# **Material Safety Data Sheet**

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name
 Chemical description
 Solvent

3) Company identification SAMSUNG HUETONE CO., LTD.

63, 7BEON-GIL, HWANGGEUM 3-RO, YANGCHON-EUP,

GIMPO-Si, GYEONGGI-DO, KOREA

4) Telephone +82-31-944-4494 Fax +82-31-987-3362

5) Approval date: 2017-05-10

### 2. HAZARD IDENTIFICATION

Appearance Colorless
 Odor soft

3) Symbol(s)



4) Signal Word Warning

5) Hazard statement Flammable liquid and vapor.

May be harmful if swallowed.

May be harmful in contact with skin.

Causes eye irritation.

6) Other Hazards None identified.

7) Precaution(s) Avoid breathing dust / fume / gas / mist / spray. Keep away from heat /

sparks / open flames / hot surfaces. - No smoking. Wear protective

gloves / eye protection / face protection. Use explosion-proof electrical /

ventilating / lighting / equipment.

8) Response In case of fire: Use CO2, dry chemical or foam for extinction. Water can

be used to cool and protect exposed material.

IF ON SKIN: Rinse skin with water. Call a POISON CENTER or doctor if

you feel unwell. Remove immediately all contaminated clothing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical attention.

IF SWALLOWED: Call a poison center or doctor if exposed or you feel

unwell.

9) Storage Procedures Store in a well-ventilated place. Keep cool.

10) Disposal All disposal practices must be in accordance with local, national and

International regulations.

# 3. Composition/Information on Ingredients

Chemical Name	CAS NO.	Percentage (by wt)
XYLENE	1330-20-7	100

4. First Aid Measures				
1) Eyes	Immediately flush eyes with plenty of water for at least 15 minutes or			
	until chemical is removed. Remove contact lenses, if present and easy to			
	do. Immediately call a poison center or doctor.			
2) Skin	Immediately remove all contaminated clothing. Rinse skin with water /			
	shower. Call a poison center or doctor if you feel unwell. Launder			
	contaminated clothing before reuse and discard leather articles saturated			
	with the material.			
3) Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for			
	breathing. If breathing is labored, administer oxygen. If breathing has			
	stopped, apply artificial respiration. Call a poison center or doctor.			
4) Ingestion	DO NOT INDUCE VOMITING. Get immediate medical attention. Call a			
	poison center or doctor if exposed or you feel unwell.			
5) Advice for the protection of	When providing first aid always protect yourself against exposure to			
first-aid providers	chemicals or blood borne diseases by wearing gloves, masks and eye			
	protection. If providing CPR use mouthpieces, resuscitation bags, pocket			
	masks or other ventilation devices. After providing first aid wash your			
	exposed skin with soap and water.			
6) Additional Information	Note to physician: Treat symptomatically.			
E Et a Et lata Administration				
5. Fire Fighting Measures				
1) Flash Point (°C)	32			
2) Fire Point (°C)	463			
3) Explosion Limit, upper (vol %)	6.7			
4) Explosion limits, lower (vol %)	0.9			
5) Extinguishing Media	CO2, dry chemical, foam, water spray, water fog. Do not use water.			
6) Unsuitable Extinguishing Media	Not determined.			
7) Firefighting Procedures	Wear full protective fire gear including self-containing breathing apparatus			
	operated in the positive pressure mode with full face piece, coat, pants,			
	gloves and boots. Water may cause splattering. Use water to cool			

containers exposed to fire. Dilution of burning liquid with water will reduce intensity of flame. If possible, immediately isolate material from fire. Cool fire exposed containers with water after the fire is extinguished. For massive fire in a storage area, use an unmanned hose holder. Fogging is recommended. Spills of these organic liquids on hot fibrous insulations may lead to lowering of the auto ignition temperatures possibly resulting in spontaneous combustion. Do not release chemically contaminated water into drains, soil or surface water.

8) Unusual Fire & Explosion Hazards

Vigorous or explosive reaction may occur on heating or burning. Toxic fumes, gases or vapors may evolve on burning. Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Container may rupture on heating. Keep material away from from heat, sparks, pilot lights, static electricity and open flame. Vapors may form explosive mixtures with air. Spills of this material onto hot fibrous insulation may lower its auto ignition temperature and result in spontaneous combustion. Do not use compressed air to transfer this material. May explode when heated. Forms explosive mixtures in air. Prevent static discharge. DO NOT USE a solid stream of water. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead and zinc. See section 10 for additional information.

### 6. Fire Fighting Measures

- 1) Personal precaution, protective equipment and emergency procedures
- 2) Environmental precaution and protective procedures.
- 3) Methods for clean-up and removal

May form explosive mixtures with air. Immediately evacuate all personnel from danger area. Only trained personnel should be permitted in area. Personal protective equipment must be worn. Avoid contact with skin, eyes or clothing. Ventilate area if spilled in a confined space or other poorly ventilated area. Eliminate all sources of heat, sparks, pilot lights, static electricity and open flames.

Do not flush into surface water, sanitary sewer or ground water system

Use non-sparking tools. Pick up free liquid for recycle and/or disposal if can be accomplished safely with explosion proof equipment. Residual liquid can be absorbed on inert material. Small spills: contain spilled material. Transfer to secure containers. Where necessary collect using absorbent media. Larger spills: stop spill and dike area to prevent spreading, pump liquid to salvage tank. remaining liquid may be taken up on sand, clay, earth, floor absorbent or other absorbent material and shoveled into containers.

### 7. Accidental Release Measures

1) Personal precaution, protective equipment and emergency procedures

May form explosive mixtures with air. Immediately evacuate all personnel from danger area. Only trained personnel should be permitted in area. Personal protective equipment must be worn. Avoid contact with skin, eyes or clothing. Ventilate area if spilled in a confined space or other poorly ventilated area. Eliminate all sources of heat, sparks, pilot lights, static electricity and open flames.

2) Environmental precaution and protective procedures.

Do not flush into surface water, sanitary sewer or ground water system.

3) Methods for clean-up and removal

Use non-sparking tools. Pick up free liquid for recycle and/or disposal if can be accomplished safely with explosion proof equipment. Residual liquid can be absorbed on inert material. Small spills: contain spilled material. Transfer to secure containers. Where necessary collect using absorbent media. Larger spills: stop spill and dike area to prevent spreading, pump liquid to salvage tank. remaining liquid may be taken up on sand, clay, earth, floor absorbent or other absorbent material and shoveled into containers.

# 8. Handling and Storage

1) Pumping Temperature

Not determined.

2) Maximum Handling Temperature Ambient

3) Handling Procedures

Keep away from ignition sources such as heat, sparks and open flame. No smoking. Open container in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Avoid drinking, tasting, swallowing or ingesting this product. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Avoid breathing dust, fume, gas, mist, vapors or spray. Distillation residues should be handled with caution until shown to be peroxide-free. Ground / bond container and receiving equipment. Use grounding and bonding connection when transferring material to prevent static discharge, fire and explosion. Use spark-resistant tools. Minimize exposure to air. If peroxide formation is suspected, do not open or move container. Do not distill to near dryness. Use explosion-proof equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition. Dispose of packaging or containers in accordance with local, regional, national and international regulations

4) Maximum Storage Temperature

**Ambient** 

5) Storage Procedures

Isolated outside storage is preferred. Inside storage area should be in a

flammable liquids cabinet or storage area. Store in dry area, 0 - 100 deg F (-18 - 38 deg C). Store material in stainless steel or mild steel tanks. Do not store in aluminum, copper or copper alloys or galvanized steel. Possible peroxide former. Do not allow to evaporate to near dryness. Periodically test product stored for long periods for peroxide formation. Addition of water or appropriate reducing materials will lessen peroxide formation. Keep container tightly closed. Do not store in plastic. Do not store in open, unlabeled or mislabeled containers. Store in accordance with local, regional, national and international regulations. See section 10 for incompatible materials.

6) Maximum Loading Temperature A

**Ambient** 

### 9. Exposure Controls/Personal Protection

### 1) Exposure Limits

	NIOSH		OSHA		ACGIH	
Chemical Name	TWA	STEL	TWA	STEL	TWA	STEL
XYLENE	100ppm	150ppm	-	-	100PPM	150PPM
	435mg/m <sup>3</sup>	655mg/m <sup>3</sup>				
			-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

2) Other Exposure Limits None known.

3) Engineering Controls

Material should be handled in enclosed vessels and equipment, in which case general (mechanical) room ventilation should be sufficient. Local exhaust ventilation should be used at points where dust, mist, vapors or gases can escape into the room air. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits. Use explosion proof equipment.

4) Personal Protective Equipment

> filter cartridge if the recommended exposure limit is exceeded. Use self contained breathing apparatus for entry into confined space, for other

poorly ventilated areas and for large spill clean-up sites.

Eye Protection Safety glasses. If potential for splash or mist exists, wear chemical goggles or

face shield.

Gloves Procedures Natural Rubber. Polyvinyl chloride. Butyl rubber. Nitrile. Neoprene. Gloves

should always be inspected before each use and discarded if they show

tears, pinholes, or signs of wear.

Clothing Recommendation Long sleeve shirt is recommended. Wear a chemically protective apron when

contact with material may occur. Use nitrile rubber boots when necessary to

Wash thoroughly after handling th

# 10. Physical and Chemical Properties

1) Physical state / Appearance liquid 2) Odor soft 3) Viscosity no data 4) Boiling point/range(°C) 144 5) Melting point/range(°C) -25 6) Specific gravity 0.864 7) Vapor pressure (20°C) 0.7kPa 3.7 8) Vapor density 9) Solubility (in water) insoluble 10) pH no data

# 11. Stability and Reactivity

1) Stability Material is normally stable at moderately elevated temperatures and pressures.

2) Decomposition Temperature Not determined.

3) Incompatibility Strong acids. Alkalis. Strong oxidizing agents. Halogens and halogenated

compounds. Aluminum

4) Polymerization Will not occur.

5) Thermal Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of

incomplete combustion. Under combustion conditions, oxides of the

following elements will be formed: phosphorus.

6) Conditions to Avoid Do not expose to excessive heat, ignition sources, or oxidizing materials.

Elevated temperatures. Exposure to air. Contact with strong oxidizers. Acids.

# 12. Toxicological Information

Chemical Name	Oral LD50	Skin LD50	Inhalation LD50
XYLENE	3500mg/kg	4350mg/kg	6700ppm
	-	-	-
	-	-	-

- 2) No experimental data of the product available.
- 3) Respiratory exposure to the solvents lead to coughing, headache, dizziness, sickness, vomiting and drowiness.
- 4) Long term exposure may lead to effects of the nervous system.
- 5) Frequent or continuous skin contact causes irritation and may lead to dermatitis.

# 13. Ecological Information

No experimental data of the product available.

### 14. Disposal Considerations

- 1) Dispose of in a manner consistent with federal, state, and local regulations.
- 2) Controlled incineration is recommended.
- 3) Contaminated containers can be reused after cleaning.

# 15. Transport Information

UN NO. 1307
Packing Group III
IMDG EMS Fire F-E
IMDG EMS Spill S-D

### 16. Regulatory Information

1) Registered in

Chemical Name	EINECS	TSCA	AICS	DSL
XYLENE				
	-	-	-	

2) Keep container in a well-ventilated place. Keep away from sources of ignition. No smoking. Do not empty into drains. Take precautionary measures against static discharges.

# 17. OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if use with other product(s) or in any process. The information is to our best knowledge correct and complete and is given in good faith but without warranty. It remains the use's own responsibility to make sure that the information is appropriate and complete for his special use of this product.