exposure. | |
| H400 | Very toxic to aquatic life. | |
| H410 | Very toxic to aquatic life with long lasting effects. | |
| H412 | Harmful to aquatic life with long lasting effects. | |
| EUH071 | Corrosive to the respiratory tract. | |

Full text of classifications

| Date of issue/Date of revision | : 16/01/2023 | Date of previous issue | :05/09/2022 | Version :2 | 2 16/18 |
|--------------------------------|--------------|------------------------|-------------|--------------|----------------|
| | | | | Label No :39 | 9064 |

SECTION 16: Other information

| SECTION 16: Of | ner information |
|------------------------|-----------------------------------------------------------------|
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 |
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Carc. 1B | CARCINOGENICITY - Category 1B |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Muta. 2 | GERM CELL MUTAGENICITY - Category 2 |
| Repr. 1B | REPRODUCTIVE TOXICITY - Category 1B |
| Skin Corr. 1 | SKIN CORROSION/IRRITATION - Category 1 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| STOT RE 1 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |
| Date of issue/ Date of | : 16/01/2023 |
| revision | |
| Date of previous issue | : 05/09/2022 |
| Version | : 2 |
| | PUNAMAALI All variants |

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

Date of issue/Date of revision

PUNAMAALI