

Material Safety Data Sheet

According to EU regulation 1907/2006/EC amended by Regulation (EU) 2020/878

Date of issue: 17/10/2025

Issue: 10



02259, Bubble Pop Lion

1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1. Product identifier

Product type:	Mixture
Trade name:	SES Mega Bubble Solution
Product code:	02259, Bubble Pop Lion

1.2. Relevant identified uses of the mixtures and uses advised against

Use	Toy, Bubble Solution
Uses advised against	not to be use by children under 3 years of age

1.3. Details of the supplier of the safety data sheet

Company	SES-Nederland B.V.
	Marssteden 46
	7547 TC Enschede
	The Netherlands

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1.4. Emergency telephone number	+31 (0)6 290 53 671
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2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

2.2. Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

2.3. Other hazards

This mixture does not contain any substances classified as PBT or vPvB $\geq 0.1\%$ according to Regulation (EC) No 1907/2006, Annex XIII, nor substances identified as endocrine disruptors according to Regulation (EU) 2017/2100 or (EU) 2018/605.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

<u>CHEMICAL</u>	<u>CAS#</u>	<u>EINECS#</u>	<u>CONCENTRATION</u>	<u>REGULATED</u>
Sodium lauryl sulfate (SLS)	85586-07-8	287-809-4	0,1-0,5%	H315, H318
Cocamidopropyl betaine (CAPB)	61789-40-0	263-058-8	0-0,5%	H315,
2-Phenoxyethanol*	122-99-6	204-589-7	0-0,2%	H302, H318;H335
Ethanol	64-17-5	200-578-6	1-1,5%	H225, H319
3-Phenyl-1-propanol	122-97-4	204-587-6	0-0,3%	H315, H319
Octane-1,2-diol	1117-86-8	214-254-7	0-0,2%	H318
Benzoic acid	65-85-0	200-618-2	0-0,03%	H319
Dehydroacetic acid	520-45-6	208-293-9	0.001%	H302
Methanol	67-56-1	200-659-6	0,0006%	H225,H301,H311, H331

All classified substances present in this formulation are used at concentrations well below the applicable classification thresholds under Regulation (EC) No 1272/2008 (CLP) and, therefore, the final product is considered safe for its intended use

For Full text of the H-Statements mentioned in this section, see section 16

This mixture does not contain any hazardous substances above relevant thresholds per Regulation (EC) No. 1272/2008

4. FIRST AID MEASURES

In eyes	: In case of irritation, flush eyes with water for 15 minutes. Seek medical advise if irritation persists.
On skin	: In case of irritation, rinse with plenty of water. Seek medical advise if irritation persists.
Inhalation	: In case of symptoms, move person into fresh air. If symptoms persist, seek medical advise.
Ingestion	: Rinse mouth with water. Do not induce vomiting. If symptoms persist, seek medical advise.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Flash Point : Does not burn

Exposure hazards : -

6. ACCIDENTAL RELEASE MEASURES

Cleaning up : Dispose of in compliance with federal, state and local environmental control regulations.

Environmental Precautions : Do not let product enter drains

Personal precautions : Wear suitable protective gloves. Floors might get slippery.

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7. HANDLING AND STORAGE

Handling : Store dry and cool

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hygiene measures : -

Engineering

Measures : -

Occupational

Exposure

Limits OEL : No occupational exposure limits have been established - Netherlands

Personal

Precautions : -

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid
Colour : Green
Odour : specific
Density : 0.998 g/cm³
Boiling point : 100 C
Melting point : NA
Vapour pressure : ND

Flash point : Does not burn
Solubility in water : completely soluble
Explosion limits : -
pH : 8-8,5
Flammability : Not flammable
Ignition temperature: ND
Explosion limits : ND

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions.

Conditions to avoid : High temperatures

Materials to avoid : NA

Hazardous

decomposition

products : Non at normal use

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component	Result	Species	Dose
2-phenoxyethanol	LD50 Oral	Rat	1850mg/kg
	LC50 inhalation	Rat	8h, could not be determined, no mortality observed at max. achievable concentration
3-Phenyl-1-propanol	LD50 Dermal		>2000 mg/kg
	LD50 Oral	Rat	1690mg/kg (OECD 401)
Sodium lauryl sulfate (SLS)	LD50 Dermal	Rabbit	>2000 mg/kg (OECD 402)
	LD50 Oral	Rat	1200mg/kg (OECD 401)
Cocamidopropyl betaine	LD50 Dermal	Rabbit	>2000 mg/kg (OECD 402)
	LC50 Inhalation	Rat	>3900 mg/kg (OECD 403)
Ethanol	LD50 Oral	Rat	5000 mg/kg (OECD 401)
	LD50 Dermal	Rabbit	>2000 mg/kg (OECD 402)
Octane-1,2-diol	LD50 Oral	Rat	10470 mg/kg (OECD 401)
	LC50 Inhalation	Rat	142.7 mg/L (OECD 403)
3-Phenyl-1-propanol	LD50 Oral	Rat	>2000 mg/kg (OECD 401)
	LD50 Dermal	Rabbit	>2000 mg/kg (OECD 402)
Benzoic acid	LD50 Oral	Rat	>2000 mg/kg (OECD 401)
	LD50 Dermal	Rabbit	1703 mg/kg (OECD 401)
Dehydroacetic acid	LD50 Oral	Rat	>2000 mg/kg (OECD 402)
			1703 mg/kg (OECD 401)

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Methanol

LD50 Oral
LC50 Inhalation

Rat
Rat

1187 mg/kg (OECD 401)
64000 mg/kg (OECD 403)

Skin corrosion/-irritation

Component	Species	Result
2-phenoxyethanol	Rabbit	No Skin Irritation (OECD 404)
3-Phenyl-1-propanol	Rabbit	Mild Irritation (OECD 404)
Octane-1,2-diol	Rabbit	Mild Irritation (OECD 404)
Sodium lauryl sulfate	Rabbit	Causes skin irritation (OECD 404)
Cocamidopropyl betaine	Rabbit	Mild Irritation (OECD 404)
Methanol	Rabbit	Slight Irritation; toxic by skin absorption at high dose (OECD 404) not relevant at 0.0006%
Dehydroacetic acid	Rabbit	Mild transient irritation only; not relevant at 0.001 % (OECD 404)
Benzoic acid	Rabbit	No Skin Irritation (OECD 404)
Ethanol	Rabbit	No Skin Irritation (OECD 404)

Serious eye damage/eye irritation

Component	Species	Result
2-phenoxyethanol	Rabbit	Serious eye irritation (OECD 405)
Octane-1,2-diol	Rabbit	Serious eye irritation (OECD 405)
Sodium lauryl sulfate	Rabbit	Serious eye irritation (OECD 405)
Cocamidopropyl betaine	Rabbit	Mild eye irritation (OECD 405)
Methanol	Rabbit	Serious eye irritation (OECD 405) at high dose (OECD 405) not relevant at 0.0006%
Dehydroacetic acid	Rabbit	Mild transient irritation only; not relevant at 0.001 % (OECD 405)
Benzoic acid	Rabbit	Serious eye irritation (OECD 405)
Ethanol	Rabbit	Serious eye irritation (OECD 405): not classified at 1 – 1.5 % in mixture

Respiratory or skin sensitization

Component	Species	Result
2-phenoxyethanol	Guinea pig	Not sensitizing (OECD 406)
Octane-1,2-diol	Guinea pig	Not sensitizing (OECD 406)
Sodium lauryl sulfate	Guinea pig	Not sensitizing (OECD 406)
Cocamidopropyl betaine	Guinea pig	Not sensitizing (OECD 406)
Methanol	Human data	Not sensitizing (OECD 406)
Dehydroacetic acid	Guinea pig	Not sensitizing (OECD 406)
Benzoic acid	Guinea pig	Not sensitizing (OECD 406)
Ethanol	Human data	Not sensitizing (OECD 406)

Conclusion:

At concentrations present, this product is not expected to pose acute or chronic health risks.

Margins of safety (MoS) calculated from oral and dermal exposure exceed 100, confirming the **safety of the product for intended use in toys.**

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Component	Result	Species	Dose
2-phenoxyethanol	LC50 (fish)	Leuciscus idus	>100 mg/l – 96h
	EC50 (water flea)	Daphnia magna	>500 mg/l – 48h
	IC50 (algae)	Desmodesmus subspicatus	>500 mg/l – 72h
	Chronical toxicity (fish)	Pimephales promelas	NOEC: 23mg/l, 34d
	Chronical toxicity (water flea)	Daphnia magna	NOEC: 9,43 mg/l, 21d
Sodium lauryl sulfate	LC50 (fish)	Oncorhynchus mykiss	4.1 mg/l – 96h
	EC50 (water flea)	Daphnia magna	4.3 mg/l – 48h

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	IC50 (algae)	Desmodesmus subspicatus	29 mg/l – 72h
Cocamidopropyl betaine (CAPB)	LC50 (fish)	Danio rerio	1.0 mg/l – 96h
	EC50 (water flea)	Daphnia magna	27 mg/l – 48h
3-Phenyl-1-propanol	LC50 (fish)	Danio rerio	10 mg/l – 96h
Octane-1,2-diol	LC50 (fish)	Brachydanio rerio	100 mg/l – 96h
Ethanol	LC50 (fish)	Pimephales promelas	11000 mg/l – 96h
	EC50 (water flea)	Daphnia magna	12340 mg/l – 48h
Benzoic acid	LC50 (fish)	Oncorhynchus mykiss	10.7 mg/l – 96h
Dehydroacetic acid	LC50 (fish)	Lepomis macrochirus	180 mg/l – 96h
Methanol	LC50 (fish)	Lepomis macrochirus	15400 mg/l – 96h

Conclusion:

At the very low concentrations present, the mixture is **not classified as hazardous to the aquatic environment** under Regulation (EC) No 1272/2008.

12.2. Persistence and degradability

Component	Result
2-phenoxyethanol	Biodegradation: 90-100%, exposure-time: 15d (OECD 301A)
Sodium lauryl sulfate	> 95 % biodegradation in 28 days (OECD 301B)
Cocamidopropyl betaine:	> 90 % in 28 days (OECD 301D)
Other components (Ethanol, Benzoic acid, Methanol, Dehydroacetic acid, Octane-1,2-diol, 3-Phenyl-1-propanol) are readily biodegradable.	

12.3. Bio accumulative potential

All components have $\log K_{ow} < 3 \rightarrow$ low bioaccumulation potential.

Component	Result
2-phenoxyethanol	BCF: 0,35, No bioaccumulation is to be expected ($\log Pow$ 1,16)
Sodium lauryl sulfate	$\log K_{ow} = 1.16$ (BCF ≈ 0.35)
Benzoic acid:	$\log K_{ow} = 1.87$
Cocamidopropyl betaine:	$\log K_{ow} \approx 1.8$
Ethanol	$\log K_{ow} = -0.31$
3-Phenyl-1-propanol	$\log K_{ow} \approx 1.8$
Octane-1,2-diol	$\log K_{ow} \approx 2.5$
Methanol	$\log K_{ow} = -0.77$

12.4. Mobility in soil

Highly water-soluble; low potential for adsorption to soil or sediment.
No significant mobility concerns expected.

12.5. Results of PBT and vPvB assessment

This mixture contains **no components considered PBT or vPvB** at concentrations ≥ 0.1 %, in accordance with Regulation (EC) No 1907/2006 Annex XIII.

12.6 Endocrine disrupting properties

No ingredient identified as having endocrine-disrupting properties under (EU) 2017/2100 or (EU) 2018/605.

12.7 Other adverse effects

No known significant effects or critical hazards.
Surfactants are biodegradable and not expected to persist or bioaccumulate.
The mixture poses **no long-term risk to aquatic organisms** at intended use concentrations.

13. DISPOSAL CONSIDERATIONS

Product disposal: Dispose of in compliance with international, national and local environmental control regulations.

Waste code (EWC): 20 01 39 – Plastics or similar materials (suggested).

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Packaging: Dispose of as non-hazardous household waste if clean.

14. TRANSPORTATION INFORMATION

UN number :
UN classification/packing group:
IMDG (sea transport)
IMDG UN number : not regulated
IMDG classification/packing group:
IMDG marine pollutant :
Technical name : Creative toy
ADR/RID (land transport)
ADR/RID classification/packing group: not regulated
IATA/ICAO (air transport)
IATA/ICAO UN number : not regulated
Technical name : Creative toy
Not classified as dangerous goods under ADR, IMDG or IATA.

15. REGULATORY INFORMATION

EC REGULATIONS:

EC classification : NOT HAZARDOUS
EC symbol : Yes (toy)
Risk phrases : NA
Safety phrases : NA
TSCA(USA) : -

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

- Regulation (EC) No 1907/2006 (REACH)
- Regulation (EC) No 1272/2008 (CLP)
- Commission Regulation (EU) 2020/878
- Directive 2009/48/EC on the Safety of Toys
- Regulation (EU) 2023/988 General Product Safety Regulation (GPSR)
- Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POP)

None of the ingredients are included in the REACH Candidate List (SVHC), REACH Annex XIV (Authorisation List), REACH Annex XVII restrictions requiring declaration, POP Annex I, or Ozone Depleting Substances Annex I.

No substances classified as PBT, vPvB, PMT, vPvM or endocrine disruptors are present above applicable regulatory thresholds.

15.2. Chemical safety assessment

For this mixture a chemical safety assessment was carried out.

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16. OTHER INFORMATION

Full text of H-Statements referred to under section 3.

H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H225	Highly flammable liquid and vapour
H331	Toxic if inhaled

Further information

The information contained herein relates only to the specific material identified. SES-Nederland BV believes that such information is accurate and reliable as of the date of this material data sheet, but no representation, guarantee or warranty, express or implied, is made as to the accuracy, reliability or completeness of the information. SES-Nederland BV urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.