SANI-PAK Toilet Deodorant Concentrate

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.
Issue date: 6/28/2024 Revision date: 6/28/2024 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Trade name : SANI-PAK Toilet Deodorant Concentrate
Product code : Formula : LG-97000M
Part No: SP-97000/QT/D

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Use of the substance/mixture : Deodorizer.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier
Celeste Industries Corporation
8007 Industrial Park Road
Easton, Maryland 21601 USA
T 1-410-822-5775
info@celestecorp.com - www.celestecorp.com

Distributor
Celeste Industries
400 Thames Valley Park Drive
RG6 1PT Reading, Berkshire
England
T +44 (0) 1189 637930

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: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GB CLP (SI 2019:720 as amended)

Corrosive to metals, Category 1	H290
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, category 1A	H317
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to GB CLP (SI 2019:720 as amended)

Hazard pictograms (GB CLP) :

GHS05 GHS07 GHS09

Signal word (GB CLP) : Danger

Contains	:	Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates; Octanal, 2-(phenylmethylene)-; Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-; Terpenes and Terpenoids, sweet orange-oil; .beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt; Alcohols, C9-11, ethoxylated; 3(2H)-Isothiazolone, 5-chloro-2-methyl-; 3(2H)-Isothiazolone, 2-methyl-; 2-Bromo-2-nitro-1,3-propanediol
Hazard statements (GB CLP)	:	H290 - May be corrosive to metals. H302 - Harmful if swallowed. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (GB CLP)	:	P261 - Avoid breathing dust, fume, gas, mist, vapours or spray. P264 - Wash hands, forearms and face thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, eye protection, face protection and hearing protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P391 - Collect spillage.
Unknown acute toxicity (GB CLP) - SDS	:	1.65% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 1.65% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 3.58% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))
Unknown hazards to the aquatic environment (GB CLP)	:	Contains 1 % of components with unknown hazards to the aquatic environment

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII
This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
Alcohols, C9-11, ethoxylated	CAS-No.: 68439-46-3 EC-No.: 614-482-0	5 - 10	Acute Tox. 4 (Oral), H302 (ATE=1400 mg/kg bodyweight) Eye Dam. 1, H318
2-Bromo-2-nitro-1,3-propanediol	CAS-No.: 52-51-7 EC-No.: 200-143-0	1 - 5	Acute Tox. 4 (Oral), H302 (ATE=180 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400
.beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt	CAS-No.: 14960-06-6 EC-No.: 239-032-7	1 - 5	Skin Irrit. 2, H315 Eye Dam. 1, H318

Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates	CAS-No.: 68130-47-2 EC-No.: 614-291-2	0.1 - 1	Skin Corr. 1C, H314 Eye Dam. 1, H318
Octanal, 2-(phenylmethylene)- (Fragrance)	CAS-No.: 101-86-0 EC-No.: 202-983-3	0.1 - 1	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
3(2H)-Isothiazolone, 5-chloro-2-methyl-	CAS-No.: 26172-55-4 EC-No.: 247-500-7	0.1 - 1	Acute Tox. 2 (Oral), H300 (ATE=5 mg/kg bodyweight) Acute Tox. 2 (Dermal), H310 (ATE=50 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-	CAS-No.: 54464-57-2 EC-No.: 259-174-3	0.1 - 1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
Terpenes and Terpenoids, sweet orange-oil	CAS-No.: 68647-72-3 EC-No.: 614-678-6	0.1 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-tert-Butylcyclohexyl acetate	CAS-No.: 32210-23-4 EC-No.: 250-954-9	0.1 - 1	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Citral	CAS-No.: 5392-40-5 EC-No.: 226-394-6	0.1 - 1	Skin Irrit. 2, H315 Skin Sens. 1, H317
3(2H)-Isothiazolone, 2-methyl-	CAS-No.: 2682-20-4 EC-No.: 220-239-6	0.1 - 1	Acute Tox. 3 (Oral), H301 (ATE=120 mg/kg bodyweight) Acute Tox. 2 (Dermal), H310 (ATE=200 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317

Full text of H- and EUH-statements: see section 16

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, both acute and delayed

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water fog. Foam. Dry chemical. Carbon dioxide.

Unsuitable extinguishing media : Do not use water jet.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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. Notify authorities if product enters sewers or public waters. Avoid release to the environment. Collect spillage.

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).
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.

7.3. Specific end use(s)

Deodorizer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:
Safety eyewear complying with an approved standard such as the European Standard EN166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing

Hand protection:
Chemical resistant gloves (according to European standard NF ISO 374-1 or equivalent). Consult glove manufacturer's product information on material suitability and material thickness.

8.2.2.3. Respiratory protection

Respiratory protection:
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.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Colourless.
Odour	:	Pleasant.
Odour threshold	:	Not available
Melting point	:	<= 0 °C
Freezing point	:	Not available
Boiling point	:	100 °
Flammability	:	Not flammable
Explosive limits	:	Not available
Flash point	:	> 93.0 °C
Auto-ignition temperature	:	Refer to component values below
Decomposition temperature	:	Not available
pH	:	4 – 6
Viscosity, kinematic	:	Not available
Solubility	:	Water: Soluble.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Refer to component values below
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	≥ 1 g/cm³
Relative vapour density at 20°C	:	Not available
Particle characteristics	:	Not applicable

Octanal, 2-(phenylmethylene)- (101-86-0)	
Flash point	> 100 °C

4-tert-Butylcyclohexyl acetate (32210-23-4)	
Boiling point	243 °C (at 1019 hPa)
Flash point	104 °C Atm. press.: 101325 Pa
Vapour pressure	7.9 Pa (at 25 °C)

Citral (5392-40-5)	
Boiling point	≈ 230 °C Atm. press.: 1013 hPa Decomposition: 'yes' Decomp. temp.: 180 °C
Flash point	91 °C (closed cup)
Auto-ignition temperature	225 °C
Vapour pressure	< 1 hPa (at 50 °C)

.beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt (14960-06-6)	
Boiling point	≥ 217 °C (at 1014 hPa)
Flash point	246 °C (closed cup)
Vapour pressure	≤ 0.45 Pa Temp.: 20 °C

Alcohols, C9-11, ethoxylated (68439-46-3)	
Boiling point	260 °C
Flash point	125 °C
Vapour pressure	117 Pa Temp.: 20 °C

3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)	
Boiling point	106.5 °C (at 1000 hPa)
Flash point	> 100 °C (closed cup)
Vapour pressure	20.8 hPa (at 20 °C)

3(2H)-Isothiazolone, 2-methyl- (2682-20-4)	
Boiling point	> 130 °C Atm. press.: 16 hPa Decomposition: 'yes' Decomp. temp.: 130 °C
Vapour pressure	0.99 Pa (at 20 °C)

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Corrosion rate : Corrosion rate over 6.25 mm/year or localized corrosion Greater than 0.120 mm in depth (any test specimen)

9.2.2. Other safety characteristics

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified. (Based on available data, the classification criteria are not met.)

Acute toxicity (inhalation) : Not classified. (Based on available data, the classification criteria are not met.)

SANI-PAK Toilet Deodorant Concentrate	
ATE GB CLP (oral)	664.404 mg/kg bodyweight

Octanal, 2-(phenylmethylene)- (101-86-0)	
LD50 oral rat	3100 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 3000 mg/kg (Source: EPA_HPV)
LC50 inhalation rat	> 5 mg/l/4h
ATE GB CLP (oral)	3100 mg/kg bodyweight

4-tert-Butylcyclohexyl acetate (32210-23-4)	
LD50 oral rat	5 g/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)

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)

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 GB CLP (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 GB CLP (oral)	5 mg/kg bodyweight
ATE GB CLP (dermal)	50 mg/kg bodyweight
ATE GB CLP (gases)	100 ppmv/4h
ATE GB CLP (vapours)	1.23 mg/l/4h
ATE GB CLP (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 GB CLP (oral)	120 mg/kg bodyweight
ATE GB CLP (dermal)	200 mg/kg bodyweight

3(2H)-Isothiazolone, 2-methyl- (2682-20-4)	
ATE GB CLP (gases)	100 ppmv/4h
ATE GB CLP (vapours)	0.11 mg/l/4h
ATE GB CLP (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)
LC50 inhalation rat	> 5 g/m³ (Exposure time: 6 h Source: NLM_CIP)
ATE GB CLP (oral)	180 mg/kg bodyweight
ATE GB CLP (dermal)	1100 mg/kg bodyweight

Unknown acute toxicity (GB CLP) - SDS : 1.65% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
5.23% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
7.4% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

Skin corrosion/irritation : Causes skin irritation.
pH: 4 – 6

3(2H)-Isothiazolone, 2-methyl- (2682-20-4)	
pH	2.58 Temp.: 25 °C Concentration: 50 g/L

Serious eye damage/irritation : Causes serious eye damage.
pH: 4 – 6

3(2H)-Isothiazolone, 2-methyl- (2682-20-4)	
pH	2.58 Temp.: 25 °C Concentration: 50 g/L

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified. (Based on available data, the classification criteria are not met.)

Carcinogenicity : Not classified. (Based on available data, the classification criteria are not met.)

Reproductive toxicity : Not classified. (Based on available data, the classification criteria are not met.)

STOT-single exposure : Not classified. (Based on available data, the classification criteria are not met.)

2-Bromo-2-nitro-1,3-propanediol (52-51-7)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified. (Based on available data, the classification criteria are not met.)

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP at a concentration equal to or greater than 0,1 %

11.2.2. Other information

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Unknown hazards to the aquatic environment (GB CLP) : Contains 1 % of components with unknown hazards to the aquatic environment

Hazardous to the aquatic environment, short–term (acute) : Very toxic to aquatic life.

Hazardous to the aquatic environment, long–term (chronic) : Harmful to aquatic life with long lasting effects.

.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)
LC50 - Fish [2]	≈ 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
EC50 - Crustacea [2]	5.7 mg/l Test organisms (species): Daphnia magna
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
EC50 72h - Algae [1]	103.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	19 mg/l (Species: Desmodesmus subspicatus)
4-tert-Butylcyclohexyl acetate (32210-23-4)	
LC50 - Fish [1]	8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static] Source: ECHA)
EC50 - Crustacea [1]	5.3 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	22 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
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

Alcohols, C9-11, ethoxylated (68439-46-3)	
EC50 96h - Algae [1]	1.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

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])
EC50 72h - Algae [1]	0.11 – 0.16 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	0.03 – 0.13 mg/l (Species: Pseudokirchneriella subcapitata [static])

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
EC50 72h - Algae [1]	0.25 mg/l Test organisms (species): Skeletonema costatum
EC50 72h - Algae [2]	0.37 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
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 Concentrate	
Persistence and degradability	Not established.

4-tert-Butylcyclohexyl acetate (32210-23-4)	
Partition coefficient n-octanol/water	4.8 (at 25 °C)

Citral (5392-40-5)	
Partition coefficient n-octanol/water	2.76 (at 25 °C)

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates (68130-47-2)	
Persistence and degradability	Rapidly degradable

4-tert-Butylcyclohexyl acetate (32210-23-4)	
Persistence and degradability	Rapidly degradable

Citral (5392-40-5)	
Persistence and degradability	Rapidly degradable

Octanal, 2-(phenylmethylene)- (101-86-0)	
Persistence and degradability	Rapidly degradable

Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)- (54464-57-2)	
Persistence and degradability	Rapidly degradable

Terpenes and Terpenoids, sweet orange-oil (68647-72-3)	
Persistence and degradability	Rapidly degradable

.beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt (14960-06-6)	
Persistence and degradability	Rapidly degradable

Alcohols, C9-11, ethoxylated (68439-46-3)	
Persistence and degradability	Rapidly degradable

3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)	
Persistence and degradability	Rapidly degradable

3(2H)-Isothiazolone, 2-methyl- (2682-20-4)	
Persistence and degradability	Rapidly degradable

2-Bromo-2-nitro-1,3-propanediol (52-51-7)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

SANI-PAK Toilet Deodorant Concentrate	
Bioaccumulative potential	Not established.

4-tert-Butylcyclohexyl acetate (32210-23-4)	
Partition coefficient n-octanol/water	4.8 (at 25 °C)

Citral (5392-40-5)	
Partition coefficient n-octanol/water	2.76 (at 25 °C)

.beta.-Alanine, N-(2-carboxyethyl)-N-dodecyl-, monosodium salt (14960-06-6)	
Partition coefficient n-octanol/water	≤ -2.12 (at 20 °C)

3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)	
Partition coefficient n-octanol/water	-0.71 – 0.75 (at 20 °C)

3(2H)-Isothiazolone, 2-methyl- (2682-20-4)	
Partition coefficient n-octanol/water	-0.26 (at 20 °C (at pH 5)

2-Bromo-2-nitro-1,3-propanediol (52-51-7)	
Partition coefficient n-octanol/water	0.22 (at 24 °C (at pH 7)

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

SANI-PAK Toilet Deodorant Concentrate
This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII
This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII

12.6. Other adverse effects

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP at a concentration equal to or greater than 0,1 %

Additional information : No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment 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 ADR / IMDG / IATA

14.1. UN number

UN-No. (ADR) : UN 3265

UN-No. (IMDG) : UN 3265

UN-No. (IATA) : UN 3265

14.2. UN proper shipping name

Proper Shipping Name (ADR) : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Proper Shipping Name (IMDG) : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Proper Shipping Name (IATA) : Corrosive liquid, acidic, organic, n.o.s.

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8

Danger labels (ADR) : 8

:

IMDG

Transport hazard class(es) (IMDG) : 8

Danger labels (IMDG) : 8

:

IATA

Transport hazard class(es) (IATA) : 8

Danger labels (IATA) : 8

:

14.4. Packing group

Packing group (ADR)	:	III
Packing group (IMDG)	:	III
Packing group (IATA)	:	III

14.5. Environmental hazards

Dangerous for the environment	:	Yes
Marine pollutant	:	Yes
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.

Overland transport

Orange plates :

EAC code : 2X

Transport by sea

No data available

Air transport

No data available

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)
Please see https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives_en

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. United Kingdom

British National Regulations : Not determined.

UK REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

UK REACH Candidate List (SVHC)

Contains substance(s) listed on the UK REACH Candidate List in concentrations ≥ 0.1 % or SCL: (EC 618-541-1, CAS 9036-19-5)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes (UK):
None.

Abbreviations and acronyms:	
	°C – Degrees Celsius °F – Degrees Fahrenheit ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road. ASTM: American Society for Testing and Materials ACGIH – American Conference of Governmental Industrial Hygienists ATE – Acute Toxicity Estimate BCF – Bioconcentration Factor BEI – Biological Exposure Index CAS – Chemical Abstracts Service CLP – Regulation (EC) No 1272/2008 on the Classification, Labeling and Packaging of substances and mixtures. CMR – Carcinogen, Mutagen, Reproductive toxin cP – centipoise (unit of dynamic viscosity) cSt – centistokes (unit of kinematic viscosity) DNEL – Derived No-effect Level DMEL – Derived Minimal Effect Level EC50 – Half maximal effective concentration ECHA – European Chemicals Agency EC-No. – European Community number EU – European Union GHS – Globally Harmonized System of Classification and Labelling of Chemicals h – Hours IATA – International Air Transport Association IC50 – Inhibition concentration IDLH – Immediately Dangerous to Life or Health IMDG – International Maritime Dangerous Goods IOELV – Indicative Occupational Exposure Limit Value KIFS – Swedish Chemicals Agency's (Keml's) Code of Statutes kPa – kilopascal Koc – Adsorption Coefficient Kow – Octanol-Water Partition Coefficient LC50 – Median Lethal Concentration LD50 – Median Lethal Dose LOAEL – Lowest Observed Adverse Effect level mg/l – Milligram per liter mg/kg – Milligram per kilogram mg/m3 – Milligram per cubic meter Min – Minutes NIOSH – National Institute for Occupational Safety and Health NOEC – No Observed Effect Concentration NO(A)EL – No Observed (Adverse) Effect Level N.O.S. – Not Otherwise Specified OEL – Occupational Exposure Limit

Abbreviations and acronyms:	
	PBT - Persistent, Bioaccumulative and Toxic PCN – Poison Centre Notification PNEC – Predicted No Effect Concentration ppm – Parts per million PVC – Polyvinyl chloride REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID – European Agreement concerning the International Carriage of Dangerous Goods by Rail SDS – Safety Data Sheet STEL – Short Term Exposure Limit STOT – Specific Target Organ Toxicity SVHC – Substance of Very High Concern (CMR, vPvB, PBT) TDI – Tolerable Daily Intake TLV – Threshold Limit Value TWA – Time Weighted Average UFI – Unique Formulation Identifier UN – United Nations vPvB - Very Persistent and Very Bioaccumulative WEL – Workplace Exposure Limit WGK – Wassergefahrdungklasse – German water quality classification

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Prepared by : Nexreg Compliance Inc.
www.Nexreg.com

Full text of H- and EUH-statements:	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
EUH071	Corrosive to the respiratory tract.
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
H226	Flammable liquid and vapour.
H300	Fatal if swallowed.

Full text of H- and EUH-statements:	
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.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Met. Corr. 1	H290	On basis of test data
Acute Tox. 4 (Oral)	H302	Calculation method
Skin Irrit. 2	H315	On basis of test data
Eye Dam. 1	H318	Calculation method
Skin Sens. 1A	H317	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 3	H412	Calculation method