VIRBA-SAN

SECTION 1: IDENTIFICATION

1.1 Product identifier: VIRBA-SAN

Other means of identification:

UFI Code: 77KD-ACQR-400G-CDNE

1.2 Recommended uses and any restrictions on use or supply:

Relevant uses: Disinfectant for agricultural use. For professional users/industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Supplier's details:

NV Roam Technology
Geleenlaan 24
3600 Genk - EMEA - Belgium
Phone: +32 89 44 00 42
info@roamtechnology.com
https://www.roamtechnology.com/

1.4 Emergency phone number: +32 89 44 00 42 (Mon - Fri, 8h - 16h)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture:

Hazardous Substances (Hazard Classification) Notice 2020.:

This product was classified in accordance with Hazardous Substances (Hazard Classification) Notice 2020.

Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412
Eye Dam. 1: Serious eye damage, Category 1, H318
Skin Corr. 1B: Skin corrosion, Category 1B, H315

2.2 Label elements, including precautionary statements:

Hazardous Substances (Hazard Classification) Notice 2020.:

Danger

Hazard statements:

Acute Tox. 4: H302 - Harmful if swallowed.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Skin Corr. 1B: H315 - Causes skin irritation.

Precautionary statements:

P264: Wash thoroughly after use.
P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.
P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Substances that contribute to the classification

Pentapotassium bis(peroxymonosulphate) bis(sulphate) (CAS: 70693-62-8) (30 - <60 %); Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (CAS: 68411-30-3) (10 - <30 %); Malic acid (CAS: 6915-15-7) (10 - <30 %); Sulphamidic acid (CAS: 5329-14-6) (<10 %)

Additional labeling:

Do not apply directly into or onto water.Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

2.3 Other hazards which do not result in classification:

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SECTION 2: HAZARD IDENTIFICATION (continued)

Not relevant

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Mixture composed of inorganic substances

Components:

In accordance with Part B: Concentration cut-offs for ingredients in mixtures for purpose of section 3 of Consolidated Hazardous Substances (Safety Data Sheets) Notice 2017, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 70693-62-8	**Pentapotassium bis(peroxymonosulphate) bis(sulphate)** Acute Tox. 4: H302; Aquatic Chronic 3: H412; Skin Corr. 1B: H314 - Danger	**30 - <60 %**
CAS: 68411-30-3	**Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts** Acute Tox. 4: H302; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	**10 - <30 %**
CAS: 6915-15-7	**Malic acid** Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	**10 - <30 %**
CAS: 5329-14-6	**Sulphamidic acid** Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	**<10 %**

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 First aid instructions according to each relevant route of exposure;:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Keep the person affected at rest.

4.2 Most important symptoms and effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of medical attention and its urgency:

Not relevant

SECTION 5: FIRE-FIGHTING MEASURES

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SECTION 5: FIRE-FIGHTING MEASURES (continued)

5.1 Information on the appropriate type of extinguishers or fire-fighting agents:

Appropriate type of extinguishers or fire-fighting agents:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Inappropriate type of extinguishers or fire-fighting agents:

Non-applicable

5.2 Advice on specific hazards that may arise from the substance:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions from accidental spills and release;:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Advice on how to contain and clean up a spill or release:

It is recommended:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Preferably use aspiration for cleaning. Given the danger of the product by inhalation, any cleaning method that involves exposure to the product in this way (sweeping, etc.) is not recommended

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

CONTINUED ON NEXT PAGE

SECTION 7: HANDLING AND STORAGE (continued)

Minimum Temp.: 5 ºC

Maximum Temp.: 30 ºC

Maximum time: 36 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Occupational exposure limits:

Substances whose workplace exposure standards (WES) have to be monitored in the work environment:

Workplace exposure standards (WES) and biological exposure indices, Edition 12-1:

Identification	Occupational exposure limits		
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	TWA	5 ppm	28 mg/m³
CAS: 13466-78-9	STEL	10 ppm	56 mg/m³
Pin-2(3)-ene	TWA	5 ppm	28 mg/m³
CAS: 80-56-8	STEL	10 ppm	56 mg/m³

Particulates not otherwise classified: TWA = 10 mg/m3 // TWA (respirable) = 3 mg/m3

8.2 Engineering controls:

A.- Identification of the specific types of personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.
All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Remarks
 Compulsory use of face mask	Filter mask for particles	Replace when an increase in resistence to breathing is observed.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Butyl, Breakthrough time: > 480 min, Thickness: 0.5 mm)	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
 Mandatory face protection	Face shield	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing.

E.- Bodily protection

CONTINUED ON NEXT PAGE

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks	For professional use only. Clean periodically according to the manufacturer´s instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 ºC:	Solid
Appearance:	Granulated
Colour:	Characteristic, Pink
Odour:	Undefined
Odour threshold:	Not relevant *

Volatility:

Initial boiling point and boiling range:	Not relevant *
Vapour pressure at 20 ºC:	Not relevant *
Vapour pressure at 50 ºC:	Not relevant *
Evaporation rate at 20 ºC:	Not relevant *

Product description:

Density at 20 ºC:	1740.6 kg/m³
Relative density at 20 ºC:	1.741
Dynamic viscosity at 20 ºC:	Not relevant *
Kinematic viscosity at 20 ºC:	Not relevant *
Kinematic viscosity at 40 ºC:	Not relevant *
Concentration:	Not relevant *
pH:	1.06 - 3.06 (at 1 %)
Vapour density at 20 ºC:	Not relevant *
Partition coefficient n-octanol/water 20 ºC:	Not relevant *
Solubility in water at 20 ºC:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Melting point/freezing point:	Not relevant *
Flammability:	
Flash Point:	Non-applicable
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	202 ºC
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *
Explosive (Solid):	
Lower explosive limit:	Not relevant *
Upper explosive limit:	Not relevant *
Particle characteristics:	
Median equivalent diameter:	Not relevant *

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *
Other safety characteristics:	
Surface tension at 20 ºC:	Not relevant *
Refraction index:	Not relevant *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Chemical reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 List of conditions to avoid or prevent a hazardous situation:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Information on incompatible substances or materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6 Information on hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: Mixture based on inorganic substances.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  IARC: C.I.Acid Red 27 (3); d-limonene (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Malic acid	LD50 oral	3500 mg/kg	Rat
CAS: 6915-15-7	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	LD50 oral	1260 mg/kg (ATEi)	Rat
CAS: 68411-30-3	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
Pentapotassium bis(peroxymonosulphate) bis(sulphate) CAS: 70693-62-8	LD50 oral	500 mg/kg (ATEi)	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	
Sulphamidic acid CAS: 5329-14-6	LD50 oral	3160 mg/kg	Rat
	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>5 mg/L	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	831.69 mg/kg (Calculation method)	0 %
Dermal	>5000 mg/kg (Calculation method)	Non-applicable
Inhalation	>5 mg/L (4 h) (Calculation method)	Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Harmful to aquatic life with long lasting effects.

12.1 Ecotoxicity (aquatic and terrestrial):

Acute toxicity:

Identification	Concentration		Species	Genus
Pentapotassium bis(peroxymonosulphate) bis(sulphate) CAS: 70693-62-8	LC50	53 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	Not relevant		
	EC50	Not relevant		
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS: 68411-30-3	LC50	1.67 mg/L (96 h)	Lepomis macrochirus	Fish
	EC50	2.9 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	29 mg/L (96 h)	Selenastrum capricornutum	Algae
Malic acid CAS: 6915-15-7	LC50	Not relevant		
	EC50	240 mg/L (48 h)	Daphnia sp.	Crustacean
	EC50	Not relevant		
Sulphamidic acid CAS: 5329-14-6	LC50	70.3 mg/L (96 h)	Pimephales promelas	Fish
	EC50	Not relevant		
	EC50	Not relevant		

Chronic toxicity:

Identification	Concentration		Species	Genus
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS: 68411-30-3	NOEC	0.23 mg/L	Oncorhynchus mykiss	Fish
	NOEC	1.18 mg/L	Daphnia magna	Crustacean
Sulphamidic acid CAS: 5329-14-6	NOEC	0.025 mg/L	Jordanella floridae	Fish
	NOEC	0.15 mg/L	Tantytarsus dissimilis	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS: 68411-30-3	BOD5	Not relevant	Concentration	34.3 mg/L
	COD	Not relevant	Period	29 days
	BOD5/COD	Not relevant	% Biodegradable	89 %
Malic acid CAS: 6915-15-7	BOD5	Not relevant	Concentration	100 mg/L
	COD	Not relevant	Period	14 days
	BOD5/COD	Not relevant	% Biodegradable	99 %

12.3 Potential to be bioaccumulative:

Substance-specific information:

CONTINUED ON NEXT PAGE

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS: 68411-30-3	BCF	2
	Pow Log	3.32
	Potential	Low
Malic acid CAS: 6915-15-7	BCF	3
	Pow Log	-1.26
	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Pentapotassium bis(peroxymonosulphate) bis(sulphate) CAS: 70693-62-8	Koc	18	Henry	2.87E-7 Pa·m³/mol
	Conclusion	Very High	Dry soil	No
	Surface tension	Not relevant	Moist soil	No
Malic acid CAS: 6915-15-7	Koc	Not relevant	Henry	8.55E-8 Pa·m³/mol
	Conclusion	Not relevant	Dry soil	No
	Surface tension	1.211E-2 N/m (318.93 ºC)	Moist soil	No

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Appropriate and achievable disposal methods:

Special precautions to be taken during disposal:

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

Consolidated Imports and Exports (Restrictions) Prohibition Order (No 2) 2004
Consolidated Hazardous Substances (Disposal) Notice 2017

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to NZS 5433.1:2012 Transport of dangerous goods on land

14.1 UN number: UN3260

14.2 UN proper shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Pentapotassium bis(peroxymonosulphate) bis(sulphate))

14.3 UN dangerous goods class and subsidiary risk: 8

Labels: 8

14.4 UN Packing Group: II

14.5 Environmental hazards: No

14.6 Special precautions for user

Physico-Chemical properties: see section 9

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not relevant

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

CONTINUED ON NEXT PAGE

SECTION 14: TRANSPORT INFORMATION (continued)

14.1	**UN number:**	UN3260
14.2	**UN proper shipping name:**	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Pentapotassium bis(peroxymonosulphate) bis(sulphate))
14.3	**UN dangerous goods class and subsidiary risk:**	8
	Labels:	8
14.4	**UN Packing Group:**	II
14.5	**Marine pollutant:**	No
14.6	**Special precautions for user**	
	Special regulations:	274
	EmS Codes:	F-A, S-B
	Physico-Chemical properties:	see section 9
	Limited quantities:	1 kg
	Segregation group:	SGG1
14.7	**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:**	Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

14.1	**UN number:**	UN3260
14.2	**UN proper shipping name:**	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Pentapotassium bis(peroxymonosulphate) bis(sulphate))
14.3	**UN dangerous goods class and subsidiary risk:**	8
	Labels:	8
14.4	**UN Packing Group:**	II
14.5	**Environmental hazards:**	No
14.6	**Special precautions for user**	
	Physico-Chemical properties:	see section 9
14.7	**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:**	Not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

- Substances listed in the Montreal Protocol: Not relevant
- Substances listed in the Rotterdam Convention: Not relevant
- Substances listed in the Stockholm Convention: Not relevant

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Relevant regulatory requirements:

Health and Safety at Work (Hazardous Substances) Regulations 2017
Health and Safety at Work Act 2015
Consolidated Hazardous Substances (Labelling) Notice 2017
Consolidated Hazardous Substances (Packaging) Notice 2017
Consolidated Hazardous Substances (Hazardous Property Controls) Notice 2017
Consolidated Hazardous Substances (Importers and Manufacturers) Notice 2015

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Schedule: Content and format of safety data sheets (clause 7) of Consolidated Hazardous Substances (Safety Data Sheets) Notice 2017

CONTINUED ON NEXT PAGE

SECTION 16: OTHER INFORMATION (continued)

Texts of the legislative phrases mentioned in section 2:

H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H412: Harmful to aquatic life with long lasting effects.
H302: Harmful if swallowed.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

Hazardous Substances (Hazard Classification) Notice 2020.:

Acute Tox. 4: H302 - Harmful if swallowed.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Eye Dam. 1: H318 - Causes serious eye damage.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Irrit. 2: H315 - Causes skin irritation.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

https://www.epa.govt.nz/

Abbreviations and acronyms:

HSNO Act: Hazardous substances and new organisms Act
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon
IARC: International Agency for Research on Cancer

END OF SAFETY DATA SHEET