Material Safety Data Sheet

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY NAME	Samsung Huetone., Co., Ltd.
COMPANY ADDRESS	63, 7BEON-GIL, HWANGGEUM 3-RO, YANGCHON-EUP, GIMPO-Si, GYEONGGI-DO, SOUTH KOREA Tel. +82-31-944-4494 Fax. +82-31-987-3362
PRODUCT NAME	Ink for screen printing
CHEMICAL DESCRIPTION	ABS SERIES
CHARACTERISTICS	High viscosity, mild odor
CREATION DATE	2023-02-13

SECTION 2 – HAZARDS IDENTIFICATION SUMMARY

IF IN EYES:	May cause eye irritation / inflammation
IF ON SKIN:	May cause skin irritation or inflammation
IF INHALED:	May cause dizziness. May cause headache if inhaled heavily.
IF SWALLOWED:	May cause vomit and paralysis
OTHER CHRONIC SYMPTOMS:	No officially reported symptoms

HAZARD COMMUNICATION SIGN(S):



Hazards

H224 – Extremely flammable liquid and vapour

H300 – Fatal if swallowed

H312 – Harmful in contact with skin

H331 – Toxic if inhaled

Preventions:

P102 – Keep out of reach of children

P201 – Obtain special instructions before use

P210 – Keep away from heat/sparks/open flames/ hot surface – No smoking

P260 – Do not breathe dust/fumes/gas/mist/vapours/spray

P262 – Do not get in eyes, on skin, or on clothing

P270 – Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P273 – Avoid release to the environment

P280 – Wear protective gloves/protective clothing/eye protection/face protection

Response:

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician

P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312 – Call a POISON CENTRE or doctor/physician if you feel unwell

Storage: P402+P233 – Store in a well-ventilated place. Keep container tightly closed

P410+P403 – Protect from sunlight. Store in a well-ventilated place

Disposal: P501 – All disposal practices must be in accordance with local, national and international regulations.

SECTION 3 – COMPOSITION, INFORMATION OF INGREDIENTS

INGREDIENT	CAS NO.	WEIGHT PERCENT
Solvent Naphtha, Heavy Aromatic	64742-94-5	5~10
Isophorone	78-59-1	5~10
Cyclohexanone	108-94-1	5~10
Di Acetone alcohol	123-42-2	1~5
Vinyl resin	9002-86-2	10~15
Acrylic resin	9003-01-4	10~15
Pigment	13463-67-7	35~40

SECTION 4 – FIRST AID MEASURES

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air, if person is not breathing, call 119 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

IN CASE OF FIRE: Use CO2/dry chemical or foam for extinction. Water can be used to cool and protect exposed material

ADDITIONAL INFORMATION: Note to physician: treat symptomatically

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use CO2, foam, dry chemical, dirt, sand, or water spray (Avoid inflammable materials)

FIRE AND EXPLOSION HAZARD: Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

FIRE FIGHTING INSTRUCTIONS: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff. Minimize use of water to prevent environmental contamination.

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full facepiece.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PROTECTIVE MEASURESAND EQUIPMENT:
Whenever possible, one must wear protective clothing which is resistant to all the potentially hazardous chemicals to which one may be exposed while performing a particular task. Avoid contact with skin, eyes or clothing. Eliminate all sources of heat, sparks, pilot lights, static electricity and open flames.

IN CASE OF SPILLS OR LEAKS: Clean up spills immediately. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

SMALL SPILL: Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

LARGE SPILL: Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container.

This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Minimize use of water to prevent environmental contamination

SECTION 7 – HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN!

HANDLING: Use only in a well-ventilated area. Minimize dust generation and accumulation. Stir well and test before using.

STORAGE: Keep container tightly closed, and store in a cool, well-ventilated place that is locked. Keep container closed when not in use. Keep away from food, feed and drinking water. Store in a well ventilated dry place away from heat.

Store above 32 F.

Wear proper safety equipment when mixing, loading or otherwise handling concentrate.

SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical Name	MOEL		ACGIH	
	TWA	STEL	TWA	STEL
Solvent Naphtha, Heavy Aromatic				
Isophorone	C5ppm			
Cyclohexanone	25ppm	50ppm		50ppm
Di Acetone alcohol	50ppm		50ppm	
Vinyl resin				
Acrylic resin				
Pigment	$10mg/m^3$		$10mg/m^3$	

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION - Safety goggles or glasses with side shields.

CLOTHING - Long-sleeved shirt and long pants, Chemical-resistant footwear plus socks

GLOVES - Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC), viton

RESPIRATOR – Not required when handled under normal conditions. When handling in enclosed areas with inadequate ventilation, use a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Odor: Moderate paint-like odor
pH: No data
Melting Point: No data
Flash point: 42~45°C
Boiling Point: 156
Fire Point: No data
Flammability Limits: No data
Vapor Pressure: No data
Vapor Density: No data
Density: No data
Solubility: No data
Partition Coefficient: No data

Auto-Ignition Temperature: No data
Decomposition Temperature: No data

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Material is normally stable at moderately elevated temperatures and pressures.
DECOMPOSITION TEMPERATURE : Not determined.
INCOMPATIBILITIES: Strong acids. Alkalis. Strong oxidizing agents. Halogens and halogenated compounds. Aluminum
POLYMERIZATION: Will not occur.
THERMAL DECOMPOSITION: Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Under combustion conditions, oxides of the following elements will form: phosphorus.
CONDITIONS TO AVOID: Do not expose to excessive heat, ignition sources, or oxidizing materials. Elevated temperatures. Exposure to air. Contact with strong oxidizers. Acids.

SECTION 11 – TOXOLOGICAL INFORMATION

Chemical Name	Oral LD50	Skin LD50	Inhalation LD50
Solvent Naphtha, Heavy Aromatic	5000mg/kg	2000mg/kg	0.59mg/ℓ
Isophorone	1500mg/kg	1200mg/kg	7mg/ℓ
Cyclohexanon	1890mg/kg	1000mg/kg	6.2mg/ℓ
Di Acetone alcohol	3002mg/kg	1875mg/kg	7.6mg/ℓ
Vinyl resin			-
Acrylic resin	2500mg/kg		
Pigment	5000mg/kg		3.43mg/ℓ

- No experimental data of the product available.
- Respiratory exposure to the solvents lead to coughing, headache, dizziness, sickness, vomiting and drowsiness.
- Long term exposure may lead to effects on the nervous system.

- Frequent or continuous skin contact may cause irritation and may lead to dermatitis.

SECTION 12 – ECOLOGICAL INFORMATION

No experimental data of the product available.

SECTION 13 – DISPOSAL CONSIDERATION

Do not contaminate water, food or feed by storage or disposal.

WASTE: Dispose of in accordance with applicable Federal, state and local laws and regulations.

RECOMMENDATION: Controlled incineration is recommended.

REFILL: Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Do not reuse this container for any other purpose.

SECTION 14 – TRANSPORT INFORMATION

1) UN NO.	1210
2) UN CLASS	3
3) PACKING GROUP	III
4) IMDG EMS Fire	F-E
5) IMDG EMS Spill	S-D

SECTION 15 – REGULATORY INFORMATION

Occupational Safety and Health Act: Clause 41

Toxic Chemicals Control Act: N/A

Safety Control of Dangerous Substances Act: Type 4, Type 2(Petroleum)

Enforcement Decree of the Wastes Control Act: Applicable to designated waste according to the Act

Other domestic or international regulations: No records

SECTION 16 – OTHER INFORMATION

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Samsung Huetone's knowledge. Samsung Huetone makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.