



Health	2
Fire	0
Reactivity	0

MATERIAL SAFETY DATA SHEET

Date Updated: 2015-08-26

Version 1.0

MSDS Reference No.: AL005177-001

1. PRODUCT AND COMPANY INFORMATION

Product Name:	liquid chalk marker
Company:	SHENZHEN SUOCAI ELECTRONIC TECHNOLOGY CO.,LIMITED
Address:	4F,No.6th building, Lianhua Industrial Park, Yingtai Industrial Center,Dalang · Longhua, Shenzhen, China.
Contact Phone No.:	86-755-29356158
Emergency Phone No.:	1-382-885-4916 (CHEMTREC- 24HR Emergency)
Emergency Phone No.:	1-581-875-8685 (CHEMTREC - International)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component		CAS Number	EC Number	Percent	
Major Ingredients (71.5%)	Titanium Dioxide (TiO ₂)	13463-67-7		8.8	
	Isopropyl Alcohol ((CH ₃) ₂ CHOH)	67-63-0	200-661-7	12.1	
	Water (H ₂ O)	7732-18-5		43.8	
	Dispersing Agent	8052-41-3		7.8	
Daylight Fluorescent Pigment (28.5%)	Black	C.I. Pigment Black-7	1333-86-4	27.5 (mixed)	
	Green	C.I. Pigment Green-7	1328-53-6		
	Blue	C.I. Pigment Blue-15:3	147-14-8		
	Red	C.I. Pigment Red-63:2	26694-69-9		
	Yellow	C.I. Pigment Yellow-83	12227-67-7		N/A
	Violet	C.I. Pigment Violet-23	6358-30-1		228-767-9
	Pink	C.I. Pigment Red-170	509-34-2		208-096-8
	Orange	C.I. Pigment Red-112	6535-46-2		229-440-3
		C.I. Pigment Yellow-83	12227-67-7		N/A
	White	C.I. Pigment White-5	25067-00-9		607-522-3
	Brown	C.I. Pigment Brown-24	68186-90-3		269-052-1
	Dark blue	C.I. Pigment Blue-15:0	1325-88-8		603-638-3
Dark green	C.I. Pigment Green-17	1308-38-9	215-160-9		

	Gold	C.I. Pigment Gold-200	7440-50-8	231-159-6	
	Silver	C.I. Pigment Silver-100	13463-67-7	236-675-5	

3. HAZARD IDENTIFICATION

NFPA Ratings (Scale 0-4)

Health	Fire	Reactivity
2	0	0

HMIS Ratings (Scale 0-4)

Health	Fire	Reactivity
2	0	0

Emergency Overview:

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Eye contact: May cause redness and irritation.

Skin contact: Prolonged or repeated contact may cause skin irritation.

Inhalation: Inhalation of mist or vapour may cause irritation of respiratory tract.

Ingestion: May be harmful if swallowed.

Principle Routes of Exposure: Skin

General advice:

This product is a consumer product. To the extent the product is used in a fashion typical to that of a consumer, protective measures, with the exception of those on the label, are not normally necessary. Where conditions and/or extent and/or duration of exposure differ from typical consumer use, appropriate protective measures to prevent eye and prolonged skin contact are recommended (Safety glasses, gloves, engineering controls, etc.). Users with skin conditions (eczema, psoriasis, etc.) respiratory conditions (asthma, bronchitis, emphysema, etc.) or with chemical sensitivities should take protective precautions.

4. FIRST-AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation persists, get medical aid immediately.

Skin: Wash with water and soap and rinse thoroughly. If hot polymer gets on skin, cool rapidly with cold water. Do not attempt to peel from skin. Seek medical treatment.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.

Inhalation: If inhaled, remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If symptoms persist, call a physician

Notes to Physician: Treat symptomatically

5. FIRE-FIGHTLING MEASURES

FIRE AND EXPLOSION HAZARDS: No fire Hazard

EXTINGUISHING MEDIA: Suitable: Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

FIRE FIGHTING: Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

FLASH POINT: N.A.

REACTIVITY: Stable

HAZARDOUS COMBUSTION PRODUCTS: Exposure to fire may liberate carbon dioxide, carbon monoxide, sulphur dioxide, sulphuric acid, water and other unidentified thermal decomposition products from this product or its packaging. Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

PROCEDURE(S) OF PERSONAL PRECAUTION(S): Wear protective equipment.

OCCUPATIONAL SPILL: Stop leak if you can do it without risk. For small spills, take up with sand or other absorbent material and place into containers for later disposal. For larger spills, dike far ahead of spill for later disposal. Keep unnecessary people away; isolate hazard area and restrict entry.

METHODS FOR CLEANING UP: Large spills should be treated with dry absorbent and disposed at legal waste disposal site. Small spills can be flushed with water to sewage drain linked to waste treatment facility.

7. HANDLING AND STORAGE

HANDLING: Use with adequate ventilation. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skins and clothing. Empty containers retain product residue, (liquid and/or vapour), and can be dangerous. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

STORAGE: Keep away from heat and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Ensure adequate ventilation, especially in confined space.

PERSONAL PROTECTIVE EQUIPMENT

EYES: Not required especially.

SKIN: Not required especially.

CLOTHING: Wear appropriate protective clothing to prevent skin exposure.

RESPIRATORS: Not normally required

HYGIENE MEASURES: Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. Keep working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

PHYSICAL FORM: Liquid

ODOR: Essentially Odourless

BOILING POINT: 100°C

MELTING POINT: Not Available

FLASH POINT: Not Available

VAPOR PRESSURE: Not Applicable

VAPOR DENSITY: Not Applicable

SPECIFIC GRAVITY (water=1): 1.02

WATER SOLUBILITY: Dilutable With Water

pH: 7

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not Available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Ignition sources, excess heat, strong oxidants & direct sunlight. Dangerous gases may accumulate in confined spaces. May ignite or explode on contact with combustible materials

Incompatibilities with Other Materials: Strong oxidizing agents, Metals and metallic salts, acids.

Hazardous Decomposition Products: Exposure to fire may liberate carbon dioxide, carbon monoxide, sulphur dioxide, sulphuric acid, organic acids, other unidentified thermal decomposition products from this product or its packaging.

Hazardous Polymerization: Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

EFFECTS OF OVER EXPOSURE: None in our experience under normal conditions of handling and use.

CARCINOGENICITY: No component of this product is identified as acarcinogenic by ACGIH, IARC, NTP, or CA Prop 65

IRRITANCY OF MATERIAL: No significant irritation expected other than possible mechanical irritation; dense dust generated by the handling and/or processing of this material may be irritating to the eyes, skin, nose and throat.

SENSITIZATION: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Toxicity data for major constituents

Isopropyl Alcohol

ORL-RAT LD50: 5045 mg kg-1

SKN- RABBIT LD50: 12.8 gm/kg-1

IHL-RAT LC50: 16,000 ppm/8h

12. ECOLOGICAL INFORMATION

May be disposed on with normal procedures with limited ecological impact. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Available Ecological Data:

For Isopropyl Alcohol

96 hours LC50 for *Pimephales promelas* fathead minnow (29 days old) is 11130 mg/L

24 hours LC50 for *Daphnia magna* is 9500 mg/l

13. DISPOSAL CONSIDERATIONS

Waste material is not a hazardous waste. Dispose of in accordance with applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

This product is not a DOT hazardous material; Not dangerous goods for transport

IATA/IMO: Non-hazardous for air transport.

15. REGULATORY INFORMATION

International:

IATA: Not regulated

ICAO: Not regulated

IMDG: Not regulated

Canada: DSL/NDSL: This product is included on the Canadian Domestic Substance List.

Canada: TDG: Not regulated

Canada: WHMIS: Not a controlled product.

EU: All components of this product are listed on EINECS or are exempt from EINECS registration.

Federal:

DOT: Not hazardous

OSHA: This product is not hazardous under the criteria of Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

SARA: No ingredients listed

TSCA: This product is certified for inclusion on the TSCA Inventory of Chemical Substances.

State:

CA: Proposition 65: This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

Labelling according to EEC Directives:

The above ingredients are not classified in the Annex I of Directive 67/548/EEC and are not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances).

16. OTHER INFORMATION

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with our products, and determine its environmental compliance obligations under any applicable federal or state laws.