

SHINE UP

Revision: 2025-03-21

Version: 02.0

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

1.1 Product identifier

Trade name: SHINE UP

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

SOLENIS VIETNAM COMPANY LIMITED

Contact details

Level 4&5, M-Building, Lot C7B-02A, Block A, No.9 Street 8, Zone Saigon South New Urban Area, Tan Phu Ward, District 7, Ho Chi Minh City, VIETNAM
Tel. 0314996293

1.4 Emergency telephone number

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

SECTION 2: Composition/information on ingredients

2.1 Substances / Mixtures

Ingredient(s)	CAS number	EC number	Classification	Weight percent
ethanol	64-17-5	200-578-6	Flammable liquids, Category 2 (H225) Eye irritation, Category 2A (H319)	3-10
alkyl alcohol ethoxylate	69011-36-5	[4]	Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 2 (H401) Chronic aquatic toxicity, Category 3 (H412)	0.1-1
octamethylcyclotetrasiloxane	556-67-2	209-136-7	Reproductive toxicity, Category 2 (H361) Chronic aquatic toxicity, Category 1 M=10 (H410)	0.01-0.1
bronopol (INN)	52-51-7	200-143-0	Acute toxicity - Oral, Category 4 (H302) Acute toxicity - Dermal, Category 4 (H312) Specific target organ toxicity - Single exposure, Category 3 (H335) Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=10 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)	0.01-0.1
3(2H)-Isothiazolone, 2-octyl-	26530-20-1	247-761-7	Acute toxicity - Inhalation, Category 2 (H330) Acute toxicity - Oral, Category 3 (H301) Acute toxicity - Dermal, Category 3 (H311) Skin corrosion, Category 1B (H314) Serious eye damage, Category 1 (H318) Skin sensitisation, Sub-category 1A (H317) Acute aquatic toxicity, Category 1 M=100 (H400) Chronic aquatic toxicity, Category 1 M=100 (H410)	< 0.01

Workplace exposure limit(s), if available, are listed in subsection 8.1.

ATE, if available, are listed in section 11.

SECTION 3: Hazards identification

3.1 Classification of the substance or mixture

Flammable liquids, Category 4
Acute aquatic toxicity, Category 3
Chronic aquatic toxicity, Category 3

3.2 Label elements

Signal word: Warning.

Hazard statements:

H227 - Combustible liquid.
H412 - Harmful to aquatic life with long lasting effects.

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3.3 Other hazards

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

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:	Rinse cautiously with water for several minutes. 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:	No known effects or symptoms in normal use.
Eye contact:	No known effects or symptoms in normal use.
Ingestion:	No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

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**

Turn off all sources of ignition. Ventilate the area.

6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. 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

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders). 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.

Advice 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 advised by Diversey. Wash hands before breaks and at the end of workday. Do not breathe spray. Use only with adequate ventilation. See chapter 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 packaging. Keep away from heat and direct sunlight.

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)	Short term value(s)
ethanol	1000 mg/m ³	3000 mg/m ³

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: Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available.

Personal protective equipment

Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 16321).

Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.

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:

Appropriate engineering controls: Use only in well ventilated areas.

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.

Respiratory protection: Trigger spray bottle application: No special requirements under normal use conditions. Apply technical measures to comply with the occupational exposure limits, if available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

	Method / remark
Physical state: Liquid	
Colour: Opaque , Opaque	
Odour: Characteristic	
Odour threshold: Not applicable	
pH: ≈ 8 (neat)	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): Combustible.	
Flash point (°C): ≈ 69 °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	
Vapour pressure: Not determined	
Relative density: ≈ 1.01 (20 °C)	OECD 109 (EU A.3)
Relative vapour density: No data available.	Not relevant to classification of this product
Particle characteristics: No data available.	Not applicable to liquids.

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.
Kinematic viscosity: Not determined DM-006 Viscosity - Standard
Explosive properties: Not explosive. Vapours may form explosive mixtures with air.
Oxidising properties: Not oxidising.

9.2 Other information

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

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): >5000

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)
ethanol	LD ₅₀	5000	Rat	OECD 401 (EU B.1)	
alkyl alcohol ethoxylate	LD ₅₀	> 5000	Rat	OECD 401 (EU B.1)	
octamethylcyclotetrasiloxane	LD ₅₀	1540	Rat		
bronopol (INN)	LD ₅₀	305	Rat	OECD 401 (EU B.1)	
3(2H)-Isothiazolone, 2-octyl-		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
ethanol	LD ₅₀	> 10000	Rabbit	OECD 402 (EU B.3)	
alkyl alcohol ethoxylate	LD ₅₀	> 2000	Rat	OECD 402 (EU B.3)	
octamethylcyclotetrasiloxane	LD ₅₀	No data available			
bronopol (INN)	LD ₅₀	> 2000	Rat	OECD 402 (EU B.3)	
3(2H)-Isothiazolone, 2-octyl-		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	LC ₅₀	> 1800	Rat	Non guideline test	4
alkyl alcohol ethoxylate		No data available			
octamethylcyclotetrasiloxane	LC ₅₀	36000	Rat	Method not given	4
bronopol (INN)	LC ₅₀	≥ 0.588 (dust)	Rat	Method not given	4
3(2H)-Isothiazolone, 2-octyl-		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	Not irritant	Rabbit	OECD 404 (EU B.4)	
alkyl alcohol ethoxylate	Mild irritant	Rabbit	OECD 404 (EU B.4)	
octamethylcyclotetrasiloxane	No data available			
bronopol (INN)	Irritant	Rabbit	OECD 404 (EU B.4)	
3(2H)-Isothiazolone, 2-octyl-	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	Irritant	Rabbit	OECD 405 (EU B.5)	
alkyl alcohol ethoxylate	Severe damage	Rabbit	OECD 405 (EU B.5)	
octamethylcyclotetrasiloxane	No data available			
bronopol (INN)	Severe damage	Rabbit	Method not given	
3(2H)-Isothiazolone, 2-octyl-	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
alkyl alcohol ethoxylate	No data available			
octamethylcyclotetrasiloxane	No data available			
bronopol (INN)	No data available			
3(2H)-Isothiazolone, 2-octyl-	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
ethanol	Not sensitising			
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
octamethylcyclotetrasiloxane	No data available			
bronopol (INN)	Not sensitising	Guinea pig	OECD 406 (EU B.6)	
3(2H)-Isothiazolone, 2-octyl-	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
alkyl alcohol ethoxylate	No data available			
octamethylcyclotetrasiloxane	No data available			
bronopol (INN)	No data available			
3(2H)-Isothiazolone, 2-octyl-	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)
ethanol	No data available		No data available	
alkyl alcohol ethoxylate	No data available		No data available	
octamethylcyclotetrasiloxane	No data available		No data available	
bronopol (INN)	No evidence for mutagenicity, negative test results	Method not given	No data available	
3(2H)-Isothiazolone, 2-octyl-	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
ethanol	No data available
alkyl alcohol ethoxylate	No data available
octamethylcyclotetrasiloxane	No data available
bronopol (INN)	No data available
3(2H)-Isothiazolone, 2-octyl-	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
ethanol			No data available				
alkyl alcohol ethoxylate			No data available				
octamethylcyclotetrasiloxane			No data available				
bronopol (INN)			No data available				No adverse effects observed
3(2H)-Isothiazolone, 2-octyl-			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
ethanol		No data available				
alkyl alcohol ethoxylate		No data available				
octamethylcyclotetrasiloxane		No data available				
bronopol (INN)		No data available				
3(2H)-Isothiazolone, 2-octyl-		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
ethanol		No data available				
alkyl alcohol ethoxylate		No data available				
octamethylcyclotetrasiloxane		No data available				
bronopol (INN)		No data available				
3(2H)-Isothiazolone, 2-octyl-		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
ethanol		No data available				
alkyl alcohol ethoxylate		No data available				
octamethylcyclotetrasiloxane		No data available				
bronopol (INN)		No data available				
3(2H)-Isothiazolone, 2-octyl-		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
ethanol			No data available					
alkyl alcohol ethoxylate			No data available					
octamethylcyclotetrasiloxane			No data available					
bronopol (INN)			No data					

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			available				
3(2H)-Isothiazolone, 2-octyl-			No data available				

STOT-single exposure

Ingredient(s)	Affected organ(s)
ethanol	No data available
alkyl alcohol ethoxylate	No data available
octamethylcyclotetrasiloxane	No data available
bronopol (INN)	No data available
3(2H)-Isothiazolone, 2-octyl-	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
ethanol	No data available
alkyl alcohol ethoxylate	No data available
octamethylcyclotetrasiloxane	No data available
bronopol (INN)	Respiratory tract
3(2H)-Isothiazolone, 2-octyl-	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)
ethanol	LC ₅₀	8150	<i>Alburnus alburnus</i>	Method not given	96
alkyl alcohol ethoxylate	LC ₅₀	> 1 - 10	<i>Cyprinus carpio</i>	OECD 203, flow-through	96
octamethylcyclotetrasiloxane	LC ₅₀	0.01	<i>Oncorhynchus mykiss</i>	Method not given	
bronopol (INN)	LC ₅₀	11	<i>Lepomis macrochirus</i>	OPP 72-1, static (EPA)	96
3(2H)-Isothiazolone, 2-octyl-	LC ₅₀	0.122			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	EC ₅₀	5012	<i>Daphnia magna Straus</i>	Method not given	48
alkyl alcohol ethoxylate	EC ₅₀	> 1 - 10	<i>Daphnia magna Straus</i>	OECD 202, static	48
octamethylcyclotetrasiloxane		No data available			
bronopol (INN)	EC ₅₀	1.08	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
3(2H)-Isothiazolone, 2-octyl-	LC ₅₀	0.181			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	EC ₅₀	675	<i>Scenedesmus quadricauda</i> Not specified	Method not given	72
alkyl alcohol ethoxylate	EC ₅₀	> 1 - 10	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
octamethylcyclotetrasiloxane	EC ₅₀	0.015		QSAR	
bronopol (INN)	EC ₅₀	0.25	<i>Pseudokirchneriella</i>	OECD 201 (EU C.3)	72

			<i>subcapitata</i>	
3(2H)-Isothiazolone, 2-octyl-	EC ₅₀	0.15		

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
ethanol		No data available			
alkyl alcohol ethoxylate		No data available			
octamethylcyclotetrasiloxane		No data available			
bronopol (INN)		No data available			
3(2H)-Isothiazolone, 2-octyl-		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
ethanol	EC ₀	6500	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
alkyl alcohol ethoxylate	EC ₅₀	140	<i>Activated sludge</i>	Method not given	
octamethylcyclotetrasiloxane		No data available			
bronopol (INN)	EC ₂₀	2	<i>Activated sludge</i>	OECD 209	150 minute(s)
3(2H)-Isothiazolone, 2-octyl-		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
ethanol		No data available				
alkyl alcohol ethoxylate	NOEC	1.73		QSAR		
octamethylcyclotetrasiloxane		No data available				
bronopol (INN)	EC ₅₀	> 10-100	<i>Oncorhynchus mykiss</i>	OECD 210	49 day(s)	
3(2H)-Isothiazolone, 2-octyl-		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
ethanol		No data available				
alkyl alcohol ethoxylate	NOEC	1.36	<i>Daphnia magna</i>	QSAR	21 day(s)	
octamethylcyclotetrasiloxane		No data available				
bronopol (INN)	EC ₅₀	0.06	<i>Daphnia magna</i>	OECD 211, flow-through	21 day(s)	
3(2H)-Isothiazolone, 2-octyl-		No data available				

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

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
bronopol (INN)	LD ₅₀	> 500	<i>Eisenia fetida</i>	OECD 207	14	

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:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
bronopol (INN)	No data available	OECD 111	Rapidly hydrolysible	

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
ethanol	Activated sludge, aerobe	Oxygen depletion	> 60% in 10 day(s)	OECD 301B	Readily biodegradable
alkyl alcohol ethoxylate	Activated sludge, aerobe	CO ₂ production	> 60% in 28 day(s)	OECD 301B	Readily biodegradable
octamethylcyclotetrasiloxane			3.7% in 29 day(s)	OECD 310	Not readily biodegradable.
bronopol (INN)	Activated sludge, aerobe		70-80%	OECD 301B	Readily biodegradable
3(2H)-Isothiazolone, 2-octyl-				Weight of evidence	Not 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 K_{ow})

Ingredient(s)	Value	Method	Evaluation	Remark
ethanol	-0.31	Weight of evidence	No bioaccumulation expected	
alkyl alcohol ethoxylate	No data available		No bioaccumulation expected	
octamethylcyclotetrasiloxane	No data available			
bronopol (INN)	0.18	Method not given	No bioaccumulation expected	
3(2H)-Isothiazolone, 2-octyl-	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
ethanol	0.5		Weight of evidence	No bioaccumulation expected	
alkyl alcohol ethoxylate	No data available			No bioaccumulation expected	
octamethylcyclotetrasiloxane	No data available				
bronopol (INN)	3.167		QSAR	No bioaccumulation expected	
3(2H)-Isothiazolone, 2-octyl-	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K _{oc}	Desorption coefficient Log K _{oc} (des)	Method	Soil/sediment type	Evaluation
ethanol	No data available				
alkyl alcohol ethoxylate	No data available				Potential for adsorption to soil
octamethylcyclotetrasiloxane	No data available				
bronopol (INN)	No data available				
3(2H)-Isothiazolone, 2-octyl-	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

The concentrated contents or contaminated packaging should be disposed of by a certified handler

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products: 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**

- Decree 108/2008/NP-CP Circular No.: 04/2012/TT-BCT Regulations on the Classification and Labeling of Chemicals

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 code: MS4800064

Version: 02.0

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Abbreviations and acronyms:

- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- 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 - Organisation 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)
- H225 - Highly flammable liquid and vapour.
- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H311 - Toxic in contact with skin.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H330 - Fatal if inhaled.
- H335 - May cause respiratory irritation.
- H361 - Suspected of damaging fertility or the unborn child.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

End of Safety Data Sheet