

Material Safety Data Sheet

1 Product

1-1 Trade Name B I O I M A G E R P E N	
1-2 Use * X-ray film	1-3 Chemical Name

2 Company

2-1 Manufacturer * DAIDO SANGYO 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		
		CASNo.	UNNo.	ACGIH
Ethyl alcohol	36 %	64-7-5	1170	1000 ppm
Storage glimmer	64 %			

4 Chemical and Physical Property

4-1 Physical State * liquid	4-2 Color, odor, etc * transparency * fragrance			
4-3 Percent Volatile 36 %	4-4 Solubility In Water(at20.c) 100 %			
4-5 Boiling Point 78 .c	4-6 Melting Point or Freezing Point -117 .c		4-7 Viscosity(at 20.c) 10 cps	
4-8 Specific Gravity 0.79	4-9 PH 7		4-10 Temperature as Use * Normal Temperature	
4-11 Vapor Pressure (at20.c) mmHg	4-12 Vapor Density(air-1) 1.59		4-13 Evaporation Rate(But -Ac-1)	

5 Fire and Explosion Hazard Data

5-1 Flash point: 12 °C	5-2 Ignition Temperature: 422 °C
5-3 Flammable Limit: % by vol. Lower Limit: 3.3 % Upper Limit 19 %	
5-4 Extinguishing Media * Carbon dioxideity	
5-5 Extinguish method * Fire extinguisher	

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 with soap and water, liquid extremely irritating to eye, flush with plenty of water and seek medical help.
Skin contact	
Mucousmembranes	
6-3 If swallowed and emergency procedure	
* Vomits and seek medical help.	
Antidote	
* A solution of salt	

7 Environmental hazard

* Use in well ventilated area and keep from heat and open flame.
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8 Spil or leak procedure

8-1 Destruction and disposal methods	8-2 Neutralizing media
* To be obliged to disposal, state and federal regulations.	* Alcohol

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	10-3 Storage temperature
* Keep from heat and open flame strong oxidants and small children directions.	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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3 Ingredients

Substance Hazardous To Health And The Environment				
Substance	Proportion	Hazardous Property, TLY, LD50, etc		
		CASNo	UNNo	ACGIH
Sodium iodate	30 %	7681-55-2		ppm
Water	70 %			

4 Chemical and Physical Property

4-1 Physical State * liquid	4-2 Color, odor, etc * transparency * fragrance		
4-3 Percent Volatile 70 %	4-4 Solubility In Water(at20.c) 100 %		
4-5 Boiling Point 100 .c	4-6 Melting Point or Freezing Point -1 .c	4-7 Viscosity(at 20.c) 5 cps	
4-8 Specific Gravity 1	4-9 PH 6	4-10 Temperature as Use * Normal Temperature	
4-11 Vapor Pressure (at20.c) mmHg	4-12 Vapor Density(air-1)	4-13 Evaporation Rate(But -Ac-1)	

5 Fire and Explosion Hazard Data

5-1 Flash point: Incombustibility .c(Method)	5-2 Ignition Temperature: .c
5-3 Flammable Limit: % by vol. Lower Limit: % Upper Limit %	
5-4 Extinguishing Media * Incombustibility	
5-5 Extinguish method *	

6 Health Hazard Data

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* 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
Mucousmembranes	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 hazard

* Use in well ventilated area and keep from heat and open flame.
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8 Spil or leak procedure

8-1 Destruction and disposal methods	8-2 Neutralizing media
* To be obliged to disposal, state and federal regulations.	* Water

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

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10-1 Storage precaution	10-3 Storage temperature
* Keep from heat and open flame strong oxidants and small children directions.	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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