

MATERIAL SAFETY DATA SHEET for _____SH-5518E_____

1. Product and company information

Product name: 5518E
Product code: /
Names, addresses, and phone numbers of the manufacturer or supplier: 298 wu tang Road shanghai Comprehensive industrial Development Zone China Phone:(86)21 5743 1001 FAX:(86)21 5743 2002
Emergency contact phone numbers/fax numbers: Imaje S A:(33)4 75 75 55 00 INRS*(Orfila):(33)1 45 42 59 59

2. Ingredients identification information

Pure material:

Chinese and English name: Ethanol
Synonyms: F
C.A.S. No.:64-17-5
The hazardous ingredient (% of the content): 45%-55%
Chinese and English name: Isopropyl acetate
Synonyms: F-XI
C.A.S. No.:108-21-4
The hazardous ingredient (% of the content):15%-25%
Chinese and English name: Cellulose nitrate
Synonyms: F
C.A.S. No.:
The hazardous ingredient (% of the content):<3%
Chinese and English name: Methanol
Synonyms: F-T
C.A.S. No.: 67-56-1
The hazardous ingredient (% of the content): <2%
Chinese and English name: Propan-2-OL

Synonyms: F-Xi
C.A.S. No.: 67-63-0
The hazardous ingredient (% of the content):<1%

Mixture:

Chemical property:		
Chinese and English names of the hazardous ingredients	Concentration or concentration ranges (% of contents)	Classification and hazard symbols of the hazardous material

3. Hazards identification information:

The most important hazardous effect	Adverse health effects: Irritating to eyes Repeated exposure may cause skin dryness or cracking Vapours may cause drowsiness and dizziness
	Environmental effects: Nil
	Physical and chemical effects: Highly flammable Leaks of gas or spills of liquid can readily form flammable mixtures at or above the flash point.
	Specific hazards:Nil
Main symptoms: Not Applicable	
Hazard classification of the product: Not Applicable	

4. First-aid Measures:

The first-aid measures for different exposure routes:
<ul style="list-style-type: none"> • inhalation: Using proper respiratory ,immediately remove the affected victim from exposure Administer artificial respiration if breathing is stopped keep at rest call for prompt medical attention. • skin contact: Flush with large amounts of water use soap if available Remove grossly contaminated clothing including shoes and launder before reuse consult a doctor if irritation

persists.

- eye contact: Immediately flush eyes with large amounts of water for at least 15 minutes Get prompt medical attention.
- Ingestion: If swallowed do not induce vomiting keep at rest Get prompt medical attention

The most important symptoms and hazardous effects: Pounding injury

The protection of first-aiders: Nil

Notes to physicians: Nil

5. Fire-fighting measures:

Suitable fire extinguishing media: Dry chemical

Specific hazards may be encountered during fire-fighting: Pounding injury

Specific fire-fighting methods: Not required

Special equipment for the protection of firefighters: Not required

6. Accidental release measures:

Personal precautions: Not Applicable

Environmental precautions: Not Applicable

Methods for cleaning up: advise authorities if the ground water .contain spilled liquid with sand or earth .dilute contained spill with water.

7. Safe handling and storage measures:

Handling: Handle containers with care open slowly in order to control possible pressure release. Do not handle or open near an open flame, sources of heat or sources of ignition Do not pressurize cut heat or weld containers Empty product containers may contain product residue Do not reuse empty containers without commercial cleaning or reconditioning container remains hazardous when empty continue to observe all precautions.

Storage: Keep container closed. Store in a cool well-ventilated place away from incompatible materials. Do not store near an open flame, sources of heat or sources of ignition protect material from direct sunlight. The floor of the premises must be keep product its original packaging.

8. Exposure controls measures:

Engineering control: The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space , is heated above ambient temperature or otherwise to maintain

ambient concentration below the recommended threshold exposure limits. Use explosion-proof ventilation equipment.

Control parameters:

- ♦ 8 hours time weighted average exposure limits/Short-term exposure limits/maximum exposure limits:

	Limit value(8 hours)	limit value(short-term)
Ethanol	1000PPM	5000PPM
Isopropyl acetate	250PPM	300PPM
Methanol	200PPM	1000PPM
Propan-2-ol		400PPM

- ♦ biological standards: Not Applicable

Personal protective equipment:

- ♦ respiratory protection: Where concentrations in air may exceed the limits given in this section, it is recommended to use a half face filter mask to protect from overexposure by inhalation.
- ♦ hand protection: When handling this product, it is recommended to wear chemical resistant gloves(butyl rubber). Gloves should be replaced immediately if sign degradation is observed.
- ♦ eye protection: When handling this product it is recommended to wear splash resistant goggles. Allow a washing solution for the eyes.
- ♦ skin and body protection: Not Applicable

Hygiene measures: according to good industrial and safety practice.

9. Physical and chemical properties:

Physical state: White liquid	Form: Geometric
Color :White	Odor: alcohol
PH value: not applicable	Boiling point/boiling range:<-70°C/>60°C

Decomposition temperature: not applicable	Flashpoint: 36 °F 2 °C Test method: not applicable Open cup: not applicable Close cup: not applicable
Autoignition temperature:>350 °C	Explosion limits:
Vapor pressure:5.9Kpa at 20 °C	Vapor density:>1
Density:0.94<<0.95	Solubility: Insoluble

10. Stability and reactivity:

Stability: Stable
Possible hazardous reactions occurring under specific conditions: no
Conditions to avoid:Nil
Materials to avoid: Strong oxidizing agents
Hazardous decomposition products: None

11. Toxicological information:

Acute toxicity: Vapour concentrations above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anaesthetic and may have other central nervous system, effects.
Local effects: Nil
Sensitization: Nil
Chronic toxicity or long term toxicity: Repeated inhalation of ethanol vapours may cause an irritation of the eyes and the respiratory tract, headaches, tiredness and areduction of the concentration and vigilance capacities.
Specific effects: Nil

12. Ecological information:

Possible environmental effects/environmental mobility: ETHANOL WGK*0 Degradability: Readily biodegradable
--

Ecotoxicity :

LC50*(fishes 48hours)=8140mg/L

EC50*(daphnia 48hours)>9260mg/L

EC50*(bacteria 16hours)=6500mg/L

ISOPROPYL ACETATE

WGK*1

METHANOL

WGK*1

PROPAN-2-OL

WGK*1

13. Waste disposal measures:

Methods of waste disposal: Empty containers should be taken for recycling recovery or disposal through a suitably qualified or licensed contractor. This product is not suitable for disposal by either landfill or via municipal sewers, drains natural streams or rivers. This product can care should in any case be taken to ensure compliance with national and local regulations.

14. Transport information:

International regulations for transport:

Name of substance: Printing ink

Substance identification NO,	Hazard identification NO.	Label(s)	Class	Item number and letter
1210	33	3	3	5° b

United Nation number (UN No):1210

Domestic regulations for transport:

Proper shipping name: Printing ink

UN	Class	Hazard Label(s)	Packing group	Packing instructions	Maxi next quantity package	packing instructions	Maxi next quantit package
1210	3	3	ii	y305/305	1L/5L	307	60L

Specific transport measures and precautionary conditions:Handle with care, avoid dropping

15. Regulatory information:

Applicable regulations: EUROPEAN COMMUNITY/USA

16. Other information:

Literature references	EEC/ISO/INRS/CAS/EINECS/TLV/TWA/STEL/WGK/ADR/IMDG/UN IBC/IATA/ERG/EC/NFPA
Organization That prepared the MSDS	Name: ZHE JIANG KEDA Magnetoelectricity co., ltd
	Address/Telephone: NO.525 Quyuan road North wukang town,Deqing county Zhejiang prov china
Prerson who Prepared the MSDS	Job title: Deputy QC manager
	Name: (signature) cao jiang song
Date the MSDS Was prepared	2013-1-21

ATTACHMENT 6

Hazardous Materials Inventory List

Chemical Name : _____

Synonyms:

Product Name : _____

Manufacturer or supplier Name : _____

Address : _____

Telephone Number : _____

Usage Information

Location	Frequency of Use	Quantity	Used By

Storage Information

Location	Quantity

List Preparation Date: