

## Safety Data Sheet

According to the Hazard Communication Standard and the Hazardous Products Regulations (HPR) WHMIS

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Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
Trade name : SANI-PAK Toilet Deodorant Clear Concentrate  
Product code : Formula : LB-97000M/C  
Part No: SP-97000C series

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Deodorizer.

### 1.3. Supplier

#### Supplier

Celeste Industries Corporation  
8007 Industrial Park Road  
Easton, Maryland 21601 USA  
T 1-410-822-5775  
[info@celestecorp.com](mailto:info@celestecorp.com) - [www.celestecorp.com](http://www.celestecorp.com)

#### Distributor

ITW Permatex Canada  
2360 Bristol Circle, Ste 101  
Oakville, ON L6H 6M5 - Canada  
T 1-800-241-8334

### 1.4. Emergency telephone number

Emergency number : For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident call CHEMTREC (24 hours) within USA and CANADA: 1-800-424-9300; Outside USA and Canada (collect call accepted): 1-703-527-3883

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### GHS classification

Acute Tox. 4 (Oral)  
Skin Irrit. 2  
Eye Dam. 1  
Skin Sens. 1A

### 2.2. GHS Label elements, including precautionary statements

#### GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

Harmful if swallowed.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

Precautionary statements (GHS) :

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands, forearms and face thoroughly after handling.

Do not eat, drink or smoke when using this product

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a poison center or doctor if you feel unwell.

Rinse mouth.

If on skin: Wash with plenty of water.

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Take off contaminated clothing and wash it before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a poison center or doctor.  
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 which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity

4.15% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                                                                          | Chemical name / Synonyms                                                                                                                                                                                                                                                                                                                                                                                         | Product identifier  | %       |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------|
| Alcohols, C9-11, ethoxylated                                                                  | Alcohols, C9-11, ethoxylated<br>C9-11 PARETH-6 / C9-11 PARETH-2 / Alcohol (C9-11) poly(2.5-9)ethoxylate / C9-11 Alcohols ethoxylated / C9-11 ALKETH-3 / C9-11 Pareth-6 / C9-11 Pareth-3 / Polyethylene glycol, nonyl, decyl, undecyl ether / Alkyl(C9-11) alcohol, ethoxylated / C9-11 Pareth / Ethoxylated alcohols(C9-11) / C9-11 PARETH-8 / C9-11 PARETH-4 / C9-11 Pareth-4 / C9-11 Pareth-8 / C9-11 PARETH-3 | CAS-No.: 68439-46-3 | 3 - 7   |
| 2-Bromo-2-nitro-1,3-propanediol                                                               | 2-Bromo-2-nitro-1,3-propanediol<br>Bronopol / Propane-1,3-diol, 2-bromo-2-nitro- / 1,3-Propanediol, 2-bromo-2-nitro- / 2-BROMO-2-NITROPROPANE-1,3-DIOL / 2-Bromo-2-nitropropane-1,3-diol                                                                                                                                                                                                                         | CAS-No.: 52-51-7    | 3 - 7   |
| .beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt                                | .beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt<br>N-Lauryl-.beta.-iminodipropionic acid, sodium salt / .beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, sodium salt (1:1) / Sodium N-(2-carboxyethyl)-N-dodecyl-.beta.-alaninate / Sodium lauryliminodipropionate / Sodium 3-[(2-carboxyethyl)(dodecyl)amino]propanoate / Sodium lauriminodipropionate / SODIUM LAURIMINODIPROPIONATE              | CAS-No.: 14960-06-6 | 1 – 5   |
| Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates | Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates<br>C8-10-Alkyl alcohol ethoxylate, phosphate ester / Polyethyleneglycol monoalkyl (C8-10) ether phosphate / Polyethylene glycol mono alkyl (C8-10) ether phosphate / .alpha.-Hydroxy-.omega.-hydroxypoly(oxy-1,2-ethanediyl)alkyl (C8-10) ethers phosphate / C8-10 Alkyl alcohol ethoxylate (4EO), phosphate ester | CAS-No.: 68130-47-2 | 0.1 - 1 |

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| Name                                                                        | Chemical name / Synonyms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Product identifier  | %       |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------|
| Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)- | Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-<br>1-(2,3,8,8-Tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethan-1-one / Naphthalenone, 1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-aceto- / 1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-acetonaphthalenone / 1-(2,3,8,8-tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethanone / 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone / 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one                                                                                                                                                                                                                                     | CAS-No.: 54464-57-2 | 0.1 - 1 |
| Terpenes and Terpenoids, sweet orange-oil                                   | Terpenes and Terpenoids, sweet orange-oil<br>Sweet orange oil terpenes / Terpenes and terpenoids, orange oil / Oils, sweet orange (terpenes and terpenoids) / Terpenes and terpenoids, sweet orange-oil / Terpenes and terpenoids, orange-oil / Orange, sweet, extract / Orange terpenes / Orange oil, sweet, terpenes                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CAS-No.: 68647-72-3 | 0.1 - 1 |
| Citral                                                                      | Citral<br>3,7-Dimethyl-2,6-octadienal / 2,6-Octadienal, 3,7-dimethyl- / CITRAL / 3,7-Dimethylocta-2,6-dien-8-al / citral                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | CAS-No.: 5392-40-5  | 0.1 - 1 |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl-                                     | 3(2H)-Isothiazolone, 5-chloro-2-methyl-<br>5-Chloro-2-methyl-isothiazolone-3(2H)-one / 2-Methyl-5-chloro-2H-isothiazol-3-one / 3(2H)-Isothiazolon-3-one, 5-chloro-2-methyl- / CIT / 5-Chloro-2-methyl-isothiazolin-3(2H)-one / 5-Chloro-2-methyl-4-thiazoline-3-ketone / 5-Chloro-2-methylisothiazol-3(2H)-one / 2H-Isothiazol-3-one, 5-chloro-2-methyl- / 5-Chloro-2-methylisothiazolone / methylchloroisothiazolinone / 2-Methyl-5-chloroisothiazolin-3-one / 5-Chloro-2-methyl-3(2H)-isothiazolone / METHYLCHLOROISOTHAZOLINONE / Methylchloroisothiazolinone / 4-Isothiazolin-3-one, 5-chloro-2-methyl- / Isothiazol(2H)-3-one, 5-chloro-2-methyl- / 5-Chloro-2-methyl-4-isothiazolin-3-one / 5-Chloro-2-methyl-2H-isothiazol-3-one / 5-Chloro-2-methyl-3-isothiazolone | CAS-No.: 26172-55-4 | 0.1 - 1 |
| 3(2H)-Isothiazolone, 2-methyl-                                              | 3(2H)-Isothiazolone, 2-methyl-<br>2-Methyl-2,3-dihydroisothiazol-3-one / 2-Methylisothiazol-3(2H)-one / 3(2H)-Isothiazolon-3-one, 2-methyl- / 2-Methylisothiazolin-3(2H)-one / N-Methyl-isothiazolone / methylisothiazolinone / MIT / METHYLISOTHAZOLINONE / Methyl-4-isothiazolin-3-one, 2- / Methylisothiazolone / Methylisothiazolinone / 2-Methyl-4-isothiazolone-3-one / 2-Methyl-4-isothiazolin-3-one / 2-Methyl-2H-isothiazol-3-one / 3-Isothiazolone, 2-methyl- / 2-Methyl-3-isothiazolone                                                                                                                                                                                                                                                                          | CAS-No.: 2682-20-4  | < 0.1   |

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after inhalation   | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.                 |
| First-aid measures after skin contact | : IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.                 |
| First-aid measures after eye contact  | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.        |
| First-aid measures after ingestion    | : IF SWALLOWED: Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell. |

### 4.2. Most important symptoms and effects (acute and delayed)

|                                   |                                                  |
|-----------------------------------|--------------------------------------------------|
| Symptoms/effects after inhalation | : May cause irritation to the respiratory tract. |
|-----------------------------------|--------------------------------------------------|

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|                                     |                                                                                                                                                                                  |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after skin contact | : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause an allergic skin reaction.                                         |
| Symptoms/effects after eye contact  | : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns. |
| Symptoms/effects after ingestion    | : Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.                                                                                    |

### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water fog. Foam. Dry chemical. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use water jet.                          |

### 5.2. Specific hazards arising from the chemical

|             |                                                                                                     |
|-------------|-----------------------------------------------------------------------------------------------------|
| Fire hazard | : Products of combustion may include, and are not limited to: oxides of carbon. Irritating vapours. |
|-------------|-----------------------------------------------------------------------------------------------------|

### 5.3. Special protective equipment and precautions for fire-fighters

|                                |                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Protection during firefighting | : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------|

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                  |                                                                                                                                      |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

|                         |                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment. |
| Methods for cleaning up | : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.                                                                                                                                                  |

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |                                                                                                                                                                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Avoid contact with skin. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Ensure adequate ventilation. Wear appropriate PPE (see Section 8). |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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Hygiene measures : Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash hands, forearms and face thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place.

Incompatible materials : Refer to Section 10 on Incompatible Materials.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| SANI-PAK Toilet Deodorant Clear Concentrate                                                                |                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| No additional information available                                                                        |                                                                                                                                                 |
| Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates (68130-47-2) |                                                                                                                                                 |
| No additional information available                                                                        |                                                                                                                                                 |
| Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)- (54464-57-2)                   |                                                                                                                                                 |
| No additional information available                                                                        |                                                                                                                                                 |
| Terpenes and Terpenoids, sweet orange-oil (68647-72-3)                                                     |                                                                                                                                                 |
| No additional information available                                                                        |                                                                                                                                                 |
| .beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt (14960-06-6)                                |                                                                                                                                                 |
| No additional information available                                                                        |                                                                                                                                                 |
| Alcohols, C9-11, ethoxylated (68439-46-3)                                                                  |                                                                                                                                                 |
| No additional information available                                                                        |                                                                                                                                                 |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)                                                       |                                                                                                                                                 |
| No additional information available                                                                        |                                                                                                                                                 |
| Citral (5392-40-5)                                                                                         |                                                                                                                                                 |
| USA - ACGIH - Occupational Exposure Limits                                                                 |                                                                                                                                                 |
| ACGIH OEL TWA                                                                                              | 5 ppm (inhalable fraction and vapor)                                                                                                            |
| ACGIH chemical category                                                                                    | Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer |
| 3(2H)-Isothiazolone, 2-methyl- (2682-20-4)                                                                 |                                                                                                                                                 |
| No additional information available                                                                        |                                                                                                                                                 |
| 2-Bromo-2-nitro-1,3-propanediol (52-51-7)                                                                  |                                                                                                                                                 |
| No additional information available                                                                        |                                                                                                                                                 |

### Exposure limit values for the other components

| Ethylene oxide (75-21-8)                   |                            |
|--------------------------------------------|----------------------------|
| USA - ACGIH - Occupational Exposure Limits |                            |
| ACGIH OEL TWA                              | 1 ppm                      |
| ACGIH chemical category                    | Suspected Human Carcinogen |

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| Ethylene oxide (75-21-8)                   |                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USA - ACGIH - Biological Exposure Indices  |                                                                                                                                                                                                                                                                                                                                                  |
| BEI                                        | Parameter: N-(2-Hydroxyethyl)valine (HEV) hemoglobin adducts - Medium: blood - Sampling time: not critical (applies to workers having representative Ethylene oxide exposure during the previous 120 days)<br>Parameter: S-(2-Hydroxyethyl)mercapturic acid (HEMA) - Medium: urine - Sampling time: end of shift (nonspecific, population based) |
| USA - OSHA - Occupational Exposure Limits  |                                                                                                                                                                                                                                                                                                                                                  |
| OSHA PEL TWA                               | 1 ppm                                                                                                                                                                                                                                                                                                                                            |
| OSHA PEL STEL                              | 5 ppm (see 29 CFR 1910.1047)                                                                                                                                                                                                                                                                                                                     |
| Remark (OSHA)                              | Ethylene Oxide is subject to the standard 29 CFR 1910.1047, which may contain specific requirements for handling including protective equipment, regulated areas, monitoring and medical surveillance. The employer should review the standard and assure compliance with applicable requirements.                                               |
| USA - IDLH - Occupational Exposure Limits  |                                                                                                                                                                                                                                                                                                                                                  |
| IDLH                                       | 800 ppm                                                                                                                                                                                                                                                                                                                                          |
| USA - NIOSH - Occupational Exposure Limits |                                                                                                                                                                                                                                                                                                                                                  |
| NIOSH REL TWA                              | 0.18 mg/m <sup>3</sup> (less than stated value)                                                                                                                                                                                                                                                                                                  |
|                                            | 0.1 ppm (less than stated value)                                                                                                                                                                                                                                                                                                                 |
| NIOSH REL C                                | 9 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                              |
|                                            | 5 ppm                                                                                                                                                                                                                                                                                                                                            |

### 8.2. Appropriate engineering controls

|                                  |                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | : Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers. |
| Environmental exposure controls  | : Avoid release to the environment.                                                                             |

### 8.3. Individual protection measures/Personal protective equipment

|                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hand protection:</b>                                                                                                                                                                                                                                                                                                                                                                                                             |
| Wear suitable gloves resistant to chemical penetration. Consult glove manufacturer's product information on material suitability and material thickness.                                                                                                                                                                                                                                                                            |
| <b>Eye protection:</b>                                                                                                                                                                                                                                                                                                                                                                                                              |
| Wear eye/face protection                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Skin and body protection:</b>                                                                                                                                                                                                                                                                                                                                                                                                    |
| Wear suitable protective clothing                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Respiratory protection:</b>                                                                                                                                                                                                                                                                                                                                                                                                      |
| In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment. |

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|                                                                                |                                                                          |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Physical state                                                                 | : Liquid                                                                 |
| Colour                                                                         | : Colourless                                                             |
| Odour                                                                          | : Pleasant                                                               |
| Odour threshold                                                                | : No data available                                                      |
| pH                                                                             | : 4 – 6                                                                  |
| Melting point                                                                  | : $\leq 32\text{ }^{\circ}\text{F}$ ( $\leq 0\text{ }^{\circ}\text{C}$ ) |
| Freezing point                                                                 | : No data available                                                      |
| Boiling point                                                                  | : $212\text{ }^{\circ}\text{F}$ ( $100\text{ }^{\circ}\text{C}$ )        |
| Flash point                                                                    | : $> 199.4\text{ }^{\circ}\text{F}$ ( $> 93.0\text{ }^{\circ}\text{C}$ ) |
| Relative evaporation rate (butylacetate=1)                                     | : No data available                                                      |
| Flammability                                                                   | : Not flammable.                                                         |
| Vapour pressure                                                                | : No data available                                                      |
| Relative vapour density at $20^{\circ}\text{C}$ / $68\text{ }^{\circ}\text{F}$ | : No data available                                                      |
| Relative density                                                               | : $\geq 1\text{ g/cm}^3$                                                 |
| Solubility                                                                     | : Water: Soluble                                                         |
| Partition coefficient n-octanol/water                                          | : No data available                                                      |
| Auto-ignition temperature                                                      | : No data available                                                      |
| Decomposition temperature                                                      | : No data available                                                      |
| Viscosity, kinematic                                                           | : No data available                                                      |
| Viscosity, dynamic                                                             | : No data available                                                      |
| Explosive limits                                                               | : No data available                                                      |
| Explosive properties                                                           | : No data available                                                      |
| Oxidising properties                                                           | : No data available                                                      |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 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

Heat. Incompatible materials.

#### 10.5. Incompatible materials

Strong oxidizers.

#### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Irritating vapours.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Not classified.  
Acute toxicity (inhalation) : Not classified.

| SANI-PAK Toilet Deodorant Clear Concentrate          |                                                                                            |
|------------------------------------------------------|--------------------------------------------------------------------------------------------|
| ATE CA (oral)                                        | 992.361 mg/kg bodyweight                                                                   |
| Unknown acute toxicity (GHS CA)                      | 4.15% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)            |
| Citral (5392-40-5)                                   |                                                                                            |
| LD50 oral rat                                        | 4960 mg/kg (Source: NLM_CIP)                                                               |
| LD50 dermal rat                                      | > 2000 mg/kg bodyweight Animal: rat                                                        |
| LD50 dermal rabbit                                   | 2250 mg/kg (Source: NLM_CIP)                                                               |
| ATE CA (oral)                                        | 4960 mg/kg bodyweight                                                                      |
| ATE CA (Dermal)                                      | 2250 mg/kg bodyweight                                                                      |
| Alcohols, C9-11, ethoxylated (68439-46-3)            |                                                                                            |
| LD50 oral rat                                        | 1400 mg/kg (Source: NZ_CCID)                                                               |
| LD50 dermal rat                                      | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LC50 inhalation rat                                  | > 1.6 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)      |
| ATE CA (oral)                                        | 1400 mg/kg bodyweight                                                                      |
| 3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4) |                                                                                            |
| LD50 oral rat                                        | 481 mg/kg (Source: IUCLID)                                                                 |
| LC50 inhalation rat                                  | 1.23 mg/l/4h                                                                               |
| ATE CA (oral)                                        | 5 mg/kg bodyweight                                                                         |
| ATE CA (Gases)                                       | 100 ppmv/4h                                                                                |
| ATE CA (vapours)                                     | 1.23 mg/l/4h                                                                               |
| ATE CA (dust,mist)                                   | 1.23 mg/l/4h                                                                               |
| 3(2H)-Isothiazolone, 2-methyl- (2682-20-4)           |                                                                                            |
| LD50 oral rat                                        | 120 mg/kg (Source: EU_CLH)                                                                 |
| LD50 dermal rabbit                                   | 200 mg/kg (Source: NLM_HSDB)                                                               |
| LC50 inhalation rat                                  | 0.11 mg/l/4h                                                                               |
| ATE CA (oral)                                        | 120 mg/kg bodyweight                                                                       |
| ATE CA (Dermal)                                      | 200 mg/kg bodyweight                                                                       |
| ATE CA (Gases)                                       | 100 ppmv/4h                                                                                |
| ATE CA (vapours)                                     | 0.11 mg/l/4h                                                                               |
| ATE CA (dust,mist)                                   | 0.11 mg/l/4h                                                                               |
| 2-Bromo-2-nitro-1,3-propanediol (52-51-7)            |                                                                                            |
| LD50 oral rat                                        | 180 mg/kg (Source: NLM_CIP)                                                                |
| LD50 dermal rat                                      | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

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| 2-Bromo-2-nitro-1,3-propanediol (52-51-7)                                   |                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 inhalation rat                                                         | > 5 g/m³ (Exposure time: 6 h Source: NLM_CIP)                                                                                                                                                                    |
| ATE CA (oral)                                                               | 180 mg/kg bodyweight                                                                                                                                                                                             |
| ATE CA (Dermal)                                                             | 1100 mg/kg bodyweight                                                                                                                                                                                            |
| Skin corrosion/irritation                                                   | : Causes skin irritation.<br>pH: 4 – 6                                                                                                                                                                           |
| Serious eye damage/irritation                                               | : Causes serious eye damage.<br>pH: 4 – 6                                                                                                                                                                        |
| Respiratory or skin sensitisation                                           | : May cause an allergic skin reaction.                                                                                                                                                                           |
| Germ cell mutagenicity                                                      | : Not classified.                                                                                                                                                                                                |
| Carcinogenicity                                                             | : Not classified.                                                                                                                                                                                                |
| Citral (5392-40-5)                                                          |                                                                                                                                                                                                                  |
| NOAEL (chronic, oral, animal/male, 2 years)                                 | 60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type: toxicity (migrated information) |
| Reproductive toxicity                                                       | : Not classified.                                                                                                                                                                                                |
| STOT-single exposure                                                        | : Not classified.                                                                                                                                                                                                |
| 2-Bromo-2-nitro-1,3-propanediol (52-51-7)                                   |                                                                                                                                                                                                                  |
| STOT-single exposure                                                        | May cause respiratory irritation.                                                                                                                                                                                |
| STOT-repeated exposure                                                      | : Not classified.                                                                                                                                                                                                |
| Citral (5392-40-5)                                                          |                                                                                                                                                                                                                  |
| LOAEC (inhalation, rat, gas, 90 days)                                       | 68 ppm Animal: rat, Animal sex: female                                                                                                                                                                           |
| NOAEL (oral, rat, 90 days)                                                  | 100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)                                                                                            |
| NOAEC (inhalation, rat, gas, 90 days)                                       | 34 ppm Animal: rat, Animal sex: female                                                                                                                                                                           |
| NOAEL (subchronic, oral, animal/male, 90 days)                              | 60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)                                                                         |
| .beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt (14960-06-6) |                                                                                                                                                                                                                  |
| NOAEL (oral, rat, 90 days)                                                  | 160 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:                         |
| Alcohols, C9-11, ethoxylated (68439-46-3)                                   |                                                                                                                                                                                                                  |
| NOAEL (oral, rat, 90 days)                                                  | ≥ 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)                                                                                                |
| 3(2H)-Isothiazolone, 2-methyl- (2682-20-4)                                  |                                                                                                                                                                                                                  |
| LOAEL (oral, rat, 90 days)                                                  | 71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: other:                                                                        |
| Aspiration hazard                                                           | : Not classified.                                                                                                                                                                                                |
| Symptoms/effects after inhalation                                           | : May cause irritation to the respiratory tract.                                                                                                                                                                 |
| Symptoms/effects after skin contact                                         | : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.<br>May cause an allergic skin reaction.                                                                      |
| Symptoms/effects after eye contact                                          | : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.                                 |
| Symptoms/effects after ingestion                                            | : Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.                                                                                                                    |
| Other information                                                           | : Likely routes of exposure: ingestion, inhalation, skin and eye.                                                                                                                                                |

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

##### Citral (5392-40-5)

|                      |                                                    |
|----------------------|----------------------------------------------------|
| LC50 - Fish [1]      | 6.78 mg/l Test organisms (species): Leuciscus idus |
| EC50 - Crustacea [1] | 6.8 mg/l Test organisms (species): Daphnia magna   |

##### .beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt (14960-06-6)

|                      |                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | 4.2 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)   |
| EC50 - Crustacea [1] | 1.71 mg/l Test organisms (species): Daphnia magna                                         |
| LC50 - Fish [2]      | ≈ 4.2 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [2] | 5.7 mg/l Test organisms (species): Daphnia magna                                          |

##### Alcohols, C9-11, ethoxylated (68439-46-3)

|                      |                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | 5 – 7 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | 2.5 mg/l Test organisms (species): Daphnia magna                                          |

##### 3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)

|                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| LC50 - Fish [1]      | 1.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])   |
| EC50 - Crustacea [1] | 4.71 mg/l (Exposure time: 48 h - Species: Daphnia magna)                      |
| EC50 - Crustacea [2] | 0.12 – 0.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through]) |

##### 3(2H)-Isothiazolone, 2-methyl- (2682-20-4)

|                      |                                                                                          |
|----------------------|------------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | 4.77 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | 1.6 mg/l Test organisms (species): Daphnia magna                                         |

##### 2-Bromo-2-nitro-1,3-propanediol (52-51-7)

|                      |                                                                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------|
| EC50 - Crustacea [1] | 1.4 mg/l Test organisms (species): Daphnia magna                                                          |
| LOEC (chronic)       | 0.88 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                        |
| NOEC (chronic)       | 0.27 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                        |
| NOEC chronic fish    | 21.5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '49 d' |

#### 12.2. Persistence and degradability

##### SANI-PAK Toilet Deodorant Clear Concentrate

|                               |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

#### 12.3. Bioaccumulative potential

##### SANI-PAK Toilet Deodorant Clear Concentrate

|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

##### Citral (5392-40-5)

|                                       |                 |
|---------------------------------------|-----------------|
| Partition coefficient n-octanol/water | 2.76 (at 25 °C) |
|---------------------------------------|-----------------|

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| <b>.beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt (14960-06-6)</b> |                           |
|------------------------------------------------------------------------------------|---------------------------|
| Partition coefficient n-octanol/water                                              | ≤ -2.12 (at 20 °C)        |
| <b>3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)</b>                        |                           |
| Partition coefficient n-octanol/water                                              | -0.71 – 0.75 (at 20 °C)   |
| <b>3(2H)-Isothiazolone, 2-methyl- (2682-20-4)</b>                                  |                           |
| Partition coefficient n-octanol/water                                              | -0.26 (at 20 °C (at pH 5) |
| <b>2-Bromo-2-nitro-1,3-propanediol (52-51-7)</b>                                   |                           |
| Partition coefficient n-octanol/water                                              | 0.22 (at 24 °C (at pH 7)  |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : No other effects known.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. The generation of waste should be avoided or minimized wherever possible.

## SECTION 14: Transport information

In accordance with DOT / TDG

### 14.1. UN number

DOT NA No : Not applicable  
UN-No. (TDG) : UN3082

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable  
Proper Shipping Name (TDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Bromo-2-nitro-1,3-propanediol ; Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-)

### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : Not applicable

#### TDG

Transport hazard class(es) (TDG) : 9  
Hazard labels (TDG) : 9



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### 14.4. Packing group

Packing group (DOT) : Not applicable  
Packing group (TDG) : III

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1 Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

### 15.2. International regulations

No additional information available

### 15.3. US State regulations

 **WARNING:** This product can expose you to Acetaldehyde, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SECTION 16: Other information

According to the Hazard Communication Standard and the Hazardous Products Regulations (HPR) WHMIS

Revision date : 06/28/2024  
Other information : None.  
Prepared by : Nexreg Compliance Inc.  
[www.Nexreg.com](http://www.Nexreg.com)



| Full text of H-statements |                                               |
|---------------------------|-----------------------------------------------|
| Acute Tox. 4 (Oral)       | Acute toxicity (oral), Category 4             |
| Eye Dam. 1                | Serious eye damage/eye irritation, Category 1 |
| Skin Irrit. 2             | Skin corrosion/irritation, Category 2         |
| Skin Sens. 1A             | Skin sensitisation, Category 1A               |

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