

Report No.: G160602B04EN

Date: Jun. 12, 2016

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name	:	PERMANENT UV MARKER
Product Model	:	S-20
Company Name	:	Ningbo Shanhuang Electric Appliance Company
Address	:	No.115 Xingongyi Road, Xinxing Industrial Area, Ninghai, Ningbo, China 315600
Contact Person	:	JANE
Tel	:	+86-574-65330068
Emergency Tel	:	+86-(0)13566025904

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008[EU-GHS/CLP]

Flammable liquids (Category 3), H226

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

Flammable liquids (Category 2), H225

Eye irritation (Category 2), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008[EU-GHS/CLP]

Pictogram

Signal word	Danger
Hazard statement(s)	
H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
Precautionary statement(s)	
P261	Avoid breathing vapours.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition
	sources. No smoking.
P280	Wear eye protection/ face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P403 + P235	Store in a well-ventilated place. Keep cool.



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2.3 Other hazards

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures(consisting of the following substances)

		-		
Quitestance nome		Classification		
Substance name	Value (%)	According to Regulation (EC) No. 1272/2008		
1. For Black:	I			
Propylene glycol monomethyl ether CAS No.: 107-98-2 EC No.: 203-539-1 Index-No.: 603-064-00-3	35.0	Flam. Liq. 3; STOT SE 3; H226, H336		
Rosin modified maleic resine CAS No.: 68309-40-0	10.0	NA		
Ethyl alcohol CAS No.: 64-17-5 EC No.: 200-578-6 Index-No.: 603-002-00-5	48.0	Flam. Liq. 2; Eye Irrit. 2; H225, H319		
Solvent Black 27 CAS No.: 12237-22-8	7.0	NA		
<u>2. For Blue:</u>				
Propylene glycol monomethyl ether CAS No.: 107-98-2 EC No.: 203-539-1 Index-No.: 603-064-00-3	35.0	Flam. Liq. 3; STOT SE 3; H226, H336		
Rosin modified maleic resine CAS No.: 68309-40-0	10.0	NA		
Ethyl alcohol CAS No.: 64-17-5 EC No.: 200-578-6 Index-No.: 603-002-00-5	48.0	Flam. Liq. 2; Eye Irrit. 2; H225, H319		
Solvent Blue 70 CAS No.: 12237-24-0 EC No.: 602-674-7	6.0	Aquatic Chronic 3; H412		
Solvent Red 218 CAS No.: 82347-07-7	1.0	NA		
<u>3. For Red:</u>				
Propylene glycol monomethyl ether CAS No.: 107-98-2 EC No.: 203-539-1 Index-No.: 603-064-00-3	35.0	Flam. Liq. 3; STOT SE 3; H226, H336		
Rosin modified maleic resine CAS No.: 68309-40-0	10.0	NA		
Ethyl alcohol CAS No.: 64-17-5 EC No.: 200-578-6 Index-No.: 603-002-00-5	48.0	Flam. Liq. 2; Eye Irrit. 2; H225, H319		



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		Classification		
Substance name	Value (%)	According to Regulation (EC) No. 1272/2008		
Solvent Red 218 CAS No.: 82347-07-7	5.0	NA		
Solvent Yellow 82 CAS No.: 12227-67-7 EC No.: 602-487-0	2.0	NA		
<u>4. For Green:</u>				
Propylene glycol monomethyl ether CAS No.: 107-98-2 EC No.: 203-539-1 Index-No.: 603-064-00-3	35.0	Flam. Liq. 3; STOT SE 3; H226, H336		
Rosin modified maleic resine CAS No.: 68309-40-0	10.0	NA		
Ethyl alcohol CAS No.: 64-17-5 EC No.: 200-578-6 Index-No.: 603-002-00-5	48.0	Flam. Liq. 2; Eye Irrit. 2; H225, H319		
Solvent Blue 70 CAS No.: 12237-24-0 EC No.: 602-674-7	4.0	Aquatic Chronic 3; H412		
Solvent Yellow 82 CAS No.: 12227-67-7 EC No.: 602-487-0	3.0	NA		
<u>5. For Sky-blue:</u>				
Propylene glycol monomethyl ether CAS No.: 107-98-2 EC No.: 203-539-1 Index-No.: 603-064-00-3	35.0	Flam. Liq. 3; STOT SE 3; H226, H336		
Rosin modified maleic resine CAS No.: 68309-40-0	10.0	NA NA		
Ethyl alcohol CAS No.: 64-17-5 EC No.: 200-578-6 Index-No.: 603-002-00-5	48.0	Flam. Liq. 2; Eye Irrit. 2; H225, H319		
Solvent Blue 70 CAS No.: 12237-24-0 EC No.: 602-674-7	7.0	Aquatic Chronic 3; H412		
6. For Yellow-green:	. I			
Propylene glycol monomethyl ether CAS No.: 107-98-2 EC No.: 203-539-1 Index-No.: 603-064-00-3	35.0	Flam. Liq. 3; STOT SE 3; H226, H336		
Rosin modified maleic resine CAS No.: 68309-40-0	10.0	NA		
Ethyl alcohol CAS No.: 64-17-5 EC No.: 200-578-6 Index-No.: 603-002-00-5	48.0	Flam. Liq. 2; Eye Irrit. 2; H225, H319		



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		Classification
Substance name	Value (%)	According to Regulation (EC) No. 1272/2008
Solvent Blue 70 CAS No.: 12237-24-0 EC No.: 602-674-7	2.0	Aquatic Chronic 3; H412
Solvent Yellow 82 CAS No.: 12227-67-7 EC No.: 602-487-0	5.0	NA
<u>7. For Violet:</u>		
Propylene glycol monomethyl ether CAS No.: 107-98-2 EC No.: 203-539-1 Index-No.: 603-064-00-3	35.0	Flam. Liq. 3; STOT SE 3; H226, H336
Rosin modified maleic resine CAS No.: 68309-40-0	10.0	NA
Ethyl alcohol CAS No.: 64-17-5 EC No.: 200-578-6 Index-No.: 603-002-00-5	48.0	Flam. Liq. 2; Eye Irrit. 2; H225, H319
Solvent Blue 70 CAS No.: 12237-24-0 EC No.: 602-674-7	2.0	Aquatic Chronic 3; H412
Solvent Red 218 CAS No.: 82347-07-7	5.0	NA
<u>8. For Pink:</u>	· · · · · ·	
Propylene glycol monomethyl ether CAS No.: 107-98-2 EC No.: 203-539-1 Index-No.: 603-064-00-3	35.0	Flam. Liq. 3; STOT SE 3; H226, H336
Rosin modified maleic resine CAS No.: 68309-40-0	10.0	NA
Ethyl alcohol CAS No.: 64-17-5 EC No.: 200-578-6 Index-No.: 603-002-00-5	48.0	Flam. Liq. 2; Eye Irrit. 2; H225, H319
Solvent Red 218 CAS No.: 82347-07-7	7.0	NA
<u>9. For Orange:</u>	1	
Propylene glycol monomethyl ether CAS No.: 107-98-2 EC No.: 203-539-1 Index-No.: 603-064-00-3	35.0	Flam. Liq. 3; STOT SE 3; H226, H336
Rosin modified maleic resine CAS No.: 68309-40-0	10.0	NA
Ethyl alcohol CAS No.: 64-17-5 EC No.: 200-578-6 Index-No.: 603-002-00-5	48.0	Flam. Liq. 2; Eye Irrit. 2; H225, H319
Solvent Red 218 CAS No.: 82347-07-7	2.0	NA



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Substance nome		Classification		
Substance name	Value (%)	According to Regulation (EC) No. 1272/2008		
Solvent Yellow 82 CAS No.: 12227-67-7 EC No.: 602-487-0	5.0	NA		
<u>10. For Yellow:</u>				
Propylene glycol monomethyl ether CAS No.: 107-98-2 EC No.: 203-539-1 Index-No.: 603-064-00-3	35.0	Flam. Liq. 3; STOT SE 3; H226, H336		
Rosin modified maleic resine CAS No.: 68309-40-0	10.0	NA		
Ethyl alcohol CAS No.: 64-17-5 EC No.: 200-578-6 Index-No.: 603-002-00-5	48.0	Flam. Liq. 2; Eye Irrit. 2; H225, H319		
Solvent Yellow 82 CAS No.: 12227-67-7 EC No.: 602-487-0	7.0	NA		
Note: NA = Not applicable.				

4. FIRST AID MEASURES

Inhalation	:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin contact	:	Wash off with soap and plenty of water. Consult a physician.
Eye contact	Ð	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion		Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the	:	Carbon oxides.
substance or mixture		Flash back possible over considerable distance. Container explosion may occur under fire conditions. Vapours may form explosive mixture with air. May form peroxides of unknown stability.
Advice for firefighters	:	Wear self contained breathing apparatus for fire fighting if necessary.
Further information	:	No data available.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions :	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions :	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods for cleaning up :	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.
7. HANDLING AND STORAGE	
Storage :	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Air sensitive. Forms explosive peroxides on prolonged storage May form peroxides on contact with air. Storage class (TRGS 510): Flammable liquids
Handling :	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters.

8.2 Exposure controls

- Appropriate engineering controls
- General industrial hygiene practice.
- Personal protective equipment
- Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators

Keep away from sources of ignition - No smoking. Take measures

to prevent the build up of electrostatic charge.

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Body protection	 and components tested and approved und government standards such as NIOSH (US) impervious clothing, Flame retardant antist The type of protective equipment must be concentration and amount of the dangerous specific workplace. 	S) or CEN (EU). tatic protective clothing. selected according to the
Eye/face protection	: Face shield and safety glasses Use equipr	nent for eye protection
Skin protection	 tested and approved under appropriate go as NIOSH (US) or EN 166(EU). Handle with gloves. Gloves must be insper proper glove removal technique (without to surface) to avoid skin contact with this proper 	cted prior to use. Use buching glove's outer duct. Dispose of
	contaminated gloves after use in accordan and good laboratory practices. Wash and	

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	-	Liquid.
Colour	:	Black, Blue, Red, Green, Sky-blue, Yellow-green, Violet, Pink,
		Orange, Yellow.
pH :	:	4.5 – 10.0.
Boiling point/range	:	70 °C.
Melting point/range	:	No data available.
Flash point	:	No data available.
Ignition temperature	:	No data available.
Evaporation rate	:	No data available.
Density	:	No data available.
Solubility in other solvents	:	No data available.
Explosive properties	:	No data available.
Oxidising properties	:	No data available.
Vapour pressure	:	No data available.
Relative density	:	No data available.
Water solubility	:	Soluble.
Viscosity	:	No data available.

10. STABILITY AND REACTIVITY

Chemical stability

No data available.

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Reactivity
Possibility of hazardous reactions
Hazardous decomposition products
Materials to avoid
Conditions to avoid

No data available.

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No data available.

No data available.

- Strong oxidizing agents, Peroxides.
- Heat, flames and sparks.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	:	<u>CAS No. 64-17-5:</u> LD50 Oral - Rat - 10470 mg/kg LC50 Inhalation - Rat - 4 h - 30000 mg/l LD50 Dermal - Rabbit - 15800 mg/kg <u>CAS No. 107-98-2:</u> LD50 Oral - Mouse - 11700 mg/kg LC50 Inhalation - Rat - 5 h - 10000 ppm LD50 Dermal - Rabbit - 13000 mg/kg
Skin corrosion/irritation	:	No data available.
Serious eye damage/eye irritation	:	May cause mild eye irritation.
Respiratory or skin sensitization	:	No data available.
Reproductive toxicity	:	No data available.
Germ cell mutagenicity	:	No data available.
Carcinogenicity	:	No data available.
Reproductive toxicity	:	No data available.
Specific target organ toxicity - single exposure	R	No data available.
Specific target organ toxicity - repeated exposure	:	No data available.
Aspiration hazard	:	No data available.
Potential health effects	:	No data available.
Signs and Symptoms of Exposure	:	No data available.
Additional Information	:	No data available.

:

12. ECOLOGICAL INFORMATION

Toxicity

<u>CAS No. 64-17-5:</u> Toxicity to fish: LC50 - Pimephales promelas (fathead minnow) - 14200 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates:



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		LC50 - Ceriodaphnia dubia (water flea) - 5012 mg/l - 48 h NOEC - Daphnia magna (Water flea) - 9.6 mg/l - 9 d Toxicity to algae: EC50 - Chlorella vulgaris (Fresh water algae) - 275 mg/l - 72 h
Dereistance and degradability		
Persistence and degradability	·	No data available.
Bioaccumulative potential	:	No data available.
Mobility in soil	:	No data available.
Results of PBT and vPvB assessment	:	No data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number		
ADR/RID: 1210	IMDG: 1210	IATA: 1210
14.2 UN proper shipping name		
ADR/RID	: PRINTING INK, flammable.	
IMDG	: PRINTING INK, flammable.	
ΙΑΤΑ	: PRINTING INK, flammable.	
14.3 Transport hazard class(es)		
ADR/RID: 3	IMDG: 3	IATA: 3
14.4 Packaging group		
ADR/RID: III	IMDG: III	IATA: III
14.5 Environmental hazards		
ADR/RID: No.	IMDG Marine Pollutant: No.	IATA: No.



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15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No data available. Chemical Safety Assessment No data available.

16. OTHER INFORMATION

Full text of H-Statements re	ferred to under sections 2
H226	: Flammable liquid and vapour.
H336	: May cause drowsiness or dizziness.
H225	: Highly flammable liquid and vapour.
H319	: Causes serious eye irritation.

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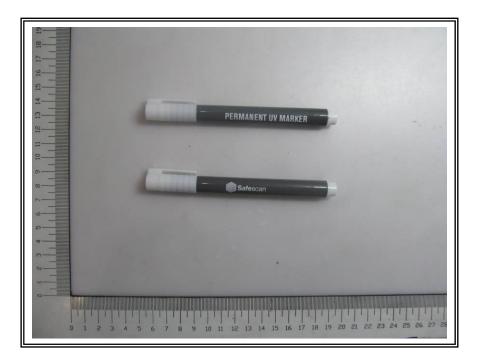


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Sample Photo(s):



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