



Safety Data Sheet


Rev. 4

Page 1 of 6

Section 1 - Product and Company Identification

Product name : Detergent
Other names : GDS-155
Product use : Stripping photoresist or removing photoresist residual used in TFT-LCD manufacturing processes .
Supplier's name : San Fu Chemical Co., Ltd.
Supplier's address : 340 Hsiao Hsin Li, Shan-Hua District, Tainan City, Taiwan, R.O.C.
Supplier's address : 1,Sec.1,Huanyuan E..Rd.,Liuying Dist.,Tainan, Taiwan 736.
Supplier's phone : 886-6-6231821 Emergency phone : 886-6-6231821
FAX. : 886-6-6231822

Section 2 - Hazards Identification

Classification : 1. Acute Toxicity Category 5 (oral) 2. Acute Toxicity Category 5 (skin) 3. Skin Corrosion/Irritation Category II 4. Serious Damage/Eye Irritation Category IIB
The Most Important Hazards and effect Label element : Exclamation Mark  ■ Hazard symbol : ■ Signal word : warning
Hazard statement : 1. toxic if swallowed (oral) 2. oxic if swallowed (skin) 3. Cause skin irritation 4. Cause eye irritation
Precautionary statement : 1. Workplace to prohibit the consumption of food 2. Avoid skin, eye contact 3. Wear suitable protective clothing, gloves, goggles / mask 4. In case of accident or feel unwell, immediately seek medical attention
Others Hazard : --

Section 3 - Composition/Information On Ingredients

Mixture :

Component or impurities contributing to the hazard	Concentration or concentration range (%)	CAS No.
Potassium hydroxide	≤ 5~10%	1310-58-3



Safety Data Sheet

Rev. 4

Page 2 of 6

Surfactant	$\leq 2\sim 6\%$	--
Water	$\leq 90\%$	7732-18-5

Section 4 - First Aid Measures

The First-aid Information :

- Inhalation :
 1. Move to fresh air.
 2. If not breathing, give Artificial respiration by qualified personnel. If respiration or pulse has stopped, have a trained person administer Basic Life Support (CPR), avoid mouth to mouth.
 3. Get medical attention immediately.
- Skin Contact :
 1. Avoid contact with this material. Wear the impermeable gloves if necessary.
 2. Immediately flush contaminated areas with water for at least 20 minutes.
 3. Remove contaminated clothing, shoes, and leather product.
 4. Clean thoroughly the contaminated clothing before reuse or discard.
 5. Discard the contaminated leather goods. Do not reuse.
 6. Get medical attention immediately.
- Eye Contact :
 1. Immediately flush eyes with water for at least 20 minutes. Forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues.
 2. Avoid contaminated unaffected area.
 3. Flush repeatedly if still feel the irritation.
 4. Get medical attention immediately.
- Ingestion :
 1. Get medical attention immediately.
 2. Never give anything by mouth to an unconscious or convulsive person.
 3. Rinse mouth thoroughly.
 4. If vomiting occurs spontaneously, make the patient lean forward, to avoid inhaling the vomitus.

The Most Important Symptoms and Hazardous Effects : Cause irritation and burns.

Protection of First-aiders :

1. Do not enter the hazard area if not wear the full protective gear.
2. First aid in safe zone.

Notes to a Physician : Processes and the support based on the symptom

Section 5 - Fire Fighting Measures

Extinguishing Media :

Alcohol foam, chemical powder, carbon dioxide, or water spray.
When fight with large fire, use foam or water spray.

Specific Hazards when Fire-fight : tiny

Specific Fire-fighting Procedure :

1. Move away the containers if safe.



Safety Data Sheet

Rev. 4

Page 3 of 6

2. Use water spray to cool fire-exposed containers.
3. Stay away from the ends of tanks.

Specific Protection of Firefighters :

As in any fire, wear a self-contained breathing apparatus in pressure demand, MSHA/NIOSH (approved or equivalent), anti-dust and anti-splash goggles, protective gloves.

Section 6 - Accidental Release Measures

Personal Precautions :

1. Restrict access to area until clean up.
2. Ensure clean up is conducted by trained personnel only.
3. Must wear proper personal protection equipment.

Environmental Precautions :

1. Well-ventilated the contaminated area.
2. Isolate from ignition sources.
3. Notify the occupational safety health unit or environmental protection unit.

Methods for Cleaning up :

1. Restrict access to area until clean up.
2. Ensure clean up is conducted by trained personnel only.
3. Well-ventilated the contaminated area.
4. Dry potassium hydroxide can be recycle or disposal.
5. After neutralized, flush away the micro-residue with water
6. Absorb with dry earth or sand. Dike if necessary.
7. Recycle or dilute with water, and then neutralize the residue carefully with a dilute solution of acetic acid or hydrochloric acid.
8. Prevent entry into sewers.

Section 7 - Handling and Storage

Handling :

1. Careful add water while mixing, avoid splashing.
2. This chemical is the alkalinity liquid; the staff should receive proper training and inform the risk and safety handling method.
3. Clearly label the container.
4. Use local exhaust ventilation and process enclosure if necessary, to control airborne dust and mist.
5. Use corrosion-resistant ventilation system; separate from other exhaust ventilation systems.

Storage :

1. Limited storage in the leak-proof containers.
2. Containers should be kept closed and plainly labeled.
3. Store in cool, ventilated place, and keep dry. Separate with other work area.
4. Stay away from any incompatible materials.
5. Consider use of anti-corrosion equipments, lighting, and ventilation system.
6. Label the container and keep the container closed while not in use.
7. Restrict access.
8. Separate from water, acids, and metals.

Section 8 - Exposure Controls & Personal Protection



Safety Data Sheet

Rev. 4

Page 4 of 6

Engineering measures : Use adequate general ventilation system			
Control parameters			
TWA	STEL	Ceiling	Biological standards
--	--	--	--
Personal protective equipment : <ul style="list-style-type: none"> ■ Respiratory Protection : Different respiratory systems depending on the expose concentration. ■ Hand Protection : Protective gloves ■ Eye Protection : chemical splash goggles/mask. Emergency shower should be available. Note: It is intended that these facilities provide a sufficient quantity or flow of water to quickly remove the substance from any body areas likely to be exposed. The actual determination of what constitutes an adequate quick drench facility depends on the specific circumstances. In certain instances, a deluge shower should be readily available, whereas in others, the availability of water from a sink or hose could be considered adequate ■ Skin and Body Protection : chemical protect suit. 			
Hygiene measures : <ol style="list-style-type: none"> 1. Remove contaminated clothes, clean thoroughly before reuse or disposal. Must advise the danger to the laundry worker. 2. Wash hand thoroughly after handling this substance. 3. Maintain a clean work environment. 			

Section 9 - Physical & Chemical Properties

Appearance : liquid	Odor : odorless Olfactory Threshold :
Color : white to yellow	Melting Point: --
pH value : >11	Boiling point/boiling range : 100°C
Flammability: --	Flash point : --
Decomposition temp : --	Test method : --
Auto ignition temp : --	Explosion properties : --
Vapor pressure : --	Vapor density : --
Density : 1.03±0.01 (水=1)	Solubility : soluble in water
log Kow : --	Evaporation Rate : --

Section 10 - Stability & Reactivity Data

Stability: The suggestion storage environment and under the exploitation conditions, this product is stable
Possible hazardous reactions under specific conditions : probably will not happen.
Conditions to avoid : High temperature, fire hazard.
Materials to avoid : acid, flammable materials, metal, deoxidizers, halocarbons, oxidizers, metal



Safety Data Sheet

Rev. 4

Page 5 of 6

salts
Hazardous decomposition products : When heated to decomposition it emits toxic fumes of K_2O .
Section 11 - Toxicological Information
Route of exposure : skin, inhalation, eye, ingestion
Symptoms : The headache, the vomit, the mucous membrane burn, the breath difficulty, the skin and the eye burn and so on
Immediate Toxicity : --
Specific effects : Regards the detection time and the density decides, repeatedly or exposes for a long time in the corrodent possibly causes the mouth department and the bronchial tube inflammation , a stomach barrier, the dermatitis and the conjunctivitis and so on.

Section 12 - Ecological Information

Ecotoxicology : <ul style="list-style-type: none">■ LC_{50}(fish) : --■ EC_{50}(Aquatic Invertebrates) : --■ Bioconcentration factor (BCF) : --
Persistence and degradability : <ul style="list-style-type: none">■ Half-Life (Air) : --■ Half-Life (Water surface) : --■ Half-Life (Groundwater) : --■ Half-Life (Soil) : --
Bioaccumulative potential : --
Mobility in soil : --
Other adverse effects : --

Section 13 - Disposal Considerations

Methods of disposal : <ol style="list-style-type: none">1. Recycle when possible or contact the manufacturer to conduct the recovery.2. Qualified places incineration or volatile residues.3. If possible, recycling containers, or qualified buried farm waste.
--

Section 14 - SDS Transport Information

UN classification number : UN1814
Proper D.O.T Shipping Name : POTASSIUM HYDROXIDE, SOLID
Hazard Class : 8
Packing Group : II
Marine pollution : Not applicable
Specific precautionary transport measures and conditions : --



Safety Data Sheet

Rev. 4

Page 6 of 6

Section 15 - Regulatory Information

Regulations :
1. Occupational Safety and Health Act
2. Regulations for the Labelling and Hazard Communication of Hazardous Chemicals
3. Road Traffic Safety Regulations
4. Industrial Waste Storage and Disposal Regulations
5. Assessment and Classification Administration of Hazardous Chemicals

Section 16 - Other Information

Literature references	1. RTECS Database, TOMES CPS CD-ROM, Vol.71, 2007	
	2. ChemWatch Database, 2007-1	
	3. OHS MSDS Databases, 2007	
	4. HSDB Database, TOMES CPS CO-ROM, Vol.71, 2007	
Prepared by	Supplier : San Fu Chemical Co., Ltd.	
	Address : 1,Sec.1,Huanyuan E..Rd.,Liuying Dist.,Tainan, Taiwan 736.	
	TEL : 886-6-6231821	FAX : 886-6-6231822
	Name : X.Z.Lin	
Issue date	Nov-30th 2023	Revision : 4
Re-revision date	Nov-29th 2026	
Remarks	Symbols Explanations: "--" No information is available at this time. "/" Not applicable to this substance.	
■ This information above has consulted national or international papers and manufacturer or supplier's provided information. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make their own determination of the suitability of the information for their particular purposes.		