



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Material name CH135A
Product use Inkjet printing.
Synonym(s) ColorSpan 0901147-001
Chemical family Acrylate/Polymer/Pigment Blend
CAS # Mixture
Company identification HP Taiwan
9F Hsinyi Trading Center, No. 106, Sec.5
Hsin-Yi Rd., Hsin-Yi Dist.
Taipei, 110
Taiwan, R.O.C
Telephone (02)8722-9000

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-503-494-7199
HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomerinquiries@hp.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation	CAS number	% by weight	EU classification
Acrylic Acid, Monoalkyl, Alkylaryl Ester	3076-04-8	10-30	Xi, N; R36/37/38, 51/53
Acrylic Acid, Monoalkyl, Alkylaryl Ester Multifunctional Acrylate	84170-74-1	10-30	Xi; R36/38
Multifunctional Acrylate N-vinylcaprolactam	2235-00-9	10-30	Xn; R22, 36
N-vinylcaprolactam Substituted Phosphine Oxide	75980-60-8	1-5	Xn; R52/53, 62
Substituted Phosphine Oxide 2-Benzoyl-2-Dimethylamino-4-Morpholinobutyrophenone	119313-12-1	0-1	N; R50/53
2-Benzoyl-2-Dimethylamino-4-Morpholinobutyrophenone			

3. HAZARDS IDENTIFICATION

Classification (EU) Xi, R36/38, R52/53
Health hazards Irritating to eyes and skin.
Environmental hazards Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Physical hazards Not classified as a physical hazard.
Emergency Overview Causes severe irritation of eyes, skin and mucous membranes.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Acute health effects
Skin contact Avoid contact with skin.
Contact causes skin irritation.
Eye contact Irritating to eyes.
Inhalation Avoid breathing vapours or mists of this product. Inhalation of vapours or mists of the product may be irritating to the respiratory system.
Ingestion Ingestion is not expected to be a primary route of exposure for this product under normal use conditions. Harmful if swallowed.



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Potential health effects
Routes of exposure

Potential routes of exposure under normal use conditions are skin, eye contact and inhalation.

4. FIRST AID MEASURES

Inhalation	Move person to fresh air immediately. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Skin contact	In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash clothing separately before reuse. If irritation persists get medical attention.
Eye contact	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.
Ingestion	Rinse mouth out with water. Give several glasses of water. If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash point and method	> 95 °C (> 203 °F) closed cup;
Fire fighting equipment/instructions	Move containers from fire area if you can do it without risk. Avoid runoff into storm sewers and ditches which lead to waterways.
Suitable extinguishing media	Dry chemical, foam, carbon dioxide. Do not use water. Use water to cool fire-exposed containers and to protect personnel.
Extinguishing media which must not be used for safety reasons	Do not use a solid water stream as it may scatter and spread fire.
Unusual fire & explosion hazards	Burning may produce thick, irritating smoke.
Hazardous combustion products	Carbon monoxide and carbon dioxide.
Special protective equipment for fire-fighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Specific methods	Use a water spray to cool fully closed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid contact with skin Avoid inhalation of vapors or mists. Do not touch or walk through spilled material. Ensure adequate ventilation. Use personal protective equipment to minimize exposure to skin and eye. In the case of vapour formation use a respirator with an approved filter.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists of this product. Use with adequate ventilation. Wear personal protective equipment.
Storage	Keep containers tightly closed in a cool, well-ventilated place. Store away from strong oxidizers. Do not store near acids. Keep away from heat, sparks, and flame. Keep away from direct sunlight. Keep out of the reach of children.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection	Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.
Eye protection	Wear safety glasses; chemical goggles (if splashing is possible). Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Skin and body protection	Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.
Hygiene measures	Do not get this material in contact with skin. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Not available.
Physical state	Liquid.
Form	Liquid.
Color	Cyan
Odor	Characteristic.
Odour threshold	Not available.
pH	Not available.
Boiling point	> 100 °C (> 212 °F) (@ 760mmHg)
Flash point	> 95 °C (> 203 °F) closed cup;
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Relative density	Not available.
Solubility (water)	< 0.1 g/g
Partition coefficient (n-octanol/water)	Not available.
Viscosity	10 - 30 cP
Vapor density	> 1
Evaporation rate	< 0.05 BuAc
Melting point	Not available.
Freezing point	Not available.
Auto-ignition temperature	Not available.
Specific gravity	1.02 - 1.1
VOC	< 95 g/l

10. STABILITY AND REACTIVITY

Stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks. Exposure to sunlight.
Materials to avoid	Strong acids, alkalies and oxidizing agents.
Hazardous decomposition products	Carbon monoxide and carbon dioxide.
Hazardous polymerization	Hazardous polymerisation may occur.



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11. TOXICOLOGICAL INFORMATION

Chronic toxicity	Prolonged exposure causes local irritation of skin and mucous membranes, especially to the eyes.
Teratogenicity	None known.
Further information	Complete toxicity data are not available for this specific formulation.

12. ECOLOGICAL INFORMATION

Aquatic toxicity	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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13. DISPOSAL CONSIDERATIONS

Disposal instructions	Do not allow this material to drain into sewers/water supplies. Dispose of in compliance with federal, state, and local regulations.
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14. TRANSPORT INFORMATION

ADR

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

General	not regulated
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15. REGULATORY INFORMATION

16. OTHER INFORMATION

Manufacturer information	Hewlett-Packard 11311 K-Tel Drive Minnetonka, MN 55343 US Product Information 1-800-925-0563
List of relevant R phrases	R22 Harmful if swallowed. R36 Irritating to eyes. R36/37/38 Irritating to eyes, respiratory system and skin. R36/38 Irritating to eyes and skin. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R62 Possible risk of impaired fertility.
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Explanation of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-term exposure limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds