

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Identification of the preparation	11 Series (11S/11L)
Product use	Inkjet printing
Version #	10
Revision date	19-Jan-15
CAS #	Mixture
Company identification	Sojet Electronics(XiaMen) Co.,Ltd. Room 402 4/F, Hong Ye Building,Chuang Ye Park, Torch Hi-Tech Industrial Development Zone, XiaMen, Fujian, China
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## 2. Hazards Identification

Emergency overview	Contact with skin and eyes may result in irritation.
Acute health effects	Any potential hazards are presumed to be due to exposure to the components.
Skin contact	2-pyrrolidone Contact with skin may result in irritation.
Eye contact	2-pyrrolidone Contact with eyes may result in irritation. Isopropyl Alcohol Contact with eyes may result in severe irritation.
Inhalation	2-pyrrolidone Inhalation may result in respiratory irritation. Isopropyl Alcohol Inhalation may cause drowsiness or dizziness.
Ingestion	2-pyrrolidone Ingestion may result in nausea, vomiting and diarrhea.
Potential health effects	
Routes of exposure	Potential routes of overexposure to this product are skin and eye contact  Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions.  Complete toxicity data are not available for this specific formulation
Chronic health effects	None known.
Carcinogenicity	Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

### 3. Composition / Information on Ingredients

Components	CAS #	Percent
Water	7732-18-5	< 80
2-pyrrolidone	616-45-5	< 15
Carbon black	1333-86-4	< 5
Isopropyl Alcohol	67-63-0	< 2.5

Composition comments This ink supply contains an aqueous ink formulation. This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

Carbon black is present only in a bound form in this preparation.

### 4. First Aid Measures

#### First aid procedures

Eye contact	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.
Skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
Inhalation	Move to fresh air. If symptoms persist, get medical attention.
Ingestion	If ingestion of a large amount does occur, seek medical attention.

General advice No additional information

### 5. Fire Fighting Measures

Flammable properties	None known.
Extinguishing media	
Suitable extinguishing media	CO2, water, dry chemical, or foam
Unsuitable extinguishing media	None known.
Specific methods	None established.
Hazardous combustion products	Refer to section 10.

### 6. Accidental Release Measures

Personal precautions	Wear appropriate personal protective equipment.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
Methods for containment	Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.
Methods for cleaning up	Soak up with inert absorbent material.
Other information	Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.

### 7. Handling and Storage

Handling	Avoid contact with skin, eyes and clothing.
Storage	Keep out of the reach of children. Keep away from excessive heat or cold.

### 8. Exposure Controls / Personal Protection

#### Occupational exposure limits

##### ACGIH

Components	Type	Value	Form
Carbon black (1333-86-4)	TWA	3.0000 mg/m <sup>3</sup>	Inhalable fraction.
Isopropyl Alcohol (67-63-0)	BEI	40.0000 mg/l	
	STEL	400.0000 ppm	

Components	Type	Value	Form
	TWA	200.0000 ppm	

U.S. - OSHA			
Components	Type	Value	
Isopropyl Alcohol (67-63-0)	PEL	400.0000 ppm	
		980.0000 mg/m3	

U.S. - Tennessee			
Components	Type	Value	
Carbon black (1333-86-4)	TWA	3.5000 mg/m3	
Isopropyl Alcohol (67-63-0)	STEL	500.0000 ppm	
		1225.0000 mg/m3	
	TWA	400.0000 ppm	
		980.0000 mg/m3	

Exposure guidelines	Exposure limits have not been established for this product.
Engineering controls	Use in a well ventilated area.
Personal protective equipment	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
General	Use personal protective equipment to minimize exposure to skin and eye.

## 9. Physical & Chemical Properties

Appearance	Not available.
Color	Black.
Odor	Not available.
Odor threshold	Not available.
Physical state	Liquid
Form	Not available.
pH	7.8
Melting point	Not available.
Freezing point	Not available.
Boiling point	200 °F (93.3 °C)
Flash point	131 °F (55 °C) Pinsky-Martens Closed Cup; No ignition, sustained combustion or flashing detected using the Sustained Combustibility Test (method in US 49CFR173, Appendix H).
Evaporation rate	Not determined
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not determined
Vapor density	Not available.
Specific gravity	1
Relative density	Not available.
Solubility (water)	Soluble in water
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

Viscosity	2 cp
Bulk density	1 gm/ml
VOC	Not available.
Other information	For other VOC regulatory data/information see section 15.

## 10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Incompatible materials	Incompatible with strong bases and oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Possibility of hazardous reactions	Will not occur.

## 11. Toxicological Information

Carcinogenicity	Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint.	
ACGIH Carcinogens		
Carbon black (CAS 1333-86-4)	A3	Confirmed animal carcinogen with unknown relevance to humans.
Isopropyl Alcohol (CAS 67-63-0)	A4	Not classifiable as a human carcinogen.
IARC Monographs. Overall Evaluation of Carcinogenicity		
Carbon black (CAS 1333-86-4)	2B	Possibly carcinogenic to humans.
IARC Monographs: Evidence of carcinogenicity in humans		
Carbon black (CAS 1333-86-4)	Inadequate data.	
Serious eye damage/eye irritation	Not available.	
Symptoms and target organs		
Target Organs (NIOSH)		
Carbon black (CAS 1333-86-4)	Eyes	Respiratory system
Isopropyl Alcohol (CAS 67-63-0)	Eyes	Respiratory system
		Skin
Further information	Complete toxicity data are not available for this specific formulation. Refer to Section 2 for potential health effects and Section 4 for first aid measures.	

## 12. Ecological Information

Aquatic toxicity	LC50/96h/Fathead minnows =>750 mg/L
Persistence and degradability	Not available.
Partition coefficient	Not determined

## 13. Disposal Considerations

Disposal instructions	Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
	Sojet's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of Sojet original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit <a href="http://www.sojet-tech.com">http://www.sojet-tech.com</a> .

## 14. Transport Information

Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. No ignition, sustained combustion, or flashing detected, using the Sustained Combustibility Test prescribed in the UN Manual of Tests and Criteria, Part III subsection 32.5.2. Refer to Dangerous Goods Regulations Section 3.3.1.3. No ignition, sustained combustion or flashing detected using the sustained combustibility test (method in US CFR173, Appendix H).
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## DOT

Not regulated as dangerous goods.

## IATA

Not regulated as dangerous goods.

## IMDG

Not regulated as dangerous goods.

## RID

Not regulated as dangerous goods.

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**15. Regulatory Information**

US federal regulations US TSCA 12(b): Does not contain listed chemicals.

CERCLA (Superfund) reportable quantity

None

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 Yes  
hazardous chemical

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-pyrrolidone (CAS 616-45-5) Listed.  
Carbon black (CAS 1333-86-4) Listed.  
Isopropyl Alcohol (CAS 67-63-0) Listed.

Regulatory information

All chemical substances have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

Other information

Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments). Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments).

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**16. Other Information**

Other information

This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

HMIS® ratings

Health: 1  
Flammability: 2  
Physical hazard: 0

NFPA ratings

Health: 1  
Flammability: 2  
Instability: 0

**Disclaimer** This Safety Data Sheet document is provided without charge to customers of Sojet Company. Data is the most current known to Sojet Company at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

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**This data sheet contains changes from the previous version in section(s):** Product and Company Identification: Alternate Trade Names

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**Explanation of abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds