

MATERIAL SAFETY DATA SHEET

January 15, 2013

1 Product

1-1 Trade Name SUPER IMAGE REMOVER	
1-2 Use * P.S. Metal Plates	1-3 Chemical Name

2 Company

2-1 Manufacturer * PACIFIC CHEMICAL CO., LTD. Tokyo, Japan	2-2 Supplier
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3 Ingredients

Substance Hazardous To Health And The Environment			
Substance	Proportion	Hazardous Property, TLY, LD50, etc	
Acetic butyl ester	30 %	CAS# 123-86-4	ACGIH 150 ppm
Dimethylformamide	30 %	CAS# 68-12-2	ACGIH 10 ppm
Ethanedioic acid	20 %	CAS# 144-62-7	ACGIH ppm
Water	5 %		
Polyoxyethylene sorbitan monooleate	15 %	CAS# 9005-65-6	

4 Chemical and Physical Property

4-1 Physical State * Liquid		4-2 Color, odor, etc * Transparency * Fragrance	
4-3 Percent Volatile 85 %		4-4 Solubility In Water(at20°C) 60 %	
4-5 Boiling Point 126°C	4-6 Melting Point or Freezing Point -1 °c		4-7 Viscosity(at 20°C) 2 cps
4-8 Specific Gravity 0.9	4-9 PH 4	4-10 Temperature as Use * Normal Temperature	
4-11 Vapor Pressure (at20°C) 10 mmHg	4-12 Vapor Density(air-1) 2.5	4-13 Evaporation Rate(But 1.2 -Ac-1)	

5 Fire and Explosion Hazard Data

5-1 Flash point: None	°c (Method)	5-2 Ignition Temperature: 421 °c	°c
5-3 Flammable Limit: Lower Limit: 1.7 %	% by vol	Upper Limit 7.6 %	%
5-4 Extinguishing Media * Carbon dioxide			

5-5 Extinguish method
* Fire extinguisher

Super Image Remover P 2

6 Health Hazard Data

6-1 Hazardous health and Acute Toxicity or Chronic Toxicity
* This pen contains industrial chemicals, avoid skin contact.

6-2 Effect of Overexposure and Emergency Procedure
Eye contact * In case of being contacted the skin, wash thoroughly
Skin contact with soap and water, liquid extremely irritating to
Mucous membranes eye, flush with plenty of water and seek medical help.

6-3 If swallowed and emergency procedure
* Vomits and seek medical help.
Antidote
* A solution of salt

7 Environmental hazards

* Use in well ventilated area and keep from heat and open flame.

8 Spill or leak procedures

8-1 Destruction and disposal methods
* To be obliged to disposal, state and federal regulations.

8-2 Neutralizing media
* Water

9 Special protection information

9-1 Ventilation
* Use in well ventilated area and keep from heat and open flame.

10 Storage, handling and labeling

10-1 Storage precaution
* Keep from heat and open flame, strong oxidants and small children directions.

10-2 Storage temperature
25°C

10-3 Handling precaution
* Keep from heat and open flame and small children directions.
* Do not open a back plug of the pen.
* In case of skin contact, flush with plenty of water.

10-4 Precautionary labeling
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