



Supporting teachers in creative education

Date of Issue: June, 2017

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Zart School ColoursMarkers

Use: Felt tipped markers in a variety of colours.

Substance: Plastic felt-tipped markers containing a small volume of an ink-like substance.

Importer:

ZartArt

48 Overseas Drive Noble Park North 3174

Ph: (03) 9890 1867

Fax: (03)98986527

2. HAZARDS IDENTIFICATION

Classification: Not classified as Hazardous according to the criteria of SWA. Not a Dangerous Good according to the Australian Dangerous Goods(ADG)Code.

Risk Phrases: Not Hazardous – No criteria found.

Safety Phrases: S25. Avoid contact with eyes.

SUSDP Classification: None allocated.

ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.

UN Number: None allocated.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Conc, %	TWA (mg/m ³)	STEL (mg/m ³)
Non hazardous dye	various	<10	Not set	Not set
Ethane 1,2-diol	107-21-1	No data	52	104
Other non hazardous ingredients	various	To 100	Not set	Not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.



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4. FIRST AID MEASURES

FIRST AID:

General: You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 131126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

Contact or Poisoning:

From the available evidence, this product would appear to offer no significant health hazard by any exposure route. Consequently, First Aid is not generally required. If in doubt, contact a Poisons Information Centre or a Doctor.

5. FIRE-FIGHTING MEASURES

Fire and Explosion Hazards:

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media:

Suitable extinguishing media are carbon dioxide, dry chemical, foam, water fog.

Fire Fighting:

If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash Point:	Combustible solid.
Upper Flammability Limit:	No data.
Lower Flammability Limit:	No data.
Autoignition Temperature:	No data.
Flammability Class:	Combustible solid.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release:

This product is solid in small packages, and the accidental release from one of these is not usually a cause for concern. For minor spills, clean up, rinsing to sewer and put empty container in garbage. Although no special protective clothing is normally necessary because of minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.



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Results :

European Standard on Safety of Toys

- **Mechanical & Physical Properties**

As specified in European standard on safety of toys EN71 Part 1:2005 + A9:2009

<u>Clause</u>	<u>Description</u>	<u>Results</u>
4	General requirements	
4.1	Material (by visual assessment)	<u>Pass</u>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
5	Toys intended for children under 36 months	
5.1	General requirements (Remark 1 : Small part was found after test. It is acceptable because appropriate age warning is found.)	<u>See Remark 1</u>
6	Packaging	<u>Pass</u>
7	Warnings and instructions for use (Note: It is drawn to your attention that the warnings, precautions and instructions for use should be given in the national language(s) of the country where the toy is sold.)	
7.1	General Requirements (Remark 2 : It is drawn to your attention that the toy or its packaging shall bear the name and address of the manufacturer or his authorized representative or the importer, and retain statement in a visible, easily legible and indelible form together with the CE-marking as declaration of conformity with the safety requirements of the directive.)	<u>See Remark 2</u>
7.2	Toys not intended for children under 36 months	<u>Pass</u>

- **Flammability of Toys**

As specified in European standard on safety of toys EN71 Part 2 : 2006 + A1:2007.

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General requirements	<u>Pass</u>



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- Migration of Certain Elements

Test Method : With reference to EN 71 Part 3:1994 + A1:2000 + AC: 2002, analysis was performed by ICP-OES

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	5	ND	ND	ND
Soluble Barium (Ba)	1,000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	5	ND	ND	ND
Soluble Barium (Ba)	1,000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	5	ND	ND	ND
Soluble Barium (Ba)	1,000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	5	ND	ND	ND
Soluble Barium (Ba)	1,000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	5	ND	ND	ND
Soluble Barium (Ba)	1,000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>	<u>017</u>	<u>018</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	5	ND	ND	ND
Soluble Barium (Ba)	1,000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

Notes :

- (1) Results shown are of the adjusted analytical results.
- (2) Mass of trace amount of sample 018 is 70.6mg
- (3) For sample 010~017:Result shown is of the total weight of wet sample.

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA11-017264.001	Red plastic barrel



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Test Report

2	SHA11-017264.002	Yellow plastic barrel
3	SHA11-017264.003	Orange plastic barrel
4	SHA11-017264.004	Green plastic barrel
5	SHA11-017264.005	Blue plastic barrel
6	SHA11-017264.006	Purple plastic barrel
7	SHA11-017264.007	Brown plastic barrel
8	SHA11-017264.008	Black plastic barrel
9	SHA11-017264.009	White plastic end plug
10	SHA11-017264.010	Red ink
11	SHA11-017264.011	Yellow ink
12	SHA11-017264.012	Orange ink
13	SHA11-017264.013	Green ink
14	SHA11-017264.014	Blue ink
15	SHA11-017264.015	Purple ink
16	SHA11-017264.016	Brown ink
17	SHA11-017264.017	Black ink
18	SHA11-017264.018	Natural fibre nib

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

N.B. : - Only applicable clauses were shown.