

# Safety Data Sheet

# **SUMA J-512**

**Revision:** 2023-01-31 **Version:** 01.0

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

### 1.1 Product identifier

Trade Name: SUMA J-512

#### 1.2 Recommended use and restrictions on use

See product label. For professional use only.

#### 1.3 Details of the supplier of the safety data sheet

Diversey Philippines Inc

#### **Contact details**

6756 Ayala Avenue 8 Floor Bankmer Building Makati City 1226 Philippines Tel. +63 2 8271 2400

#### 1.4 Emergency telephone number

In case of medical emergency, please seek professional medical advice.

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Skin Corr. 1B (H314) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)

#### 2.2 Label elements



Signal word: Danger.

# Hazard statements:

H314 - Causes severe skin burns and eye damage. H412 - Harmful to aquatic life with long lasting effects.

#### Precautionary statements:

P280 - Wear protective gloves, protective clothing and eye or face protection.

P303 + P361 + P353 - IF ON SKIN (or hair): 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.

P310 - Immediately call a POISON CENTER or doctor/physician.

#### 2.3 Other hazards

No other hazards known. Exposure and appropriate engineering controls are specified in subsection 8.2 exposure controls.

# 2.4 Classification diluted product:

Maximum recommended use concentration (% w/w): 0.63

Not classified as hazardous

# SECTION 3: Composition/information on ingredients

#### 3.1 Substances / Mixtures

Ingredient(s)	CAS#	Classification	Weight %
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	68956-79-6	Skin Corr. 1B (H314)	3-10
		Acute Tox. 4 (H302)	
		Acute Tox. 4 (H312)	
		Aquatic Acute 1 (H400)	
		Aquatic Chronic 2	
		(H411)	
		Eye Dam. 1 (H318)	
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	68391-01-5	Skin Corr. 1B (H314)	3-10
		Acute Tox. 4 (H302)	
		Aquatic Acute 1 (H400)	
		Aquatic Chronic 2	
		(H411)	
		Eye Dam. 1 (H318)	

#### [4] Polymer

Workplace exposure limit(s), if available, are listed in subsection 8.1. For the full text of the H phrases mentioned in this Section, see Section 16.

# SECTION 4: First aid measures

4.1 Description of first aid measures

General Information: If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is

irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose

resuscitation. Use Ambu bag or ventilator.

**Inhalation:** Get medical attention or advice if you feel unwell.

**Skin contact:** Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off

immediately all contaminated clothing and wash it before reuse. Immediately call a POISON

CENTER or doctor/physician.

**Eye contact:** Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or

doctor/physician

Ingestion: Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious

person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTER or

doctor/physician.

**Self-protection of first aider:** Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: No known effects or symptoms in normal use.

**Skin contact:** Causes severe burns.

**Eye contact:** Causes severe or permanent damage.

**Ingestion:** Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of

esophagus and stomach.

# 4.3 Indication of immediate medical attention and notes for physician.

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

# SECTION 5: Firefighting measures

# 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

### 5.2 Special hazards arising from the substance or mixture

No special hazards known.

#### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

# SECTION 6: Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing, gloves and eye/face protection.

# 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

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

Dike to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

#### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

# SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

#### Measures to prevent fire and explosions:

No special precautions required.

#### Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

#### Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Use only with adequate ventilation. See section 8.2, Exposure controls / Personal protection.

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

Store in accordance with local and national regulations. Store in a closed container. Keep only in original container. Keep from freezing. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

### 7.3 Specific end use(s)

No specific advice for end use available.

# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters Workplace exposure limits

Air limit values, if available:

Biological limit values, if available:

#### 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the <u>undiluted</u> product:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

Appropriate engineering controls: If the product is diluted by using specific dosing systems with no risk of splashes or direct skin

contact, the personal protection equipment as described in this section is not required.

Avoid direct contact and/or splashes where possible. Train personnel. Appropriate organisational controls:

Personal protective equipment

Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is Eye / face protection: strongly recommended when handling open containers or if splashes may occur.

Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and Hand protection:

breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such

as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material

thickness: ≥ 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may **Body protection:** 

occur (EN 14605).

Respiratory protection: No special requirements under normal use conditions.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the \_diluted\_product:

Maximum recommended use concentration (% w/w): 0.63

Method / remark

Not relevant to classification of this product

Not relevant to classification of this product

Not relevant to classification of this product

ISO 4316

ISO 4316

closed cup

OECD 109 (EU A.3)

Refer Test Method Notes

Appropriate engineering controls: No special requirements under normal use conditions. Appropriate organisational controls: No special requirements under normal use conditions.

Personal protective equipment

Eye / face protection: No special requirements under normal use conditions. Hand protection: No special requirements under normal use conditions. Body protection: No special requirements under normal use conditions Respiratory protection: No special requirements under normal use conditions.

**Environmental exposure controls:** No special requirements under normal use conditions.

# SECTION 9: Physical and chemical properties

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

Physical State: Liquid Color: Clear , Red Odor: Product specific

Odor threshold: Not applicable **pH**: ≈ 7 (neat) **Dilution pH:** ≈ 7 (0.63 %)

Melting point/freezing point (°C): Not determined

Initial boiling point and boiling range (°C): Not determined

Flammability (liquid): Not flammable. Flash point (°C): > 93 °C

Sustained combustion: Not applicable (UN Manual of Tests and Criteria, section 32, L.2)

**Evaporation Rate:** Not determined

Flammability (solid, gas): Not applicable to liquids Lower and upper explosion limit/flammability limit (%): Not determined

Vapor pressure: Not determined Relative vapor density Not determined Relative density: ≈ 1.00 (20 °C)

Solubility in / Miscibility with water: Completely miscible Fully miscible

Partition coefficient: n-octanol/water No information available.

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Autoignition temperature: Not determined Decomposition temperature: Not applicable Viscosity: ≈ 10 mPa.s (20 °C)

Explosive properties: Not explosive. Oxidising properties: Not oxidising.

9.2 Other information

Surface tension (N/m): Not determined Corrosion to metals: Not corrosive to metals

# SECTION 10: Stability and reactivity

# 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

### 10.2 Chemical stability

Stable under normal storage and use conditions.

#### 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

# 10.4 Conditions to avoid

None known under normal storage and use conditions.

# 10.5 Incompatible materials

None known under normal use conditions.

## 10.6 Hazardous decomposition products

None known under normal storage and use conditions.

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# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Mixture data:.

# Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000 ATE - Dermal (mg/kg): >2000

Substance data, where relevant and available, are listed below:.

# Acute toxicity

	Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
Г	n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		304.5			
	n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	LD 50	304.5	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	LD 50	930	Rat	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	LC 50	0.054		Method not given	

# Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium	No data available			
chloride				

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	No data available			

Sensitisation

Observation by skin contact

Sensitisation by skin contact				
Ingredient(s)	Result	Species	Method	Exposure time (h)
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium	No data available			
chloride				

Sensitisation by inhalation

ochorisation by initiation				
Ingredient(s)	Result	Species	Method	Exposure time
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available			

n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium	No data available		
chloride			

# CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available		No data available	
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	No evidence for genotoxicity, weight of evidence	Weight of evidence	No evidence for mutagenicity	Weight of evidence

Carcinogenicity

Carcinogenicity	
Ingredient(s)	Effect
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium	No evidence for carcinogenicity, weight-of-evidence
chloride	

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value	Species	Method	Exposure	Remarks and other effects
			(mg/kg bw/d)			time	reported
n-Alkyl (68% C12, 32%			No data				
C14) dimethyl			available				
ethylbenzyl ammonium							
chloride							
n-Alkyl (60% C14, 30%			No data				
C16, 5% C12, 5% C18)			available				
dimethyl benzyl							
ammonium chloride							

Repeated dose toxicity
Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl		No data				
ammonium chloride		available				
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl		No data				
benzyl ammonium chloride		available				

Sub-chronic dermal toxicity

2	bub-chronic dermai toxicity						
	Ingredient(s)	Endpoint	Value	Species	Method		Specific effects and organs
			(mg/kg bw/d)			time (days)	affected
ſ	n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl		No data				
	ammonium chloride		available				
r	n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl		No data				
	benzyl ammonium chloride		available				

Sub-chronic inhalation toxicity

Sub-chronic innaiation toxicity						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl		No data				
ammonium chloride		available				
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl		No data				
henzyl ammonium chloride		available	1	<u>'</u>	1	1

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
n-Alkyl (68% C12, 32%			No data					
C14) dimethyl			available					
ethylbenzyl ammonium								
chloride								
n-Alkyl (60% C14, 30%			No data					
C16, 5% C12, 5% C18)			available					
dimethyl benzyl								
ammonium chloride								

STOT-single exposure

- 4	or or unigro expectate	
	Ingredient(s)	Affected organ(s)
	n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available
	n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium	Not applicable
	chloride	

STOT-repeated exposure

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i

n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	Not applicable

#### **Aspiration hazard**

Substances with an aspiration hazard (H304), if any, are listed in section 3.

### Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

# Aquatic short-term toxicity Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride		No data available			

Aquatic short-term toxicity - crustacea

Aquatic short term toxic	nty crustacca					
	Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
n-Alkyl (68% C12,	32% C14) dimethyl ethylbenzyl ammonium chloride		No data			
			available			
n-Alkyl (60% C14, 30	% C16, 5% C12, 5% C18) dimethyl benzyl ammonium		No data			
	chloride		available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data			
		available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium		No data			
chloride		available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available			
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride		No data available			

# Aquatic long-term toxicity Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl		No data				
ammonium chloride		available				
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl		No data				
benzyl ammonium chloride		available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		No data available				

n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl	No data		
benzyl ammonium chloride	available		

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

**Terrestrial toxicity**Terrestrial toxicity - earthworms, if available:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

# 12.2 Persistence and degradability

# Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

**Biodegradation**Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride					Not readily biodegradable
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride				Method not given	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

# 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log l				
Ingredient(s)	Value	Method	Evaluation	Remark
n-Alkyl (68% C12, 32% C14) dimethyl	No data available			
ethylbenzyl ammonium chloride				
n-Alkyl (60% C14, 30% C16, 5% C12,	3.91	Method not given		
5% C18) dimethyl benzyl ammonium		_		
chloride				

Bioconcentration factor (BCF)

DIC	oconcentration factor (	DCF)				
	Ingredient(s)	Value	Species	Method	Evaluation	Remark
n-	-Alkyl (68% C12, 32%	No data available				
	C14) dimethyl					
et	thylbenzyl ammonium					
	chloride					
n-	-Alkyl (60% C14, 30%	182.8		Method not given		
C.	16, 5% C12, 5% C18)					
	dimethyl benzyl					
	ammonium chloride					

**12.4 Mobility in soil**Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	No data available				
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	No data available				

### 12.5 Other adverse effects

No other adverse effects known.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**Waste from residues / unused products** The concentrated contents or contaminated packaging should be disposed of by a certified handler **(undiluted product):** or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging

material is suitable for energy recovery or recycling in line with local legislation.

**Empty packaging** 

**Recommendation:** Dispose of observing national or local regulations.

Suitable cleaning agents: Water, if necessary with cleaning agent.

# SECTION 14: Transport information



Land transport, Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number: 1760

14.2 UN proper shipping name:

Corrosive liquid, n.o.s. (alkyldimethylbenzylammoniumchloride)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: |||
14.5 Environmental hazards:
Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers.

Other relevant information:

IMO/IMDG

EmS: F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of national road transport regulations and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

# SECTION 15: Regulatory information

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

## **National regulations**

• DOLE Department Order No. 136-14 Guidelines for the Implementation of Globally Harmonized System (GHS) in Chemical Safety Program in the Workplace

# SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

**SDS #**: MS4000024 **Version**: 01.0 **Revision**: 2023-01-31

### Full text of the H phrases mentioned in section 3:

- H225 Highly flammable liquid and vapor.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- H318 Causes serious eye damage.

- Abbreviations and acronyms:
   DNEL Derived No Effect Level
   PNEC Predicted No Effect Concentration

- PNEC Predicted No Effect Concentration
  ATE Acute Toxicity Estimate
  LD50 Lethal Dose, 50% / Median Lethal dose
  LC50 Lethal Concentration, 50% / Median Lethal Concentration
  EC50 effective concentration, 50%
  NOEL No observed effect level
  NOAEL No observed adverse effect level
  STOT-RE Specific target organ toxicity (repeated exposure)
  STOT-SE Specific target organ toxicity (single exposure)
  OECD Organization for Economic Cooperation and Development

**End of Safety Data Sheet**