

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

1.1. Product identifier

Product form : Mixture
Trade name : SANI-PAK Powder
Part number : (E)SP-77000 Series
Formula : SP/77000/4

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

Relevant identified uses

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

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

Wynn's Belgium BV
Industriepark-West 46
B-9100 Sint-Niklaas
Belgium
T 410-822-5775

1.4. Emergency telephone number

Emergency number : 070 245 245

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302
Skin Irrit. 2 H315
Eye Dam. 1 H318
Aquatic Acute 1 H400
Contains 4-tert-Butylcyclohexyl acetate, Octanal, 2-

(phenylmethylene)-, Benzenepropanal, .alpha.-methyl-4-(1-methylethyl)-, Benzene, 1-methoxy-4-(1-propenyl)-, (E)-, (-)-Menthone. May produce an allergic reaction.

Full text of hazard classes, 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 Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

GHS07

GHS09

Signal word (CLP) :

Danger

Contains :

2-Bromo-2-nitro-1,3-propanediol; Sodium nitrate

Hazard statements (CLP) :

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H400 - Very toxic to aquatic life.

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Precautionary statements (CLP)	: 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/hearing protection. P305+P351+P338+P310 - 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. P391 - Collect spillage. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	: EUH208 - Contains 4-tert-Butylcyclohexyl acetate, Octanal, 2-(phenylmethylene)-, Benzenepropanal, .alpha.-methyl-4-(1-methylethyl)-, Benzene, 1-methoxy-4-(1-propenyl)-, (E)-, (-)-Menthone. May produce an allergic reaction.
Unknown acute toxicity (CLP) - SDS	: 12.85% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 75.01% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
Unknown hazards to the aquatic environment (CLP)	: Contains 12.73 % of components with unknown hazards to the aquatic environment

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of 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 Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Bromo-2-nitro-1,3-propanediol	CAS-No.: 52-51-7 EC-No.: 200-143-0 EC Index-No.: 603-085-00-8	10 – 15	Acute Tox. 3 (Oral), H301 (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 (M=10)
Silica, amorphous, precipitated and gel substance with national workplace exposure limit(s) (BE)	CAS-No.: 112926-00-8 EC-No.: 601-214-2	5 – 10	Not classified.
Sodium nitrate	CAS-No.: 7631-99-4 EC-No.: 231-554-3	2 - 3	Ox. Sol. 3, H272 Acute Tox. 4 (Oral), H302 (ATE=1267 mg/kg bodyweight) Eye Irrit. 2, H319
4,7-Methano-1H-indenol, 3a,4,5,6,7,7a-hexahydro-, acetate	CAS-No.: 54830-99-8 EC-No.: 259-367-2	0.1 - 1.5	Aquatic Chronic 3, H412
4-tert-Butylcyclohexyl acetate	CAS-No.: 32210-23-4 EC-No.: 250-954-9	0.1 < 1	Skin Sens. 1B, H317
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

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Amyl salicylate	CAS-No.: 2050-08-0 EC-No.: 218-080-2	0.1 < 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 2, H411
Benzene, 1-methoxy-4-(1-propenyl)-, (E)-	CAS-No.: 4180-23-8 EC-No.: 224-052-0	0.1 < 1	Skin Sens. 1, H317 Aquatic Chronic 3, H412
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
(-)-Menthone	CAS-No.: 14073-97-3 EC-No.: 237-926-1	0.1 < 1	Skin Irrit. 2, H315 Skin Sens. 1B, H317
Benzenepropanal, .alpha.-methyl-4-(1-methylethyl)-	CAS-No.: 103-95-7 EC-No.: 203-161-7	0.1 < 1	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412

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 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 unless directed to do so by medical personnel. 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.
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	: Carbon dioxide (CO2). Dry chemical powder. Foam. Water fog.
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.
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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).
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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.

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters. Collect spillage. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain spill, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

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 breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

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.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Silica, amorphous, precipitated and gel (112926-00-8)

Belgium - Occupational Exposure Limits

OEL TWA	10 mg/m ³
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Recommended monitoring procedures

Monitoring methods

Monitoring methods	Consult the relevant monitoring standards for the region.
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8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

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

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Personal protection equipment

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.

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

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

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.

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	: Solid Powder.
Colour	: Blue.
Odour	: pleasant.
Odour threshold	: Not available
Melting point	: 60 °C / 140 °F
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not flammable
Explosive properties	: Not explosive.
Oxidising properties	: Not oxidising.
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: > 93 °C / 199.4 °F
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Soluble in water.
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	: 0.57
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available

4-tert-Butylcyclohexyl acetate (32210-23-4)

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

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

Amyl salicylate (2050-08-0)	
Boiling point	282 °C (at 1013.25 hPa)
Flash point	126 °C (closed cup)
Vapour pressure	0.24 Pa Temp.: 20 °C

Benzenepropanal, .alpha.-methyl-4-(1-methylethyl)- (103-95-7)	
Boiling point	234 °C Atm. press.: 101,325 kPa
Flash point	79.5 °C (closed cup)
Vapour pressure	0.3 Pa Temp.: 20 °C

Sodium nitrate (7631-99-4)	
Boiling point	380 °C (with decomposition)

Benzene, 1-methoxy-4-(1-propenyl)-, (E)- (4180-23-8)	
Boiling point	231 – 237 °C (at 1 atm)
Flash point	≈ 101 °C Atm. press.: 1 atm
Vapour pressure	≈ 5.45 Pa Temp.: 294 K

(-)-Menthone (14073-97-3)	
Boiling point	210.7 °C Atm. press.: 101,3 kPa
Flash point	74 °C Atm. press.: 101,3 kPa
Vapour pressure	80 Pa Temp.: 25 °C

9.2. Other information

Other safety characteristics

Burning time (s) : >180 Seconds (Test O.1 Test for oxidizing solids, 4:1 Sani-Pak Powder/Cellulose)
Burning time (s) : >180 Seconds (Test O.1 Test for oxidizing solids, 1:1 Sani-Pak Powder/Cellulose)

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.

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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.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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.)

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ATE CLP (oral)	1166.846 mg/kg bodyweight
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4-tert-Butylcyclohexyl acetate (32210-23-4)

LD50 oral rat	5 g/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)

Octanal, 2-(phenylmethylene)- (101-86-0)

LD50 oral rat	3100 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 3000 mg/kg (Source: EPA_HPVS)
LC50 inhalation rat	> 5 mg/l/4h

Amyl salicylate (2050-08-0)

LD50 oral rat	4100 mg/kg (Source: NZ_CCID)
LD50 dermal rabbit	> 5000 mg/kg (Source: CHEMVIEW)

Benzenepropanal, .alpha.-methyl-4-(1-methylethyl)- (103-95-7)

LD50 oral rat	3810 mg/kg (Source: NLM_CIP)
LD50 dermal rat	> 5000 mg/kg (Source: ECHA_API)

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/m ³ (Exposure time: 6 h Source: NLM_CIP)

Silica, amorphous, precipitated and gel (112926-00-8)

LD50 oral rat	> 5000 mg/kg (Source: JAPAN_GHS)
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Sodium nitrate (7631-99-4)

LD50 oral rat	1267 mg/kg (Source: JAPAN_GHS)
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

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Benzene, 1-methoxy-4-(1-propenyl)-, (E)- (4180-23-8)	
LD50 oral rat	2090 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 4900 mg/kg (Source: ECHA_API)
LC50 inhalation rat	> 5.1 mg/l/4h
LC50 inhalation rat	≥ ppm
Unknown acute toxicity (CLP) - SDS	: 12.85% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 75.01% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
Skin corrosion/irritation	: Causes skin irritation.
Sodium nitrate (7631-99-4)	
pH	7 Temp.: 25 °C
Serious eye damage/irritation	: Causes serious eye damage.
Sodium nitrate (7631-99-4)	
pH	7 Temp.: 25 °C
Respiratory or skin sensitisation	: Not classified. (Based on available data, the classification criteria are not met.)
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.)
Silica, amorphous, precipitated and gel (112926-00-8)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified. (Based on available data, the classification criteria are not met.)
Amyl salicylate (2050-08-0)	
NOAEL (animal/male, F0/P)	540 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]
NOAEL (animal/female, F0/P)	180 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]
Benzenepropanal, .alpha.-methyl-4-(1-methylethyl)- (103-95-7)	
NOAEL (animal/male, F0/P)	25 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]
NOAEL (animal/female, F0/P)	25 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]
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.)
Sodium nitrate (7631-99-4)	
NOAEL (oral, rat, 90 days)	≥ 1500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Benzene, 1-methoxy-4-(1-propenyl)-, (E)- (4180-23-8)	
NOAEL (oral, rat, 90 days)	≈ 300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Aspiration hazard	: Not classified. (Based on available data, the classification criteria are not met.)

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11.2. Information on other hazards

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 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 Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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 (CLP) : Contains 12.73 % 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) : Not classified. (Based on available data, the classification criteria are not met.)

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)

Amyl salicylate (2050-08-0)

LC50 - Fish [1]	1.34 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	0.88 mg/l Test organisms (species): Daphnia magna

Benzenepropanal, .alpha.-methyl-4-(1-methylethyl)- (103-95-7)

LC50 - Fish [1]	1.42 mg/l Test organisms (species):
LC50 - Fish [2]	2.49 mg/l Test organisms (species):
EC50 - Crustacea [1]	1.4 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	4.3 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	2.7 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	3.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [2]	2.7 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

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'

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2-Bromo-2-nitro-1,3-propanediol (52-51-7)	
NOEC chronic fish	21.5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '49 d'
Sodium nitrate (7631-99-4)	
LC50 - Fish [1]	2000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
LC50 - Fish [2]	994.4 – 1107 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
Benzene, 1-methoxy-4-(1-propenyl)-, (E)- (4180-23-8)	
LC50 - Fish [1]	≈ 7 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	≈ 4.25 mg/l Test organisms (species): Daphnia magna
LOEC (chronic)	≈ 2.44 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≈ 1.05 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
(-)-Menthone (14073-97-3)	
LC50 - Fish [1]	> 28 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	30.6 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	58 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
12.2. Persistence and degradability	
SANI-PAK Powder	
Persistence and degradability	Not established.
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates (68130-47-2)	
Persistence and degradability	Rapidly degradable
4,7-Methano-1H-indenol, 3a,4,5,6,7,7a-hexahydro-, acetate (54830-99-8)	
Persistence and degradability	Rapidly degradable
4-tert-Butylcyclohexyl acetate (32210-23-4)	
Persistence and degradability	Rapidly degradable
Octanal, 2-(phenylmethylene)- (101-86-0)	
Persistence and degradability	Rapidly degradable
Amyl salicylate (2050-08-0)	
Persistence and degradability	Rapidly degradable
Benzenepropanal, .alpha.-methyl-4-(1-methylethyl)- (103-95-7)	
Persistence and degradability	Rapidly degradable
2-Bromo-2-nitro-1,3-propanediol (52-51-7)	
Persistence and degradability	Rapidly degradable
Silica, amorphous, precipitated and gel (112926-00-8)	
Persistence and degradability	Rapidly degradable
Sodium nitrate (7631-99-4)	
Persistence and degradability	Rapidly degradable

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Benzene, 1-methoxy-4-(1-propenyl)-, (E)- (4180-23-8)

Persistence and degradability Rapidly degradable

(-)-Menthone (14073-97-3)

Persistence and degradability Rapidly degradable

12.3. Bioaccumulative potential

SANI-PAK Powder

Bioaccumulative potential Not established.

4-tert-Butylcyclohexyl acetate (32210-23-4)

Partition coefficient n-octanol/water 4.8 (at 25 °C)

Amyl salicylate (2050-08-0)

BCF - Fish [1] (1170 dimensionless (whole body w.w.))

Partition coefficient n-octanol/water 4.5 (at 30 °C)

Benzenepropanal, .alpha.-methyl-4-(1-methylethyl)- (103-95-7)

Partition coefficient n-octanol/water 3.4 (at 35 °C)

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

Partition coefficient n-octanol/water 0.22 (at 24 °C (at pH 7))

Sodium nitrate (7631-99-4)

Partition coefficient n-octanol/water -3.8 (at 25 °C)

(-)-Menthone (14073-97-3)

Partition coefficient n-octanol/water 3.05 (at 25 °C)

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

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 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 Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

Additional information

: No other effects known

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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 minimised wherever possible.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
Special provision(s) applied : 375	Exemption under IMDG code 2.10.2.7	Special provision(s) applied : A197
These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.		
14.1. UN number or ID number		
Not regulated for transport		
14.2. UN proper shipping name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
Environmentally hazardous substances derogation applies (quantity of liquids \leq 5 litres or net mass of solids \leq 5 kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1.		
No supplementary information available.		

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

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

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REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

Contains no REACH candidate substance.

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)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control 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)

ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS-No.	Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Sodium nitrate	7631-99-4	3102 50 00	ex 3824 99 96

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)

National regulations

Belgium

Belgian National Regulations : Not determined.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

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

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Abbreviations and acronyms:

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 (Kemli'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
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 – Wassergefährdungsklasse – 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.
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Full text of H- and EUH-statements:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
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Full text of H- and EUH-statements:	
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
EUH208	Contains 4-tert-Butylcyclohexyl acetate, Octanal, 2-(phenylmethylene)-, Benzenepropanal, .alpha.-methyl-4-(1-methylethyl)-, Benzene, 1-methoxy-4-(1-propenyl)-, (E)-, (-)-Menthone. May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
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.
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.
Ox. Sol. 3	Oxidising Solids, Category 3
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. 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]:		
Acute Tox. 4 (Oral)	H302	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Aquatic Acute 1	H400	Calculation method
EUH208	EUH208	Calculation method

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