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

• 1.1 Product identifier

• Trade name:

SOAP FLAKE

• Registration number:

No available data.

• UFI number:

No available data.

• Other means of identification:

No available data.

• 1.2 Relevant identified uses of the substance or mixture and uses advised against on

• Application of the substance/ mixture:

Consumer uses.

• Uses advised against:

No available data.

• Reason why uses advised against:

No available data.

• 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier:

Playlearn Ltd.

49 Ramsgate Street

Email: qa@play-learn.co.uk

• Further information obtainable from:

Playlearn Ltd.

• 1.4 Emergency telephone number

No available data

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture

• 2.1.1 Classification according to regulation (EC) 1272/2008:

The product is not classified according to CLP Regulation.

Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Not applicable	Not applicable

• 2.2 Label elements

• Labeling according to Regulation (EC) No 1272/2008:

The product is not labelled according to CLP Regulation.

• Hazard pictograms:

Not applicable

• Signal word:

Not applicable

• Hazard-determining components of labelling:

Not applicable



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• **Hazard statements:**

Not applicable

• **Precautionary statement:**

Not applicable

• **Supplemental label elements:**

Not applicable

• **2.3 Other hazards**

None of the ingredients ($\geq 0.1\%$) meets the criteria for PBT/vPvB in accordance with Annex XIII.

None of the ingredients ($\geq 0.1\%$) is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

SECTION 3: Composition/information on ingredients

• **3.1 Substance**

Not applicable

• **3.2 Mixtures**

• **Description of the mixture:**

SOAP FLAKES.

Ingredients:

Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Sodium palmate	61790-79-2	-	263-162-3	69.2	None	-
Sodium palm kernelate	61789-89-7	-	263-097-0	17.3	None	-
Water	7732-18-5	-	231-791-2	12.4	None	-
Glycerin	56-81-5	-	200-289-5	0.5	None	-
Sodium chloride	7647-14-5	-	231-598-3	0.5	None	-
Edetate sodium	64-02-8	607-428-00-2	200-573-9	0.05	Acute Tox. 4, H302 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT RE 2, H373	ATE (oral)=1700 mg/kg ATE (inhal)= 1.5mg/l (dust) Eye Dam. 1, H318: C $\geq$ 10% Eye Irrit.2, H319: 5% $\leq$ C<10%
Tetrasodium etidronate	3794-83-0	-	223-267-7	0.05	Acute Tox. 4, H302 Eye Irrit. 2, H319	ATE (oral)=990 mg/kg

Additional information:

For full text of H-statements, see SECTION 16.

SECTION 4: First aid measures

• **4.1 Description of first aid measures**

General advice:

Get medical attention if you feel unwell.

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After inhalation:

Supply with fresh air.

Get medical attention if you feel unwell.

After skin contact:

No special measures required normally.

If there are signs of irritation or other symptoms seek medical attention.

After eye contact:

Rinse cautiously with water.

If eye irritation occurs: Get medical advice/attention.

After swallowing:

Rinse mouth.

Call a POISON CENTER/doctor if you feel unwell.

· 4.2 Most important symptoms and effects, both acute and delayed:

No known symptoms or effects, acute or delayed.

· 4.3 Indication of any immediate medical attention and special treatment needed:

No special immediate medical attention or special treatment needed.

SECTION 5: Fire-fighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

Use CO₂, chemical powder, water spray or alcohol resistant foam to extinguish.

· Unsuitable extinguishing media:

Water with full jet.

· 5.2 Special hazards arising from the substance or mixture:

No special hazards arising from the mixture.

· 5.3 Advice for firefighters

Protective equipment:

Wear self-contained breathing apparatus for firefighting.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

· 6.1.1 For non-emergency personnel

Protective equipment:

Eye protection and respiration protection.

Emergency procedures:

Ensure adequate ventilation.

Avoid breathing dust.

Avoid contact with eyes.

· 6.1.2 For emergency responders

Personal protective equipment:

Eye protection and respiration protection.

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• **6.2 Environmental precautions:**

Prevent further leakage or spillage if safe to do so.

Prevent spillage from entering drains, sewer, basement or confined areas.

If the spillage contaminates rivers, lakes or drains inform respective authorities.

• **6.3 Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose contaminated material as waste according to section 13.

• **6.4 Reference to other sections:**

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

SECTION 7: Handling and storage

• **7.1 Precautions for safe handling:**

Ensure adequate ventilation at workplace.

Avoid breathing dust.

Avoid contact with eyes.

• **Information about fire and explosion protection:**

Normal measures for preventive fire protection.

• **7.2 Conditions for safe storage, including any non-compatibility**

• **Requirements to be met by storerooms and receptacles:**

Store in a cool and well-ventilated place.

• **Information about storage in one common storage facility:**

No further requirements.

• **Further information about storage conditions:**

No further requirements.

• **Storage class:**

13.

• **7.3 Specific end use(s):**

See section 1.2.

SECTION 8: Exposure controls/personal protection

• **8.1 Control parameters**

• **Ingredients with limit values that require monitoring at the workplace:**

Country	Limit value - Eight hours	Limit value - Short term
56-81-5 Glycerin		
Belgium	10 mg/m ³	-
Finland	20 mg/m ³	-
France	10 mg/m ³	-
Germany (DFG)	200 mg/m ³ Inhalable fraction	400 mg/m ³ Inhalable fraction; 15 minutes average value

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Ireland	10 mg/m ³	-
Poland	10 mg/m ³	-
Spain	10 mg/m ³	-
United Kingdom	10 mg/m ³	-

• **DNELs:**

DNEL type		DNEL worker value	DNEL consumer value
56-81-5 Glycerin			
Local Effects	Long-term, inhalation exposure	56 mg/m ³	33 mg/m ³
	Long-term, oral exposure	-	229 mg/kg bw/day
64-02-8 Edetate sodium			
Local Effects	Long-term, inhalation	1.5 mg/m ³	600 µg/m ³
	Acute /short term, inhalation	3 mg/m ³	1.2 mg/m ³
Systemic effects	Long-term, oral exposure	-	25 mg/kg bw/day

• **PNECs:**

PNEC type	Value
56-81-5 Glycerin	
Freshwater	885 µg/L
Intermittent releases (freshwater)	8.85 mg/L
Marine water	88.5 µg/L
Sewage treatment plant (STP)	1 g/L
Sediment (freshwater)	3.3 mg/kg sediment dw
Sediment (marine water)	330 µg/kg sediment dw
64-02-8 Edetate sodium	
Freshwater	2.2 mg/L
Intermittent releases (freshwater)	1.2 mg/L
Marine water	220 µg/L
Sewage treatment plant (STP)	43 mg/L

• **Additional information:**

The lists valid during the marking were used as basis.

• **8.2 Exposure controls**

• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

• **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice.

Wash hands and face before breaks and at the end of work.

See section 7 for information about design of technical facilities.

• **Personal protective equipment**

• **Eye and face protection:**

No special eye and face protection required.

• **Skin protection**

• **Hand protection:**

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No special protection of hands required.

• **Other skin protection:**

No special protection required.

• **Respiration protection:**

Dust mask is recommended.

• **Thermal hazards:**

No special requirement.

• **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

• **9.1 Information on basic physical and chemical properties**

• Physical state	Solid, flake.
• Color	White
• Odor & Odor threshold	Odorless
• Melting point/freezing point (or softening point/range)	Not determined
• Boiling point or initial boiling point and boiling range	100°C (Water)
• Flammability	Not flammable solid
• Lower and upper explosion limit	Not determined
• Flash point	Not applicable
• Auto-ignition temperature	Not determined
• Decomposition temperature	Not determined
• pH	4-8 (20°C, 10g/100ml)
• Kinematic viscosity (mm²/s)	Not applicable
• Solubility	Part is soluble in water
• Partition coefficient n-octanol/water (log value)	Not determined
• Vapor pressure	Not determined
• Density and/or relative density	Not determined
• Relative vapor density	Not determined
• Particle characteristics	Not determined

• **9.2 Other information**

• **9.2.1 Information with regard to physical hazard classes:**

• Explosives	Not applicable
• Flammable gases	Not applicable
• Aerosols	Not applicable
• Oxidising gases	Not applicable
• Gases under pressure	Not applicable
• Flammable liquids	Not applicable
• Flammable solids	Not applicable
• Self-reactive substances and mixtures	Not applicable

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· Pyrophoric liquids	Not applicable
· Pyrophoric solids	Not applicable
· Self-heating substances and mixtures	Not applicable
· Substances and mixtures, which emit flammable gases in contact with water	Not applicable
· Oxidizing liquids	Not applicable
· Oxidizing solids	Not applicable
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable
· Desensitised explosives	Not applicable
· 9.2.2 Other safety characteristics	
· Mechanical sensitivity	Not applicable
· Self-accelerating polymerisation temperature	Not applicable
· Formation of explosible dust/air mixtures	Not applicable
· Acid/alkaline reserve	Not determined
· Evaporation rate	Not applicable
· Miscibility	Not applicable
· Conductivity	Not applicable
· Corrosiveness	Not applicable
· Gas group	Not applicable
· Redox potential	Not applicable
· Radical formation potential	Not applicable
· Photocatalytic properties	Not applicable
· Other physical and chemical parameters	Not determined

SECTION 10: Stability and reactivity

· 10.1 Reactivity:

The product is non-reactive under normal conditions of use, storage and transport.

· 10.2 Chemical stability:

Under storage at normal ambient temperatures, the product is stable.

· 10.3 Possibility of hazardous reactions:

No known hazardous reaction.

· 10.4 Conditions to avoid:

High temperature.

· 10.5 Incompatible materials:

Strong oxidizing agent and acids.

· 10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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• **11.1 Information on toxicological effects**

• **Acute toxicity:**

Based on available data, the classification criteria are not met.

• **LD50/LC50 values relevant for classification:**

56-81-5 Glycerin

Guinea pig	LD50-oral	7750mg/kg
Rat	LD50-oral	12600mg/kg
Mouse	LD50-oral	4090mg/kg
Rabbit	LD50-oral	27000mg/kg
	LD50-skin	>10000mg/kg

7647-14-5 Sodium chloride

Mouse	LD50-oral	4000mg/kg
Rabbit	LD50-skin	>10000mg/kg
Rat	LD50-oral	3000mg/kg
	LC50-inhalation	> 42000mg/m ³ /1H

64-02-8 Edetate sodium

Rat	LD50-oral	1780-2000mg/kg
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3794-83-0 Tetrasodium etidronate

Rat	LD50-oral	990mg/kg
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Remark: All the above data are from literature.

• **Skin corrosion/irritation:**

Based on available data, the classification criteria are not met.

• **Serious eyes damage/ irritation:**

Based on available data, the classification criteria are not met.

• **Respiratory or skin sensitization:**

Based on available data, the classification criteria are not met.

• **Germ cell mutagenicity:**

Based on available data, the classification criteria are not met.

• **Carcinogenicity:**

Based on available data, the classification criteria are not met.

• **Reproductive toxicity:**

Based on available data, the classification criteria are not met.

• **STOT-single exposure:**

Based on available data, the classification criteria are not met.

• **STOT-repeated exposure:**

Based on available data, the classification criteria are not met.

• **Aspiration hazard:**

Based on available data, the classification criteria are not met.

• **11.2 Information on other hazards**

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• **11.2.1 Endocrine disrupting properties:**

None of the ingredients ($\geq 0.1\%$) is considered to have endocrine-disrupting properties with respect to humans, as none of them meet the criteria set out in section A of Regulation (EU) No 2017/2100.

• **11.2.2 Other information:**

No known other relevant information on adverse health effects.

SECTION 12: Ecological information

• **12.1 Toxicity:**

LC50/EC50/NOEC values relevant for classification:

56-81-5 Glycerin

Short-term toxicity to fish	LC50 (4 days) 54 g/L
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Short-term toxicity to aquatic invertebrates	EC50 (24 h) 10 g/L
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64-02-8 Edetate sodium

Short-term toxicity to fish	LC50 (4 days) 41 - 1 592 mg/L
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Long-term toxicity to fish	NOEC (35 days) 25.7 mg/L
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Short-term toxicity to aquatic invertebrates	EC50 (48 h) 140 mg/L
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Long-term toxicity to aquatic invertebrates	NOEC (21 days) 25 mg/L
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Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 2.77 mg/L
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• **12.2 Persistence and degradability:**

56-81-5	Glycerin	Readily biodegradable in water
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64-02-8	Edetate sodium	Under test conditions no biodegradation observed
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• **12.3 Bio-accumulative potential:**

56-81-5	Glycerin	Log Pow = -1.75
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64-02-8	Edetate sodium	Log Pow = -13.17
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• **12.4 Mobility in soil:**

No available data.

• **12.5 Results of PBT and vPvB assessment:**

This mixture does not contain any substances ($\geq 0.1\%$) that are assessed to be a PBT or a vPvB.

• **12.6 Endocrine disrupting properties:**

None of the ingredients ($\geq 0.1\%$) is considered to have endocrine-disrupting properties with respect to non-target organisms, as none of them meet the criteria set out in section B of Regulation (EU) No 2017/2100.

• **12.7 Other adverse effects:**

No known other adverse effects.

• **12.8 Additional ecological information**

• **General notes:**

WGK1 (German Regulation) (self-assessment): Low hazard to waters.

Do not allow large quantities of the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration

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• **13.1 Waste treatment methods**

• **Recommendation:**

Small quantities can be disposed together with household garbage.

Large quantities disposed must be in according to the local regulation.

• **13.2 Un-cleaned packaging**

• **Recommendation:**

Dispose of contents/container in according to the local/regional/national/ international regulation.

SECTION 14: Transport information

• **ADR/RID (2021 Edition)**

This product is not subject to ADR/RID.

• **IATA-DGR (63th)**

This product is not subject to IATA-DGR.

• **IMO/IMDG (40-20)**

This product is not subject to IMO/IMDG code.

SECTION 15: Regulatory information

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

• **MAK (German Maximum Workplace Concentration):**

None of the ingredients is listed.

• **Directive 2012/18/EU**

• **Named dangerous substances-ANNEX I:**

None of the ingredients is listed.

• **Seveso category:**

Not applicable

• **Qualifying quantity (tonnes) for the application of lower-tier requirements:**

Not applicable

• **Qualifying quantity (tonnes) for the application of upper-tier requirements:**

Not applicable

• **National regulations.**

• **Water hazard class:**

WGK1 (German Regulation) (self-assessment): Low hazard to waters.

• **Other regulations, limitations and prohibitive regulations**

• **SVHC Candidate list of REACH Regulation Annex XIV Authorization:**

None of the ingredients is listed.

• **REACH Regulation Annex XVII Restriction:**

None of the ingredients is listed.

• **REACH Regulation Annex XIV Authorization List:**

None of the ingredients is listed.

• **15.2 Chemical safety assessment:**

A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

• **16.1 Indication of changes:**

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None.

16.2 Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

vPvB: very persistent and very bio accumulative

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

Acute Tox. 4: Acute toxicity, hazard category 4

Eye Dam. 1: Eye damage/irritation, hazard category 1

Eye Irrit. 2: Eye damage/irritation, hazard category 2

STOT RE 2: Specific target organ toxicity after repeated exposure, hazard category 2

• 16.3 Key literature references and sources for data:

<https://echa.europa.eu/>

<https://chem.nlm.nih.gov/>

<https://www.osha.gov/>

<http://www.unece.org/>

<http://www.imo.org/>

<https://www.dguv.de/>

<https://epa.govt.nz/>

<http://www.ilo.org/>

<https://www.phmsa.dot.gov/>

• 16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:

See section 2.1 (classification).

• 16.5 Relevant H- and EUH-phrases (number and full text):

H302 Harmful if swallowed

H332 Harmful if inhaled

H318 Causes serious eye damage

H319 Causes serious eye irritation

H373 May cause damage to organs through prolonged or repeated exposure

• 16.6 Training advice:

Workers must be trained in general and specific aspects of safe work procedures for this chemical. Workers need easy to understand guidelines and instructions for safe working with this chemical. Instructions, guidelines and legally required documents need to be available for workers in easy to understand language.

• 16.7 Further information:

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End of safety data sheet