EC Safety Data Sheet

HD-N1 PLATE DEVELOPER 10 l

Date of issue / Reference 05.02.02 / J. Zauner
Replaces version of / Reference 14.03.01 / J. Zauner

1 Commercial product name and supplier

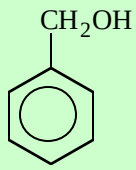
1.1	Commercial product name / designation	**HD-N1 PLATE DEVELOPER 10 l**
1.2	Application / use	Graphic Product (field: plate development)
1.3	Producer	Fuji Hunt Photographic Chemicals n.v., Europark Noord 21-22, B-9100 Sint Niklaas, Belgium (0032 376 00200)
1.4	Supplier	FUJI PHOTO FILM (UK) LTD, Fuji Film House; 125, Finchley Road, London NW3 6HY; Tel.: (0207) 5865900;
1.5	TOX emergency number	Technical Centre, Bedford: (01234) 373879; Please contact Local Hospital Accident & Emergency Department or GP who can contact the UK National Poisons Unit for advise.
1.6	BAG T No. (CH)	611500
1.7	Product No.	954834

2 Composition

2.1 Chemical characterisation

Aqueous solution containing organic and inorganic salts.

Active ingredient:
CAS No.: 100-51-6
benzyl alcohol



2.2 Components

Components contributing to hazard (88/379/EEC):

CAS Nr. : 100-51-6
EINECS: 2028599
3 - 7 % benzyl alcohol
Xn: Harmful. R20/22: Harmful by inhalation and if swallowed.

CAS Nr. : 25638-17-9
EINECS: 2471505
1 - 5 % sodium butylnaphthalenesulfonate
N/Ap

CAS Nr. : 102-71-6
EINECS: 2030498
0.5-1.5 % triethanolamine
N/Ap

2.3 Further information: None.

3 Hazards identification

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4	**First aid measures**	
4.1	Eye contact	Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.
4.2	Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing.
4.3	Ingestion	Consult a physician or transport to emergency facility immediately.
4.4	Inhalation	Remove to fresh air. Consult a physician.
4.5	Further information	Overexposure may lead to allergic skin reactions with sensitized people. In this case, seek medical advice.
5	**Fire-fighting measures**	
5.1	Suitable extinguishing media	Water. Water fog, carbon dioxide, foam, dry chemicals.
5.2	Extinguishing media to avoid	None under normal conditions.
5.3	Further information	Keep containers cool by spraying with water.
6	**Accidental release measures**	Wear adequate personal protective equipment, see Section 8 (Exposure Controls/Personal Protection) Spills should be contained by, and covered with suitable absorbent material and removed for disposal. Dispose of according to local and national regulations. Prevent from entering into soil, waterways and groundwater.
7	**Handling and storage**	
7.1	Handling	Avoid eye and skin contact. Wash thoroughly after handling. Wash hands and exposed skin before eating, drinking or smoking and after work. Use only in well ventilated area.
7.2	Industrial hygiene	Avoid eye and skin contact. Wear suitable protective clothing, gloves and eye/face protection. Follow normal industrial hygiene standards. Do not consume or store food in the work area.
7.3	Storage	Keep containers tightly closed. Store in a well ventilated, cool, dry area.
7.4	Fire- and explosion protection	Not combustible.

8 Exposure controls / personal protection

8.1	Technical equipment	Good general ventilation should be sufficient for most processing operations. Vent work area to ensure airbone concentrations are below the current occupational exposure limits. 10 or more room air changes per hour containing a minimum of 15% fresh air, will meet these requirements.
8.2	Control of threshold limits	None established.
8.3	**Personal protective equipment**	
8.3.1	Respiratory protection	No respiratory protection needed under normal conditions. Good general ventilation should be sufficient.
8.3.2	Hand protection	Neoprene or butyl rubber should be effective glove materials.
8.3.3	Eye protection	Use chemical safety goggles. Eye wash fountain should be located in immediate work area.
8.3.4	Other	Appropriate protective clothing.

9 Physical and chemical properties

9.1	Appearance	liquid		
9.2	Color	yellow to brown		
9.3	Odour	slight amine		
9.4	Change in physical state			
	Melting point	~ 0	°C	
	Boiling point	~ 100	°C	
9.5	Density	1.011	g/cm3 (20 °C)	
9.6	Vapour pressure	-----	mm Hg (21 ^{0}C)	
9.7	Viscosity	-----	cP	
9.8	Solubility in water	-----	g/l (20 °C)	
		completely soluble		
9.9	pH-value	10.9	(25 °C)	
		alkaline		
9.10	Flash point	-----	°C	
9.11	Ignition temperature	-----	°C	
9.12	Explosion limits	Lower: -----	vol.%	
		Upper: -----	vol.%	
	remark(s)	None.		
9.13	Further information	None.		

10 Stability and reactivity

10.1	Thermal decomposition	Is stable under normal storage conditions.

10.2	Hazardous decomposition products	In case of thermal decomposition poisonous and irritant gases/fumes can be released.
10.3	Hazardous reactions	With strong acids. With strong oxidisers.
10.4	Further information	Keep away from flammable materials, including chemicals.

11 Toxicological information

Product Information:

LD50, oral:	> 10000	mg/kg	Test Animal:	Rats
LD50, dermal:	N/Av		Test Animal:	N/Av

11.1 Acute Overexposure:

Primary Skin Irritation Index:	N/Av	N/Av
Primary Eye Irritation Index:	N/Av	N/Av

11.2 Further information: -

Ingredients information

CAS No.	Component	LD50 (mg/kg)	Test Animal:
100-51-6	benzyl alcohol	1230	Rats
25638-17-9	sodium butylnaphthalenesulfonate	1350	Rats
102-71-6	triethanolamine	8000	Rats

12 Ecological information

Ecotox Data:	N/Av
Chemical Fate Data:	N/Av

Ingredients information

CAS No.	Component	Fish Toxicity		Fish Organism
100-51-6	benzyl alcohol	LC50	N/Av	
25638-17-9	sodium butylnaphthalenesulfonate	LC50	N/Av	
102-71-6	triethanolamine	LC50	N/Av	

13 Disposal considerations

Dispose of according to local and national regulations.
Containers must be disposed of in accordance with local regulations.

13.1 EC-Waste Code	090102
13.2 Origin	Photographic Industry

14 Transport information

14.1	GGVE / GGVS	Class -----	Cipher -----			
	RID / ADR	Class -----	Cipher -----			
	UN-No.	-----				
	Tremcard	-----				
	Further information	Material not classified for transport at land (road, rail, barge).				
14.2	GGVSee	Class -----				
	ADNR	Class -----				
	UN-No.	-----				
	IMDG-code page	-----				
	EMS	-----				
	MFAG	-----				
	Packing group	-----				
	Further information	Material not classified for transport at sea.				
14.3	ICAO / IATA-GDR	----				
	UN-No.	-----				
	PSN	-----				
	Subsidiary risk	-----				
	Labels	-----				
	Packing group	-----				
	Passenger aircraft	Packing Instruction -----		max. -----		
	Cargo aircraft only	Packing Instruction -----		max. -----		
	Further information	Material not classified for air transport.				

15 Regulatory information

This product does not require classification according to the criteria of the EC and the "Gefahrstoffverordnung".

15.1	UN-No.	-----
15.2	Swiss toxicity class	frei/free/libre
15.3	EC-No.	-----
15.4	Hazard symbols	–
15.5	Hazard designation	-----
15.6	Risk phrases	**R:**
15.7	Safety phrases	**S: -**
15.8	TLV / MAK/...	No Occupational Exposure Limits have been

15.9	BVD classification	-----
15.10	VbF	-----
15.11	Further information	None.
16	**Other information**	The use of the preparation is restricted to professional users!

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

N/Av = Not available N/Ap = Not applicable