

S A F E T Y D A T A S H E E T

SECTION I – PRODUCT & COMPANY IDENTIFICATION

Product Name	:	S1018,TH-18 Solvent
Recommended use	:	Industrial applications. Inks for continuous inkjet processes
Company	:	Inkminic Logo Technology (Guangzhou) CO., LTD Room 1601, No.4 Yichuang Street, Jilong Town, Huangpu District, Guangzhou City, Guangdong Province
Telephone number	:	+86 020-32954560
Website	:	www.inkminic.com
Emergency telephone number	:	+86 020-32954560

SECTION II – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS#	PERCENT RANGE (%)
Methyl Ethyl Ketone	78-93-3	60 - 100
Acetone	67-64-1	1 - 5

SECTION III - HAZARDS IDENTIFICATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS)

HEALTH	1	FLAMMABILITY	3	REACTIVITY	0	PERSONAL PROTECTION	B
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NOTICE: THESE RATINGS ARE FOR GENERAL RAPID INTERPRETATION. THE END-USER IS RESPONSIBLE FOR DETERMINING THE PROPER PROTECTIVE PROCEDURES.

EMERGENCY OVERVIEW **Warning! Flammable Liquid and Vapor.** Skin, Eye and Mucous Membrane Irritant. Do not use near fire or flame. May be fatal or cause blindness if swallowed. Avoid contact with skin, eyes and mucous membranes. If skin contact occurs, wash skin with mild soap and water. If splashed in eyes, flush with water. If inhaled, remove to fresh air. Read MSDS before using

EXPOSURE EFFECTS AND RELATED SYMPTOMS

METHYL ETHYL KETONE Minor embryotoxic/fetotoxic effects have been observed in laboratory rats exposed to methyl ethyl ketone by inhalation at levels greater than 1000 ppm (5 times the OSHA-PEL/TWA) for most of the gestation period. Methyl ethyl ketone may potentiate (shorten the time of onset) peripheral neuropathy, but methyl ethyl ketone, by itself, has not been shown to cause peripheral neuropathy.

ACETONE A skin and severe eye irritant. Experimental reproductive effects. Narcotic in high concentration.

RISK STATEMENTS

R11 Highly Flammable
R36/37/38 Irritating to eyes, respiratory system and skin
R66 Repeated exposure may cause skin dryness or cracking
R67 Inhalation of vapors can provoke sleepiness and dizziness

SAFETY STATEMENTS

S2 Keep away from children.
S7 Keep container tightly closed
S16 Keep away from sources of ignition - No Smoking!
S25 Avoid contact with eyes
S36/37 Wear suitable protective clothing and gloves
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

SECTION IV - FIRST AID MEASURES

ORAL INGESTION Do not induce vomiting unless directed to do so by medical personnel. Seek immediate medical attention.

EYE CONTACT Flush with water for 15 minutes and seek medical attention.

SKIN CONTACT Wash with soap and water. Wash contaminated clothing before reuse. Seek immediate medical attention.

INHALATION Remove to fresh air, if not breathing, give artificial respiration and seek medical attention.

SECTION V - FIREFIGHTING MEASURES

EXTINGUISHING MEDIA	Alcohol Resistant foam or dry chemical
HAZARDOUS COMBUSTION PRODUCTS	Carbon Monoxide, Carbon Dioxide
FIRE FIGHTING PROCEDURES	Wear self-contained breathing apparatus with full facepiece operated in the positive pressure demand mode.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Keep away all sources of ignition from spill. If spill is indoors, ventilate areas of spill and soak up the spill with absorbent material. Do not let spilled or leaking material enter watercourse.

SECTION VII - HANDLING AND STORAGE

HANDLING Avoid contact with eyes. Wash hands thoroughly with soap and water after handling. Utilize proper grounding with containers of material.
STORAGE Protect from freezing. Overheating may cause container to rupture. Covered storage in a cool, dry place out of direct sunlight is preferable. Keep container tightly sealed until ready for use. Store away from ignition sources.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION	If workplace exposure limit(s) of product or any other component is exceeded, a NIOSH/OSHA approved respirator is advised. (See your safety equipment supplier for specific details.)
VENTILATION	Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below PEL/ TLV.
PROTECTIVE GLOVES	Wear chemical resistant gloves. (Consult your safety equipment supplier.)
EYE PROTECTION	Wear chemical splash goggles in compliance with OSHA regulations. However, OSHA regulations also permit other types of safety glasses.
OTHER PROTECTIVE EQUIPMENT	Wear impervious clothing and boots to prevent prolonged exposure.

OCCUPATIONAL EXPOSURE LIMITS:

INGREDIENT	ACGIH TLV*	O _{SHA} PEL*
Methyl Ethyl Ketone	200	200
Acetone	750	750

SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
COLOR	Clear
ODOR	Solvent odor
BOILING RANGE	80° C
MELTING RANGE	- 86° C
SPECIFIC GRAVITY (WATER=1)	0.806
DENSITY (lbs / gal)	6.72
EVAPORATION RATE (N-BUTYL ACETATE=1)	~ 6
PERCENT VOLATILE BY VOLUME (%)	100%
VAPOR PRESSURE	85 mm of Hg @ 20° C
VAPOR DENSITY (AIR=1)	Greater than air
FLASH POINT (Tcc)	- 4° C
AUTO IGNITION TEMPERATURE	515° C
UPPER FLAMMABLE LIMIT (%BY VOL.)	11.5
LOWER FLAMMABLE LIMIT (%BY VOL.)	1.8
SOLUBILITY IN WATER	Miscible
SOLUBILITY IN ORGANIC SOLVENTS	Miscible
pH	Not Applicable

SECTION X - STABILITY & REACTIVITY

CONDITION OF INSTABILITY	None Known
CONDITIONS OF REACTIVITY	Not applicable
INCOMPATIBILITY	Strong oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon Monoxide, Carbon Dioxide
EXPLOSION DATA (SENSITIVE TO MECHANICAL IMPACT)	No
EXPLOSION DATA (SENSITIVE TO STATIC DISCHARGE)	Yes

SECTION XI - TOXICOLOGICAL INFORMATION

INGREDIENT	TOXICOLOGICAL INFORMATION **
Methyl Ethyl Ketone	LD ₅₀ Oral (rat) - 2737 mg / kg LC ₅₀ Inhalation (rat) - 23,500 mg / m ³ / 8 hr LD ₅₀ Intraperitoneal (rat) - 607 mg / kg LD ₅₀ Skin (rabbit) - 6480 mg / kg LD _{Lo} Intraperitoneal (guinea pig) - 2 g / kg
Acetone	LD ₅₀ Intravenous (rat) 5500 mg / kg LD ₅₀ Oral (rat) - 5800 mg / kg LC ₅₀ Inhalation (rat) - 50,000 mg / m ³ / 8 hr LD _{Lo} Oral (dog) 8 g / kg LD ₅₀ Oral (rabbit) - 5340 mg / kg LD ₅₀ Skin (rabbit) - 20 g / kg

SECTION XII - ECOLOGICAL INFORMATION

ECOTOXICITY	Not Available
PERSISTANCE / DEGRADABILITY	Not Available
HEAVY METALS	Concentration of lead, mercury, cadmium and hexavalent chromium [Cr(VI)] < 100 ppm No other ecological information is available for this product.

SECTION XIII - DISPOSAL CONSIDERATIONS

Absorb in vermiculite, floor absorbent or other non-combustible absorbent material and dispose in licensed facility. Observe all federal, state and local regulations.

SECTION XIV - TRANSPORT INFORMATION

DOT / TDG UN NUMBER & PROPER SHIPPING NAME	UN1210 PRINTING INK
DOT / TDG HAZARD CLASS	3
DOT / TDG LABEL	FLAMMABLE LIQUID
PACKING GROUP	II
EMERGENCY RESPONSE GUIDEBOOK NUMBER	129

SECTION XV - REGULATORY INFORMATION

TSCA	All chemicals used are listed on the TSCA Inventory.
CERCLA	The following product(s) is (are) listed by CERCLA: Methyl Ethyl Ketone (60 - 100%) Acetone (1 - 5%)
SARA 313	The following product(s) is (are) listed on SARA 313: Methyl Ethyl Ketone (60 - 100%)
California Prop 65	This product contains the following ingredients that the State of California has found to cause cancer, birth defects, or other reproductive harm, which requires a warning under the statute: Toluene (≤ 0.00002%)
International Regulations	The components of this product are listed on the chemical inventories of the following countries: Australia, Canada, Europe (EINECS), Japan, Korea, United Kingdom

SECTION XVI - OTHER INFORMATION

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REVISION NUMBER 1

SUPERCEDES n/a

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DISCLAIMER

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*NIOSH Publication #94-116

**Sax's Dangerous Properties of Industrial Mtls. 11th Ed.