



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name CH138A
Use of the preparation Inkjet printing.
Version # 01
Revision date 03-09-2009
CAS # Mixture
Synonym(s) ColorSpan 0901147-004
Company identification Hewlett-Packard Company
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2. Hazards Identification

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 vapors or mists of this product. Inhalation of vapors 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.

Potential health effects

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

3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight
Acrylic Acid, Monoalkyl, Alkylaryl Ester	3076-04-8	10-30
Multifunctional Acrylate	84170-74-1	10-30
N-vinylcaprolactam	2235-00-9	10-30
Substituted Phosphine Oxide	75980-60-8	1-5
2-Benzoyl-2-Dimethylamino-4-Morpholinobutyrophenone	119313-12-1	0-1

4. First Aid Measures

First aid procedures

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.



MATERIAL SAFETY DATA SHEET

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.
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.
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	> 203 °F (> 95 °C) Closed Cup;
Hazardous combustion products	Carbon monoxide and carbon dioxide.
Flammable properties	Burning may produce thick, irritating smoke.
Extinguishing media	
Suitable extinguishing media	Dry chemical, foam, carbon dioxide. Do not use water. Use water to cool fire-exposed containers and to protect personnel.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Unusual fire and explosion hazard	Burning may produce thick, irritating smoke.
Protection of firefighters	
Protective equipment and precautions for firefighters	Move containers from fire area if you can do it without risk. Avoid runoff into storm sewers and ditches which lead to waterways.
Special firefighting procedures	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 vapor 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 vapors 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.

8. Exposure Controls / Personal Protection

Personal protective equipment	
Eye / face 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 protection	Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.
Respiratory protection	Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.



MATERIAL SAFETY DATA SHEET

General hygiene considerations

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 & Chemical Properties

Color	Black
Odor	Characteristic.
Odor threshold	Not available.
Physical state	Liquid.
Form	Liquid.
pH	Not available.
Melting point	Not available.
Freezing point	Not available.
Boiling point	> 212 °F (> 100 °C) (@ 760mmHg)
Flash point	> 203 °F (> 95 °C) Closed Cup;
Evaporation rate	< 0.05 BuAc
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.
Vapor density	> 1
Specific gravity	1.02 - 1.1
Relative density	Not available.
Solubility (water)	< 0.1 g/g
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
VOC	< 95 g/L
Viscosity	10 - 30 cP

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks. Exposure to sunlight.
Incompatible materials	Strong acids, alkalies and oxidizing agents.
Hazardous decomposition products	Carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Hazardous polymerization may occur.

11. Toxicological Information

Chronic toxicity	Prolonged exposure causes local irritation of skin and mucous membranes, especially to the eyes.
Teratogenicity	None known.



MATERIAL SAFETY DATA SHEET

12. Ecological Information

Aquatic toxicity	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Persistence and degradability	Not available.

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

IATA

Not regulated as dangerous goods.

General	not regulated
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15. Regulatory Information

US federal regulations	This product is listed on the U.S. EPA TSCA Inventory. US TSCA 12(b): Contains 2,4-diethyl-9h-thioxanthen-9-one (CASRN 82799-44-8) and 4-methoxyphenol (CASRN 150-76-5), subject to export notification requirements. US TSCA 4(a): Contains 4-methoxyphenol (CASRN 150-76-5), subject of a test rule at 40 CFR Section 799.5115. TSCA Section 5(a)(2) Significant New Use Rules: This product contains 2,4-diethyl-9h-thioxanthen-9-one (CASRN 82799-44-8) which is subject to a Significant New Use Rule at 40 CFR Section 721.9664.
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CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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Section 302 extremely hazardous substance	No
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Section 311 hazardous chemical	Yes
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16. Other Information

HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 2 Personal protection: B
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NFPA ratings	Health: 2 Flammability: 1 Instability: 2
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Revision	1
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Disclaimer	This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.
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MSDS sections updated	15. Regulatory Information: US federal regulations
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MATERIAL SAFETY DATA SHEET

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

Manufacturer information

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