
SECTION 1

Product & Supplier Identification

Product Name	Liquid Filled Items
Other Names	None
Product Code	GUW03 GUW07 GUW08 GUW09 GUW101 GUW102 GUW1105 GUW1106
Recommended Use	Educational Resources
Restrictions on Use	None known
Company	Modern Teaching Aids Pty Ltd
ABN	98 000 628 786
Address	Level 1, 122-126 Old Pittwater Road, Brookvale, NSW, Australia 2100
Telephone	1800 251 497
Emergency Phone Number	Australia – 13 11 26 (Poisons Information Centre)

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

1.1 Product identifier

Trade name:

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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, decoration, teaching aids, game props.

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:

O qf gtp 'Vgcej lpi 'Clf u'Rv' 'Nf'''

; : '222'84: '9: 8''

Ngxgtl3.'344/348'Qif 'Rkwy cvgt 'Tqcf. 'Dtqqmxcrg. 'PUY. 'Cwmt crk '4322'3: 22'473'6; 9

Only Representative/other EU contact point:

No information available.

Further information obtainable from:

O qf gtp 'Vgcej lpi 'Clf u'Rv' 'Nf'''

1.4 Emergency telephone number

Cwmt crk '6'35'33'48''Rqkuqpu'kphqt o cvkqp 'Egpm g+''

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:

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The product is not labelled according to CLP regulation.

·Hazard pictograms:

No applicable

·Signal word:

No applicable

·Hazard-determining components of labelling:

No applicable

·Hazard statements:

No applicable

·Precautionary statement:

No 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:

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Ingredients:

Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Polyvinyl chloride	9002-86-2	-	-	50.21	None	-
Water	7732-18-5	-	231-791-2	25.58	None	-
Glycerol	56-81-5	-	200-289-5	24.11	None	-
Toner	-	-	-	0.1	None	-

SECTION 4: First aid measures

·4.1 Description of first aid measures

General advice:

No special immediate medical required.

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.

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After eye contact:

Rinse eyes 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.

·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:

No special unsuitable extinguishing media.

·5.2 Special hazards arising from the substance or mixture:

No hazardous 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:

Dusk mask.

Emergency procedures:

Avoid breathing vapor /dust.

Avoid contact with eyes.

·6.1.2 For emergency responders

Personal protective equipment:

Use suitable protective equipment for personal protection.

·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.

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·6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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:

No special precaution for safe handling required.

·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:

12.

·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
9002-86-2 Polyvinyl chloride, total dust		
Belgium	10 mg/m ³	-
Germany (DFG)	0.3 mg/m ³ Respirable fraction	800ppm; 3000 mg/m ³ Respirable fraction; 15 minutes average value
Ireland	10 mg/m ³ Inhalable fraction; 1 mg/m ³ Respirable fraction	-
Latvia	5 mg/m ³	-
Sweden	1 mg/m ³	-
United Kingdom	10 mg/m ³ Inhalable fraction; 4 mg/m ³ Respirable fraction	-
56-81-5 Glycerol		

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Belgium	10 mg/m ³	-
Finland	20 mg/m ³	-
France	10 mg/m ³	-
Germany (AGS)	200 mg/m ³ Inhalable fraction	400 mg/m ³ Inhalable fraction; 15 minutes average value
Germany (DFG)	200 mg/m ³ Inhalable fraction	400 mg/m ³ Inhalable fraction; 15 minutes average value
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 Glycerol			
Local effects	Long-term, inhalation exposure	56 mg/m ³	33 mg/m ³
Systemic effects	Long-term, oral exposure	-	229 mg/kg bw/day

•PNECs:

PNEC type	Value
56-81-5 Glycerol	
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

•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:**

No special protection of hands required.

•Other skin protection:

No special protection required.

•Respiration protection:

Dust mask is recommended.

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·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
·Color	Cream-coloured
·Odor & Odor threshold	Odorless
·Melting point/freezing point (or softening point/range)	Not determined
·Boiling point or initial boiling point and boiling range	290 °C (Glycerol)
·Flammability	Not flammable solid
·Lower and upper explosion limit	Not determined
·Flash point	191 °C (Glycerol)
·Auto-ignition temperature	400 °C (Glycerol)
·Decomposition temperature	>290 °C (Glycerol)
·pH	4-8 (20 °C, 10g/L)
·Kinematic viscosity (mm ² /s)	Not determined
·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 applicable
·Particle characteristics	Not applicable

·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
·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

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·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 applicable
·Evaporation rate	Not applicable
·Miscibility	Not determined
·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 no-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:

Acids, strong oxidizing agents.

·10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

·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 Glycerol

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Guinea pig	LD50-oral	7750mg/kg
Rat	LD50-oral	12600mg/kg
	LC50-inhalation	> 570mg/m ³ /1H
Mouse	LD50-oral	4090mg/kg
Rabbit	LD50-oral	27000mg/kg
	LD50-skin	>10000mg/kg
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.

·Summary of evaluation of the CMR properties:

Not classified as CMR product.

·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

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:

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56-81-5 Glycerol	
Short-term toxicity to fish	LC50 (4 days) 54 g/L
Short-term toxicity to aquatic invertebrates	EC50 (24 h) 10 g/L
·12.2 Persistence and degradability:	
56-81-5 Glycerol	Readily biodegradable in water
·12.3 Bio-accumulative potential:	
56-81-5 Glycerol	Log Pow= -1.75
·12.4 Mobility in soil:	
56-81-5 Glycerol	Henry's law constant= 0.001 Pa m ³ /mol
·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

·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/regional/national/ international regulation.	
·13.2 Un-cleaned packaging	
·Recommendation:	
Dispose of contents/container in according to the local/regional/national/ international regulation.	

SECTION 14: Transport information

·14.1 UN-Number ADR/RID/ADN, IMO/IMDG, IATA-DGR	Not regulated
·14.2 UN proper shipping name ADR/RID/ADN, IMO/IMDG, IATA-DGR	Void
·14.3 Transport hazard class (es) ADR/RID/ADN, IMO/IMDG, IATA-DGR Class	Void

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Label	Void
·14.4 Packing group ADR/RID/ADN, IMO/IMDG, IATA-DGR	Void
·14.5 Marine pollution	No
·14.6 Special precautions for user	Void
·Danger code (Kemler)	Void
·EMS number	Void
·14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Void

SECTION 15: Regulatory information

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

·MAK (German Maximum Workplace Concentration):

9002-86-2	Polyvinylchloride	4
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·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:

None.

16.2 Abbreviations and acronyms:

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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

-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):

None.

-16.6 Training advice:

Workers must be educated and trained so they can read SDS and understand the hazards, and know how to work safely with hazardous products.

-16.7 Further information:

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

DISCLAIMER OF LIABILITY:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

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End of safety data sheet