Safety Data Sheet

Suma Total

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 Total

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 Irrit. 2 (H315)
Eye Irrit. 2 (H319)

2.2 Label elements

Signal word: Warning.

Hazard statements:
H315 + H319 - Causes skin and serious eye irritation.

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): 4.1

Not classified as hazardous

SECTION 3: Composition/information on ingredients

3.1 Substances / Mixtures

Ingredient(s)	CAS #	Classification	Weight %
Sodium dodecylbenzene sulfonate	25155-30-0	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3	10-20

		(H412)	
2-butoxyethanol	111-76-2	Acute Tox. 3 (H331) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	3-10
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	68891-38-3	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	1-3
Isopropyl alcohol	67-63-0	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)	1-3

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

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

Skin contact: Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

Eye contact: Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.

Ingestion: Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.

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 irritation.

Eye contact: Causes severe irritation.

Ingestion: No known effects or symptoms in normal use.

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
Repeated or prolonged contact:. Wear suitable gloves.

6.2 Environmental precautions
Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water.

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 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.
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:

Ingredient(s)	Long term value(s)	Ceiling value(s)
2-butoxyethanol	50 ppm 240 mg/m³	
Isopropyl alcohol	400 ppm 980 mg/m³	

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

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment
Eye / face protection: No special requirements under normal use conditions.
Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary. Repeated or prolonged contact: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and 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.
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.

Recommended safety measures for handling the diluted product:

Maximum recommended use concentration (% w/w): 4.1

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

	Method / remark
Physical State: Liquid	
Color: Clear , from Blue to Green	
Odor: Characteristic	
Odor threshold: Not applicable	
pH: ≈ 9 (neat)	ISO 4316
Dilution pH: ≈ 8 (4.1 %)	ISO 4316
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	
Flammability (liquid): Not flammable.	
Flash point (°C): > 60 °C	closed cup
Sustained combustion: Not applicable	
(UN Manual of Tests and Criteria, section 32, L.2)	
Evaporation Rate: Not determined	Not relevant to classification of this product
Flammability (solid, gas): Not applicable to liquids	
Lower and upper explosion limit/flammability limit (%): Not determined	
Vapor pressure: Not determined	
Relative vapor density No data available	Not relevant to classification of this product
Relative density: ≈ 1.02 (20 °C)	OECD 109 (EU A.3)
Solubility in / Miscibility with water: 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: Not determined
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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:.

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000
ATE - Inhalatory, vapors (mg/l): >20

Eye irritation and corrosivity
Result: Eye irritant 2 **Method:** Weight of Evidence

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

Acute toxicity
Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
Sodium dodecylbenzene sulfonate	LD_{50}	650	Rat	Non guideline test Weight of evidence	
2-butoxyethanol	LD_{50}	1746	Rat	ATE - Acute Toxicity Estimate	
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	LD_{50}	4100			
Isopropyl alcohol	LD_{50}	5840	Rat	OECD 401 (EU B.1)	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
Sodium dodecylbenzene sulfonate	LD_{50}	> 2000	Rat		
2-butoxyethanol	LD_{50}	6411		Method not given	
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	LD_{50}	> 2000			
Isopropyl alcohol	LD_{50}	> 2000	Rabbit	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Sodium dodecylbenzene sulfonate		No data available			
2-butoxyethanol	LC_{50}	> 2 (mist) No mortality observed	Rat	Method not given	4
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	LC_{50}	5.71			4
Isopropyl alcohol	LC_{50}	> 25 (vapor)	Rat	OECD 403 (EU B.2)	6

Irritation and corrosivity
Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Sodium dodecylbenzene sulfonate	Irritant			
2-butoxyethanol	Irritant	Rabbit	OECD 404 (EU B.4)	24; 48; 72 hour(s)
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	Irritant	Rabbit	OECD 404 (EU B.4)	24 hour(s)
Isopropyl alcohol	Not irritant	Rabbit	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Sodium dodecylbenzene sulfonate	Corrosive			
2-butoxyethanol	Irritant	Rabbit	OECD 405 (EU B.5)	24; 48; 72 hour(s)
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	Severe damage	Rabbit	OECD 405 (EU B.5)	72 hour(s)
Isopropyl alcohol	Irritant	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Sodium dodecylbenzene sulfonate	No data available			
2-butoxyethanol	No data available			
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	No data available			
Isopropyl alcohol	No data available			

Sensitisation
Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
Sodium dodecylbenzene sulfonate	Not sensitising	Guinea pig		
2-butoxyethanol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	Not sensitising	Guinea pig		
Isopropyl alcohol	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	

			Buehler test	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
Sodium dodecylbenzene sulfonate	No data available			
2-butoxyethanol	No data available			
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	No data available			
Isopropyl alcohol	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
Sodium dodecylbenzene sulfonate	No data available		No data available	
2-butoxyethanol	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 476 (Chinese Hamster Ovary)	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	No data available		No data available	
Isopropyl alcohol	No evidence for mutagenicity, negative test results No evidence of genotoxicity, negative test results	OECD 471 (EU B.12/13)	No evidence of genotoxicity, negative test results	OECD 474 (EU B.12)

Carcinogenicity

Ingredient(s)	Effect
Sodium dodecylbenzene sulfonate	No data available
2-butoxyethanol	No evidence for carcinogenicity, negative test results
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	No data available
Isopropyl alcohol	No evidence for carcinogenicity, negative test results

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
Sodium dodecylbenzene sulfonate			No data available				
2-butoxyethanol			No data available				
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts			No data available				
Isopropyl alcohol			No data available				

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
Sodium dodecylbenzene sulfonate		No data available				
2-butoxyethanol		No data available				
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts		No data available				
Isopropyl alcohol		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
Sodium dodecylbenzene sulfonate		No data available				
2-butoxyethanol		No data available				
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts		No data available				
Isopropyl alcohol		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected

Sodium dodecylbenzene sulfonate		No data available				
2-butoxyethanol		No data available				
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts		No data available				
Isopropyl alcohol		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
Sodium dodecylbenzene sulfonate			No data available					
2-butoxyethanol			No data available					
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts			No data available					
Isopropyl alcohol			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
Sodium dodecylbenzene sulfonate	No data available
2-butoxyethanol	No data available
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	No data available
Isopropyl alcohol	Central nervous system

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
Sodium dodecylbenzene sulfonate	No data available
2-butoxyethanol	No data available
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	No data available
Isopropyl alcohol	No data available

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)
Sodium dodecylbenzene sulfonate	LC_{50}	No data available			
2-butoxyethanol	LC_{50}	> 100	*Oncorhynchus mykiss*	OECD 203, static	96
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	LC_{50}	7.1	*Brachydanio rerio*	OECD 203 (EU C.1)	96
Isopropyl alcohol	LC_{50}	> 100	*Pimephales promelas*	Method not given	48

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Sodium dodecylbenzene sulfonate		No data available			
2-butoxyethanol	EC_{50}	> 100	*Daphnia magna Straus*	OECD 202, static	48
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	EC_{50}	7.4	*Daphnia magna Straus*	OECD 202 (EU C.2)	48

Isopropyl alcohol	EC_{50}	> 100	*Daphnia magna Straus*	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Sodium dodecylbenzene sulfonate		No data available		Weight of evidence	
2-butoxyethanol	EC_{50}	> 100	*Pseudokirchneriella subcapitata*	OECD 201, static	72
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	EC_{50}	27		OECD 201 (EU C.3)	72
Isopropyl alcohol	EC_{50}	> 100	*Scenedesmus quadricauda*	Method not given	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
Sodium dodecylbenzene sulfonate		No data available			
2-butoxyethanol		No data available			
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts		No data available			
Isopropyl alcohol		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
Sodium dodecylbenzene sulfonate		No data available			
2-butoxyethanol	EC_{0}	700	*Pseudomonas*	Method not given	16 hour(s)
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts		No data available			
Isopropyl alcohol	EC_{50}	> 1000	*Activated sludge*	Method not given	

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
Sodium dodecylbenzene sulfonate		No data available				
2-butoxyethanol	NOEC	> 100	*Danio rerio*	OECD 204	21 day(s)	
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	NOEC	1	*Pimephales promelas*	OECD 203	45 day(s)	
Isopropyl alcohol		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
Sodium dodecylbenzene sulfonate		No data available				
2-butoxyethanol	NOEC	100	*Daphnia magna*	OECD 211	21 day(s)	
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	NOEC	0.27	*Daphnia magna*	OECD 211	21 day(s)	
Isopropyl alcohol		No data available				

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

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
Sodium dodecylbenzene sulfonate		No data available				
Isopropyl alcohol		No data available				

Terrestrial toxicity

Terrestrial toxicity - earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed

Sodium dodecylbenzene sulfonate		No data available				
Isopropyl alcohol		No data available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Sodium dodecylbenzene sulfonate		No data available				
Isopropyl alcohol		No data available				

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
Sodium dodecylbenzene sulfonate		No data available				
Isopropyl alcohol		No data available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Sodium dodecylbenzene sulfonate		No data available				
Isopropyl alcohol		No data available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Sodium dodecylbenzene sulfonate		No data available				
Isopropyl alcohol		No data available				

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
Isopropyl alcohol	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
Isopropyl alcohol	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
Isopropyl alcohol		No data available			

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT_{50}	Method	Evaluation
Sodium dodecylbenzene sulfonate				OECD 301E	Readily biodegradable
2-butoxyethanol		CO_2 production	90.4 % in 28 day(s)	OECD 301B	Readily biodegradable
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	Activated sludge, aerobe	Oxygen depletion	77-79 % in 28 day(s)	OECD 301D	Readily biodegradable
Isopropyl alcohol			95 % in 21 day(s)	OECD 301E	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT_{50}	Method	Evaluation
Isopropyl alcohol					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical	DT_{50}	Method	Evaluation

		method			
Isopropyl alcohol					No data available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
Sodium dodecylbenzene sulfonate	No data available			
2-butoxyethanol	0.81	OECD 107	Low potential for bioaccumulation	
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	No data available			
Isopropyl alcohol	0.05	OECD 107	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
Sodium dodecylbenzene sulfonate	No data available				
2-butoxyethanol	No data available				
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	No data available				
Isopropyl alcohol	No data available				

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
Sodium dodecylbenzene sulfonate	No data available				
2-butoxyethanol	No data available				Potential for mobility in soil, soluble in water
Alcohols, C12-14, ethoxylated (<2.5 EO), sulfates, sodium salts	No data available				
Isopropyl alcohol	No data available				Potential for mobility in soil, soluble in water

12.5 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products (undiluted product): The concentrated contents or contaminated packaging should be disposed of by a certified handler 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: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

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 #: MS4001713 **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.
• H315 - Causes skin irritation.
• H318 - Causes serious eye damage.
• H319 - Causes serious eye irritation.
• H331 - Toxic if inhaled.
• H332 - Harmful if inhaled.
• H336 - May cause drowsiness or dizziness.
• H412 - Harmful to aquatic life with long lasting effects.

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

End of Safety Data Sheet