



## SECTION 1: IDENTIFICATION

#### 1.1 Product identifier:

# ES25 - DISINFECTANT

## Other means of identification:

ES25

## 1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Disinfectant cleaner

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

#### 1.3 Initial supplier identifier:

Charlotte Products Ltd. 2060 Fisher Drive K9J 6X6 Peterborough - Ontario - Canada Phone: 705-740-2880 - Fax: 705-745-1239 www.charlotteproducts.com

1.4 Emergency phone number: Infotrac 1-800-535-5053 (North America), 011-1-352-323-3500 (International)

## SECTION 2: HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture:

### WHMIS 2015:

Classification of this product has been carried out in accordance with Part 2 of Hazardous Products Regulations (SOR/2015-17 amended by SOR/2022-272)

Eye Dam. 1: Serious eye damage, Category 1, H318 Flam. Liq. 4: Flammable liquids, Category 4, H227 Skin Corr. 1: Skin corrosion, Category 1, H314

## 2.2 Label elements:

WHMIS 2015:



#### Hazard statements:

Flam. Liq. 4: H227 - Combustible liquid.

Skin Corr. 1: H314 - Causes severe skin burns and eye damage.

#### **Precautionary statements:**

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280: Wear protective gloves/protective clothing/eye 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. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501: Dispose of contents and / or their container according to the separated collection system used in your municipality.

## Substances that contribute to the classification

Poly(oxy-1,2-ethanediyl), alpha-undecyl- omega -hydroxy-; Disodium metasilicate; Amines, C12-18-alkyldimethyl

## 2.3 Health and physical hazards not otherwise classified (HHNOC - PHNOC):

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Non-applicable

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances:

Non-applicable

3.2 Mixtures:





## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

**Chemical description:** Aqueous solution based on ammonium quaternary compounds, surfactants, colourants and perfume.

## Components:

In accordance with Schedule I of the Hazardous Products Regulations (SOR/2015-17), the product contains:

Identification	Chemical name/Classification	Concentration	
7320-34-5	Tetrapotassium pyrophosphate	5 - <10 %	
7520 54 5	Eye Irrit. 2: H319 - Warning	5 120 //	
	Poly(oxy-1,2-ethanediyl), alpha-undecyl- omega -hydroxy-	5 - <10 %	
CAS: 34398-01-1	Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger	5-<10 %	
600 4 00 0	Disodium metasilicate	1	
6834-92-0 Skin Corr. 1B: H314; STOT SE 3: H335 - Danger	1 - <5 %		
	7320-34-5 34398-01-1	Tetrapotassium pyrophosphate       Fye Irrit. 2: H319 - Warning       34398-01-1       Poly(oxy-1,2-ethanediyl), alpha-undecyl- omega -hydroxy-       Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger       6834.92-0	

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

## SECTION 4: FIRST-AID MEASURES

#### 4.1 Description of necessary measures:

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

#### By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms 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/effects, acute and delayed:

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

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

## SECTION 5: FIRE-FIGHTING MEASURES

## 5.1 Suitable (and unsuitable) extinguishing media:

#### Suitable extinguishing media:

Combustible liquid. If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>).

#### Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

### 5.2 Specific hazards arising from the chemical:

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:

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## SECTION 5: FIRE-FIGHTING MEASURES (continued)

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:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

#### For emergency responders:

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

#### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

### 6.3 Methods and materials for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### 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

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

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
- It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

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A.- Technical measures for storage

Minimum Temp.:	5 °C
Maximum Temp.:	30 °C
Maximum time:	6 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 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

There are no applicable occupational exposure limits for the substances contained in the product

#### 8.2 Appropriate engineering controls:

A.- Individual protection measures, such as 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

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.11 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	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer 's instructions. Use if there is a risk of splashing.

E.- Bodily protection

Pictogram	PPE Remarks		
Work clothing		Replace before any evidence of deterioration.	
Anti-slip work shoes		Replace before any evidence of deterioration.	

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
+	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	<b>●</b> + <b>→</b>	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

#### 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

#### Volatile organic compounds (VOC) according to Canadian Environmental Protection Act, 1999:

Volatile organic compounds:

0.18 % weight

Version: 1

V.O.C. density at 20 °C:

Non-applicable





SECT	TION 9: PHYSICAL AND CHEMICAL PROPERTIES			
9.1	Information on basic physical and chemical prop	perties:		
5.1	For complete information see the product datasheet.			
	Appearance:			
	Physical state at 20 °C:	Liquid		
	Appearance:	Transparent		
	Colour:	Red		
	Odour:	Floral		
	Odour threshold:	Non-applicable *		
	Volatility:			
	Boiling point or initial boiling point and boiling range:	104 °C		
	Vapour pressure at 20 °C:	2342 Pa		
	Vapour pressure at 50 °C:	12335.44 Pa (12.34 kPa)		
	Evaporation rate at 20 °C:	Non-applicable *		
	Product description:			
	Density at 20 °C:	Non-applicable *		
	Relative density at 20 °C:	1.062 - 1.072		
	Dynamic viscosity at 20 °C:	Non-applicable *		
	Kinematic viscosity at 20 °C:	Non-applicable *		
	Kinematic viscosity at 40 °C:	Non-applicable *		
	Concentration:	Non-applicable *		
	pH:	>12.6		
	Relative vapour density at 20 °C:	Non-applicable *		
	Partition coefficient — n-octanol/water (logarithmic value) 20 °C:	Non-applicable *		
	Solubility in water at 20 °C:	Non-applicable *		
	Solubility properties:	Non-applicable *		
	Decomposition temperature:	Non-applicable *		
	Melting point/freezing point:	Non-applicable *		
	Flammability:	72.00		
	Flash Point:	73 °C		
	Flammability (solid, gas):	Non-applicable *		
	Autoignition temperature:	235 °C		
	Lower flammability limit:	Non-applicable * Non-applicable *		
	Upper flammability limit: Particle characteristics:	Non-applicable		
	Median equivalent diameter:	Non-applicable		
9.2	Other information:	Non-applicable		
5.2	Information with regard to physical hazard class	295'		
	Explosive properties:	Non-applicable *		
	Oxidising properties:	Non-applicable *		
	Corrosive to metals:	Non-applicable *		
	Heat of combustion:	Non-applicable *		
	Aerosols-total percentage (by mass) of flammable	Non-applicable *		
	components:			
	Other safety characteristics:			
	*Not relevant due to the nature of the product, not providing inform	nation property of its hazards.		

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Surface tension at 20 °C:

Non-applicable \*

Refraction index:

Non-applicable \*

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

## SECTION 10: STABILITY AND REACTIVITY

## 10.1 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** Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

#### **10.5** Incompatible materials:

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

#### 10.6 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: carbon dioxide ( $CO_2$ ), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

#### **11.1** Information on toxicological effects:

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: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
  - 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):

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## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- 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: ethanol (1)
- 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. However, it contains substances classified as hazardous for inhalation. 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:

Non-applicable

#### Specific toxicology information on the substances:

Identification		Acute toxicity	
Tetrapotassium pyrophosphate	LD50 oral	Non-applicable	
CAS: 7320-34-5	LD50 dermal	4640 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Poly(oxy-1,2-ethanediyl), alpha-undecyl- omega -hydroxy-	LD50 oral	500 mg/kg (ATEi)	
CAS: 34398-01-1	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

## SECTION 12: ECOLOGICAL INFORMATION

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

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.

#### 12.1 Ecotoxicity (aquatic and terrestrial, where available):

Version: 1

#### Acute toxicity:

Identification		Concentration	Species	Genus
Disodium metasilicate	LC50	210 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 6834-92-0	EC50	216 mg/L (96 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		

### 12.2 Persistence and degradability:

Not available

## 12.3 Bioaccumulative potential:

- Not available
- 12.4 Mobility in soil:
  - Not available





## SECTION 12: ECOLOGICAL INFORMATION (continued)

### 12.5 Results of PBT and vPvB assessment:

Non-applicable

#### **12.6** Other adverse effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Disposal methods:

### Waste management (disposal and evaluation):

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:

Canadian Environmental Protection Act, 1999

## SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport.

## SECTION 15: REGULATORY INFORMATION

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

- Domestic Substances List (DSL): *Tetrapotassium pyrophosphate (7320-34-5)*; *Poly(oxy-1,2-ethanediyl), alpha-undecyl- omega* -hydroxy- (34398-01-1); Disodium metasilicate (6834-92-0)

- Non-Domestic Substances List (NDSL): Non-applicable

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.

### Other legislation:

Canadian Environmental Protection Act, 1999

## SECTION 16: OTHER INFORMATION

#### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Part 4 and Schedule I of the Hazardous Products Regulations (SOR/2015-17), amended by SOR/2020-38 and SOR/2022-272.

### Texts of the legislative phrases mentioned in section 2:

H318: Causes serious eye damage.

H314: Causes severe skin burns and eye damage.

H227: Combustible liquid.

#### 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

## WHMIS 2015:

Acute Tox. 4: H302 - Harmful if swallowed.

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.

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STOT SE 3: H335 - May cause respiratory irritation.

#### Advice related to training:





## SECTION 16: OTHER INFORMATION (continued)

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:** http://whmis.org/ **Abbreviations and acronyms:** 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 Date of compilation: 2023-10-10

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

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