

2600 WATER BASE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): SI-60 Series Inks
Synonyms: SI-60-T, SI-60-P, SI-60-55, SI-61 Red, SI-62 Blue, SI-63 Green, SI-64, Violet, SI-65 Yellow, SI-66 Brown, SI-69 Orange
Material Uses: Industrial marking: Flush for printing processes.
Emergency Phone: 1.800.424.9300
Manufacturer: Squid

2. HAZARDS IDENTIFICATION

This product is intended for the use in Squid Ink Manufacturing, Inc. Inkjet Print Systems only. Any other use may impose additional hazards which have not been tested or accounted.

HAZARD Rating :		HMIS	NFPA
	Health	1	1
	Flammability	0	0
	Reactivity	0	0
	PPE	-	



- Emergency Overview** : This product is not expected to cause any harm.
- Routes of exposure** : Inhalation, skin absorption, skin contact, eye contact, ingestion.
- Acute Health Effects** : May cause eye irritation.
(Short Term) May cause mild skin irritation.
May be an inhalation hazard if mist, fume, or dust created.
- Symptoms** : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), or irritation (nose, throat, airways), lung irritation.
- Chronic Health Effects** : No data available on the chronic health effects of this material.
(Long Term)
- Carcinogenicity Information** : None of the components of this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

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3. COMPOSITION INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Registry No.</u>	<u>% Range</u>
Ethylene Glycol Monobutyl Ether	111-76-2	1-10%
Alkanolamine	NJTS# 254504001-5144	<5%

Ingredients not precisely identified are not considered hazardous per Annex I of EU67/548/EC. This material conforms to criteria specified in 29 CFR 1910.1200.

4. FIRST-AID MEASURES

- Eye Contact** : Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.
- Ingestion** : Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible do not leave individual unattended.
- Inhalation** : Move person to non-contaminated air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Skin Contact** : Immediately remove all contaminated clothing. Flush with large amounts of water and wash with mild soap. If adverse effects persist, get medical attention. Launder clothing before reuse.
- To Physician** : Provide general supportive measures and treat symptomatically.

5. FIRE FIGHTING MEASURES

- Flash Point** : >200°F (>93°C)
- Explosion Limits** : Lower : N/A
(% Volume in air) Upper : N/A
- Extinguishing Media** : This product is not expected to burn. Dry chemical, Alcohol-resistant foam, carbon dioxide (CO₂).
- Special Fire-fighting Procedures** : Although this material is not volatile and not expected to burn, never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).
- Unusual Fire and Explosion Hazards** : None expected.
- Flammable Class** : None.

6. ACCIDENTAL RELEASE , SPILL, LEAK PROCEDURES

- Spill/Release Procedures** : Always wear protective equipment during clean-up. Persons not wearing protective equipment should be excluded from area of spill until cleanup has been completed. Remove any sources of heat or ignition. Absorb with sand or other inert absorbent material. Shovel into sealable container for disposal. Clean

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residue with water and detergent. Do not flush residue into sewers discharging directly into domestic water systems or natural waterways.

7. HANDLING AND STORAGE

- Handling Procedures** : As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wear appropriate protective equipment when handling this material (see section 8 of MSDS). Always wash thoroughly after handling and before eating, drinking, or using tobacco products. Containers of this material may be hazardous when emptied. Static ignition hazard can result from handling and use.
- Storage Procedures** : Store in a cool (close to normal room temperature), dry, well-ventilated area. Keep container tightly closed and separate from incompatibles. Do not reuse containers. Unless specified elsewhere, shelf life is one year from the time of packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Note: All precautions are for room temperature handling. Use at elevated temperatures may require added precautions.

Exposure Limits : **Ethylene Glycol Monobutyl Ether CAS#111-76-2**

ACGIH	time weighted average:	20ppm
NIOSH	Recommended exposure limit (REL):	5ppm
NIOSH	Recommended exposure limit (REL):	24mg/m ³
OSHA Z1	Permissible exposure limit:	50ppm
OSHA Z1	Permissible exposure limit:	240mg/m ³

Alkanolamine NJTS# 254504001-5144

ACGIH	Time weighted average:	5mg/m ³
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- Respiratory Protection** : If workplace exposure limit(s) of product or any component is exceeded (see exposure limits) a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.
- Eye Protection** : Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.
- Skin Protection** : Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. This equipment should be cleaned thoroughly after each use.
- Engineering Controls** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).
- Other Hygienic Practices** : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of potential exposure.

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- Other Work Practices** : Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and thoroughly wash before reuse. Shower after work using plenty of soap and water.
- Comments** : These recommendations provide general guidance for handling this product. Personal protective equipment and controls should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations, occurrence of use, and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Colored Liquid.
Odor : Mild distinctive odor.
Boiling Point : 100°C (212°F)
Vapor Pressure : N/DA.
Vapor Density : N/DA.
pH : 4-10.
Freezing/Melting Point : 0°C (32.0°F).
Specific Gravity : 0.980 – 1.100 @ 20C.
% Volatile : 1-10%
Density : 8.0-8.4 lbs/gal.
Solubility in Water : Soluble.
Stability : Stable.
VOC : 0.584 lb/gal.

10. STABILITY AND REACTIVITY

- Chemical Stability** : Stable.
- Conditions to Avoid** : Avoid heat, open flame, and prolonged storage at elevated temperatures.
- Incompatibility** : Avoid contact with strong oxidizers, acids, and alkalis.
- Hazardous Decomposition** : The minor component at <1% could produce carbon dioxide, carbon monoxide, nitrogen oxides, and ammonia.
- Hazardous Polymerization** : Should not occur.

11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity** : Alkanolamine – LD50 Rat: 8,680 mg/kg
- Acute inhalation toxicity** : ND/A
- Acute dermal toxicity** : Alkanolamine – LD50 Rabbit: >20,000 mg/kg

12. ECOLOGICAL INFORMATION

- Aquatic toxicity** : Acute and Prolonged Toxicity to Fish: ND/A.

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Acute Toxicity to Aquatic Invertebrates: ND/A.

Environmental fate and pathways : ND/A.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods : It is the responsibility of the generator to determine at the time of disposal whether the product meets criteria of a hazardous waste. Comply with all applicable federal, state, and local regulations. Use registered transporters. Disposal options include land filling solids at permitted sites; fuel blending or incinerating liquids. Assure emissions comply with applicable regulations. Dilute aqueous waste may biodegrade; avoid overloading/poisoning plant biomass. Assure effluent complies with applicable regulations.

EU Waste Code : ND/A

14. TRANSPORT INFORMATION

US DOT : Not Regulated.

International : Air / Ground: Not Regulated.
Ocean: Not Regulated.

15. REGULATORY INFORMATION

TSCA Status : All components of this product are listed on the United States Environmental Protection Agency Toxic Substance Control Act (TSCA) inventory.

California Proposition 65 : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Clean Air Act - Ozone Depleting Substances (ODS) : This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS).

SARA Hazard Classification : Fire Hazard
Acute Health hazard

SARA Title III Section 313 Toxic Chemical List (TCL) : This product does contain a chemical for routine annual 'Toxic Chemical Release Reporting' under Section 313 (40 CFR 372):

-Ethylene Glycol Monobutyl Ether CAS#111-76-2

-Alkanolamine NJTS# 254504001-5144

Occupational Safety and Health ACT (OSHA) : This product does not contain a material whose components may contain a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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16. OTHER INFORMATION

- Key/Legend** : N/DA = No Data Available.
- Revision** : MSDSUSA/ANSI/EN/150000056506. Entered 7/25/09. Updated 2/1/14.
- Disclaimer** : This information contained is furnished without warranty of any kind, and is herein given in good faith. No warranty, expressed or implied, is made. Squid Ink Manufacturing, Inc. assumes no responsibility for personal injury or property damage to vendors, users, or third parties. While the information is believed to be reliable, we do not guarantee its accuracy. Purchasers are encouraged to make their own tests with materials described herein and must make independent determination of suitability and completeness of information from all sources to assure proper use with materials and compatibility with equipment.