Safety data sheet according to 1907/2006/EC, Article 31 modern teaching aids



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

- · 1.1 Product identifier
- · Product Code: TEB0104 Red Product Name: Teachables Permanent Marker Bullet Assorted PK12
- Article number: 10000000660
- · Registration number
- The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)
- \cdot 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Currently no such applications are identified
- · Application of the substance / the mixture alcohol based permanent marking ink
- \cdot 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Modern Teaching Aids Level 1, 122-126 Old Pittwater Rd, Brookvale, NSW PO Box 6367, Frenchs Forest, NSW 2086, Australia Phone: 1800 251 497

Fax: 1800 151 492 Web: teaching.com.au

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- \cdot Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Muta. 2 H341 Suspected of causing genetic defects.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- \cdot 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms









GHS02

GHS05

GHS08

GHS09

(Contd. on page 2)

Product Name: Teachables Permanent Marker Bullet Assorted PK12

(Contd. of page 1)

· Signal word Danger

Product Code: TEB0104

· Hazard-determining components of labelling:

C.I. Basic Red 1

C. I. Solvent Orange 3

Phosphoric acid mono-bis-(2-ethylhexyl)-ester

Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H341 Suspected of causing genetic defects.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

modern teaching aids

if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P310 P405 Store locked up.

Dispose of contents/container in accordance with local/regional/national/ P501

international regulations.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

Mixture of the following substances, containing non-hazardous substances and colouring agents.

Description:

Mixture of substances listed below with nonhazardous additions.

· Dangerous componen			
CAS: 64-17-5	ethanol	50-100%	
EINECS: 200-578-6	♦ Flam. Liq. 2, H225; ♦ Eye Irrit. 2, H319		
CAS: 107-98-2	1-methoxy-2-propanol	10-25%	
EINECS: 203-539-1	♦ Flam. Liq. 3, H226; ♦ STOT SE 3, H336		
CAS: 989-38-8	C.I. Basic Red 1	2,5-10%	
EINECS: 213-584-9	Eye Dam. 1, H318; 🌕 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🔥 Acute Tox. 4, H302		
CAS: 12645-31-7	Phosphoric acid mono-bis-(2-ethylhexyl)-ester	2,5-10%	
EINECS: 235-741-0	♦ Skin Corr. 1C, H314		
CAS: 495-54-5	C. I. Solvent Orange 3	2,5-10%	
EINECS: 207-803-7	Muta. 2, H341; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315 Muta. 2, H341; Acute Tox. 4, H302; Skin Irrit. 2, H315 Muta. 2, H341; Acute Tox. 4, H302; Skin Irrit. 2, H315 Muta. 2, H341; Acute Tox. 4, H302; Skin Irrit. 2, H315 Muta. 2, H341; Acute Tox. 4, H302; Skin Irrit. 2, H315 Muta. 2, H341; Acute Tox. 4, H302; Skin Irrit. 2, H315 Muta. 2, H341; Acute Tox. 4, H302; Skin Irrit. 2, H315 Muta. 2, H341; Acute Tox. 4, H302; Skin Irrit. 2, H315 Muta. 2, H341; Acute Tox. 4, H302; Skin Irrit. 2, H315 Muta. 2, H341; Acute Tox. 4, H302; Skin Irrit. 2, H315 Muta. 3, H341; Acute Tox. 4, H302; Skin Irrit. 2, H315 Muta. 4, H341; Acute Tox. 4, H34		

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- \cdot 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

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

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 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 good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- Storage class: 3
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

107-98-2 1-methoxy-2-propanol (10-25%)

IOELV

Short-term value: 568 mg/m³, 150 ppm

Long-term value: 375 mg/m³, 100 ppm

Skin

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



Protective gloves



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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical pro	perties
9.1 Information on basic physical and chemica	1 properties
General Information	• •
Appearance:	
Form:	Fluid
Colour:	According to product specification
Odour:	Product specific
Odour threshold:	Not determined.
Important information on protection of health	and
environment, and on safety.	-
	-
pH-value at 20°C:	0
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	78 ℃
Flash point:	13 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	287 ℃
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	1,7 Vol %
Upper:	15,0 Vol %
Vapour pressure at 20 °C:	59 hPa
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic at 20 °C:	5,1 mPas
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	80,8 %
Solids content:	15,7 %



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9.2 Other information

The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

989-38-8 C.I. Basic Red 1

Oral LD50 301 mg/kg (rat)

- Primarv irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- Serious eye damage/irritation
- Causes serious eve damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity
- Suspected of causing genetic defects.
- · 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.
 - SECTION 12: Ecological information
- · 12.1 Toxicity
- · Aquatic toxicity:

989-38-8 C.I. Basic Red 1

EC50 / 48h 0,1-0,5 mg/l (Daphnie)

LC50 / 96h | 1-5 mg/l (Fish)

- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Toxic for fish
- Additional ecological information:
- General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.



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SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue			
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS,		
	VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS		
08 01 00	wastes from MFSU and removal of paint and varnish		
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		

· Uncleaned packaging:

Marpol and the IBC Code

- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information		
· 14.1 UN-Number · ADR, IMDG, IATA	UN1263	
· 14.2 UN proper shipping name · ADR · IMDG	1263 PAINT, ENVIRONMENTALLY HAZARDOUS PAINT (xanthene dye, red, chrysoidine), MARINE POLLUTANT	
· IATA	PAINT	
· 14.3 Transport hazard class(es) · ADR		

· Class	3 (F1) Flammable liquids.	
· Label · IMDG	3	
1 1 1 1 1 1 1 1 1 1		
· Class · Label	3 Flammable liquids. 3	
· IATA		
· Class · Label	3 Flammable liquids. 3	
· 14.4 Packing group · ADR, IMDG, IATA	II	
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: xanthene dye, red, chrysoidine	
· Marine pollutant:	Yes Symbol (fish and tree)	
· Special marking (ADR):	Symbol (fish and tree)	
· 14.6 Special precautions for user · Danger code (Kemler):	Warning: Flammable liquids. 33	
· EMS Number:	F-E, <u>S-E</u>	
· Stowage Category	В —	

Not applicable.

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(Contd. of page 6) Transport/Additional information: · ADR Limited quantities (LQ) · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · Transport category · Tunnel restriction code D/E· IMDG Limited quantities (LQ) 5L · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml $\,$ 1263 Paint (dye-stuff C.I. Basic Red 1; Solvent · Remarks: Orange 3), marine pollutant · UN "Model Regulation": UN 1263 PAINT, 3, II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category
 - E2 Hazardous to the Aquatic Environment
- P5c FLAMMABLE LIQUIDS
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	50-100

- · Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H341 Suspected of causing genetic defects.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

OF Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
SVHC: Substances of Very High Concern
Flam. Liq. 2: Flammable liquids — Category 2
Flam. Liq. 3: Flammable liquids — Category 3
Acute Tox. 4: Acute toxicity — Category 4
Skin Corr. 1C: Skin corrosion/irritation — Category 1C
Skin Irrit. 2: Skin corrosion/irritation — Category 2
Eye Dam. 1: Serious eye damage/eye irritation — Category 1
Fro Irrit 2: Serious eye damage/eye irritation — Category 1

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

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Muta. 2: Germ cell mutagenicity — Category 2 STOT SE 3: Specific target organ toxicity (single exposure) — Category 3 Aquatic Acute 1: Hazardous to the aquatic environment — acute aquatic hazard — Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment — long-term aquatic hazard — Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment — long-term aquatic hazard — Category 2 * Data compared to the previous version altered.

EU