



SAFETY DATA SHEET

1. Identification of the chemical and information about the manufacturer or supplier

1.1 Identification of the chemical products

1.1.1 Technical name CH878Series

Other means of identification

Synonyms HP FB210 Specialty Flexible Black Scitex Ink

1.1.2 Recommended use of the chemical and restrictions on use

Recommended use Inkjet printing

Limitations on use None known.

1.2 Manufacturer/Importer/Supplier/Distributor information

1.2.1 Manufacturer

ZAO Hewlett-Packard A.O.
Highway Leningradskoe, House 16A, Building 3,
125171, Moscow

Telephone 7 495 797-3500

HP Inc. health effects line

(Toll-free within the US) 1-800-457-4209

(Direct) 1-760-710-0048

HP Inc. Customer Care Line

(Toll-free within the US) 1-800-474-6836

(Direct) 1-208-323-2551

Email: hpcustomer.inquiries@hp.com

2. Hazard(s) identification

2.1. Hazard identification of chemical product as a whole (classification according to GOST 12.1.007-76 and GHS)

Classification according to GOST 12.1.007-76 Not available.

GHS classification

Physical hazards Not classified.

Health hazards
Serious eye damage/eye irritation Category 2A
Reproductive toxicity Category 1B
Specific target organ toxicity, repeated exposure Category 1

Environmental hazards Hazardous to the aquatic environment, long-term hazard Category 2

2.2 Labeling elements in compliance with GOST 31340-2013

2.2.1 Signal word Danger



2.2.3 Hazard statement

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H360FD May damage fertility. May damage the unborn child.
H372 Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P202 Do not handle until all safety precautions have been read and understood.

P201 Obtain special instructions before use.
P270 Do not eat, drink or smoke when using this product.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P308 + P313 IF exposed or concerned: Get medical attention/advice.
P314 Get medical attention/advice if you feel unwell.
P391 Collect spillage.
P363 Wash contaminated clothing before reuse.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

Diphenyl (2,4,6-trimethylbenzoyl) phosphineoxide - In animal testing, risk of impaired fertility was shown only after repeated ingestion of very high doses of this substance.

Supplemental information

None.

3. Composition/information on ingredients

3.1 Information on product as a whole

3.1.1 Chemical name (IUPAC) CH878Series

3.1.2 Chemical formula C11H12O3 (48145-04-6), C11H12O3 (48145-04-6), C8H13NO (2235-00-9), C8H13NO (2235-00-9), C25H32O12 (60506-81-2), C25H32O12 (60506-81-2), C22H21O2P (75980-60-8), C22H21O2P (75980-60-8), (C3H6O)_n(C3H6O)_nC11H16O4 (84170-74-1), (C3H6O)_n(C3H6O)_nC11H16O4 (84170-74-1), UVCB (1333-86-4), UVCB (1333-86-4), C15H21NO2S (71868-10-5), C15H21NO2S (71868-10-5)

3.1.3 General description of the composition (taking into account the brand assortment; preparation method) Not applicable.

3.2 Components

| Components | Concentration by weight (%) | Hygienic standards in the working area | | CAS-No. | EC No. |
|---|-----------------------------|--|-------------------------|-------------|-----------|
| | | MAC, mg/m ³ | TSEL, mg/m ³ | | |
| 2-phenoxyethyl acrylate | <40 | | | 48145-04-6 | 256-360-6 |
| 1-vinylhexahydro-2H-azepin-2-one | <25 | | | 2235-00-9 | 218-787-6 |
| 2-[[[3-hydroxy-2,2-bis[[[(1-oxoallyl)oxy]methyl]propoxy]methyl]-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propandiyl diacrylat | <20 | | | 60506-81-2 | 262-270-8 |
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine | <7.5 | | | 75980-60-8 | 278-355-8 |
| Polyether acrylate | <7.5 | | | Proprietary | - |
| Propoxylated Neopentyl Glycol Diacrylate | <5 | | | 84170-74-1 | - |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | <2.5 | | | 71868-10-5 | 400-600-6 |

| Components | Hygienic standards in the working area | | | CAS-No. | EC No. |
|--------------|--|------------------------|-------------------------|-----------|-----------|
| | Concentration by weight (%) | MAC, mg/m ³ | TSEL, mg/m ³ | | |
| Carbon black | <2.5 | | | 1333-86-4 | 215-609-9 |

Composition comments Carbon black is present only in a bound form in this preparation.

4. First-aid measures

4.1. Observed symptoms

- 4.1.1 In case of exposure via inhalation Inhalation may result in mild irritation to the respiratory system.
- 4.1.2 In contact with skin May cause sensitization by skin contact.
- 4.1.3 In contact with eyes Causes serious eye irritation.
- 4.1.4 In case of exposure via ingestion Ingestion is not a likely route of exposure.

4.2 First-aid measures to be provided to victims

- 4.2.1 In case of exposure via inhalation Move to fresh air. If symptoms persist, get medical attention.
- 4.2.2 In contact with skin Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
- 4.2.3 In contact with eyes Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.
- 4.2.4 In case of exposure via ingestion If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person.
- 4.2.5 Contraindications Not available.

5. Fire-fighting and explosion safety measures and means

- 5.1 General characteristics of fire-explosion properties Not available.
- 5.2 Fire-explosion indicators Not available.
- 5.3 Combustion and/or thermal destruction products and hazards arising from these Not available.
- 5.4 Recommended extinguishing media Dry powder. Carbon dioxide (CO₂). Water may be ineffective.
- 5.5 Forbidden extinguishing media Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire.
- 5.6 Special protective equipment for firefighters Not available.
- 5.7 Specific extinguishing methods Not available.
- Special fire fighting procedures Avoid runoff into storm sewers and ditches which lead to waterways.

6. Accident and emergency prevention and response measures and their consequences

6.1 Measures to prevent harmful effects on people, environment, buildings, constructions, etc. in case of accidents and emergencies

- 6.1.1 General required actions in case of an accident or emergency Wear appropriate personal protective equipment. Do not touch or walk through spilled material.
- 6.1.2 Personal protection equipment in case of the accident Not available.

6.2 Procedures for the elimination of accidents and emergencies

- 6.2.1 Procedures in case of leaks, spills, splashes Soak up with inert absorbent material. Dispose of in compliance with federal, state, and local regulations.
- 6.2.2 Actions in case of fire Not available.

Environmental precautions Do not let product enter drains. Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.

7. Storage and handling requirements of chemicals during loading and unloading

7.1 Safety precautions when handling chemical products

- 7.1.1 **Technical safety measures** Not available.
- 7.1.2 **Environmental protection measures** Not available.
- 7.1.3 **Recommended safe handling and transportation advice** Avoid contact with skin, eyes and clothing.

7.2 Chemical storage requirements

- 7.2.1 **Terms and conditions for safe storage** Not available.
- 7.2.2 **Packaging** Not available.

7.3 Safety measures and storage requirements at domestic use

Do not handle or store near an open flame, heat or other sources of ignition. Keep away from excessive heat or cold. Do not store in direct sunlight. Opaque, high density polyethylene (HDPE) containers are recommended for shipping and storage.

8. Equipment for monitoring exposure and personal protective equipment

8.1 **Parameters of the working area that require monitoring** No exposure limits noted for ingredient(s).

8.2 **Measures to ensure the content of harmful substances in the working area below the exposure level concentration** Exposure limits have not been established for this product.

Appropriate engineering controls Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits.

8.3 Worker personal protective equipment

8.3.1 **General recommendations** Not available.

8.3.2 **Respiratory protection** Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

8.3.3 Protective equipment

Eye/face protection Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.

Hand protection Wear appropriate chemical resistant gloves. Recommended gloves: Nitrile 6 mil minimum thickness.

Other Wear appropriate chemical resistant clothing.

Thermal hazards Not available.

8.3.4 **Personal protection equipment in case of domestic use** Not applicable.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not get this material in your eyes, on your skin, or on your clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse. Keep away from food and drink.

9. Physical and chemical properties

9.1 Physical appearance

Physical state Liquid.

Form Liquid.

Color Black.

Odor Characteristic.

Odor threshold Not available.

9.2 Parameters characterizing basic properties of the product

pH Not applicable.

Melting point/freezing point Not determined.

Initial boiling point and boiling range Not determined.

Flash point > 212.0 °F (> 100.0 °C) Closed Cup EPA Method 1020

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Vapor pressure Not determined.

Viscosity Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Other data

Evaporation rate Not determined.

VOC < 95 g/L Method 24/ASTM D5409-93

10. Stability and reactivity

10.1 Chemical stability Stable under normal storage conditions.

Hazardous decomposition products Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

10.2 Reactivity Not available.

10.3 Conditions to avoid Exposure to sunlight.

Possibility of hazardous reactions Hazardous polymerization can occur with decreased inhibitor content.

Incompatible materials Incompatible with strong bases and oxidizing agents. alkaline metals.

11. Toxicological information

11.1 General exposure characteristics Not available.

11.2 Routes of exposure Not available.

11.3 Affected/target organs, tissues and systems of humans

Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure.

11.4 Information on health hazards in case of direct exposure to the product and its effect

Effect on upper respiratory tract irritation Not available.

Respiratory or skin sensitization

Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.

Not listed.

Respiratory sensitization Based on available data, the classification criteria are not met.

Skin sensitization May cause sensitization by skin contact.

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Causes serious eye irritation.

Aspiration hazard Based on available data, the classification criteria are not met.

11.5 Information on long-term hazardous health effects

Carcinogenicity Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4)

2B Possibly carcinogenic to humans.

Reproductive toxicity May damage fertility. May damage the unborn child.

Mutagenicity Based on available data, the classification criteria are not met.

Cumulativeness Not available.

Chronic effects Not available.

11.6 Acute toxicity data Based on available data, the classification criteria are not met.

| Components | Species | Test Results |
|------------------------------|--|---------------|
| Carbon black (CAS 1333-86-4) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | > 10000 mg/kg |
| Further information | Complete toxicity data are not available for this specific formulation | |

12. Environmental impact information

| | |
|---|--|
| Aquatic toxicity | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. This product has not been tested for ecological effects. |
| 12.1 General description of the impact on the environment | Not available. |
| 12.2 Routes of exposure to environment | Not available. |
| 12.3 The most important characteristics of the environmental impact | |
| 12.3.1 Hygienic standards | Not available. |
| 12.3.2 Ecotoxicity | No ecotoxicity data noted for the ingredient(s) |
| 12.3.3 Biomigration and transformation of the environment due to the biodegradation or other processes | |
| Persistence and degradability | Not available. |
| Bioaccumulative potential | Not available. |
| Mobility in soil | Not available. |
| Other adverse effects | Not available. |

13. Recommendations for waste (residues) disposal

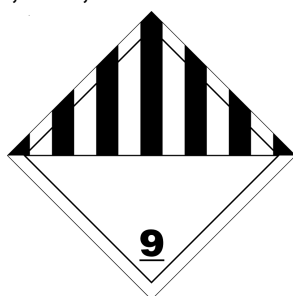
| | |
|---|--|
| 13.1 Safety precautions when handling the waste generated during use, storage, transportation | Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Ensure collection and disposal with an appropriately licensed waste contractor. |
| 13.2 Information on the location and disposal methods, recycling or disposal of product waste, including packaging | Not available. |
| 13.3 Recommendation on the waste disposal generated during its domestic use | Not available. |

14. Transport information

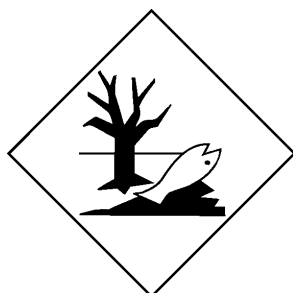
| | |
|--------------------------------------|---|
| DOT | Not regulated as dangerous goods. |
| DOT Supplemental Information | DOT Classification only applies to shipments within the US and Puerto Rico. |
| IATA | |
| UN number | UN3082 |
| UN proper shipping name | Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates, Propiophenone derivative) |
| Transport hazard class(es) | |
| Class | 9 |
| Subsidiary risk | - |
| Packing group | III |
| Environmental hazards | Yes |
| Special precautions for user | Not available. |
| IATA Supplemental Information | When shipping ≤ 5L inner packaging, Special Provision A197 may apply. |
| IMDG | |
| UN number | UN3082 |
| UN proper shipping name | Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates, Propiophenone derivative), MARINE POLLUTANT |
| Transport hazard class(es) | |
| Class | 9 |
| Subsidiary risk | - |
| Packing group | III |

| | |
|--------------------------------------|---|
| Transport hazard class(es) | |
| Marine pollutant | Yes |
| EmS | F-A, S-F |
| Special precautions for user | Not available. |
| IMDG Supplemental Information | When shipping ≤ 5L containers, IMDG 2.10.2.7 may apply. |
| ADR | |
| UN number | UN3082 |
| UN proper shipping name | Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates, Propiophenone derivative) |
| Transport hazard class(es) | |
| Class | 9 |
| Subsidiary risk | - |
| Hazard No. (ADR) | Not available. |
| Tunnel restriction code | Not available. |
| Packing group | III |
| Environmental hazards | Yes |
| Special precautions for user | Not available. |
| ADR Supplemental Information | When shipping ≤ 5L containers, ADR 375 may apply. |

ADR; IATA; IMDG



Marine pollutant



15. National and international regulatory information

15.1 National legislation

15.1.1 Laws of the Russian Federation Not available.

15.1.2 Information about the documentation, regulatory requirements for the protection of human health and environment

Sanitary-Epidemiological Rules, 1.2.2353-08, Chemical substances, mixtures and products which are carcinogenic factors, 21 April 2008

Not listed.

Hygiene Norm GN 2.2.5.1313-03. Executive No. 76 of 30 April 2003. Maximum allowable concentration (MAC) of harmful substances in the air of working zones, as amended.

Not listed.

15.2 International Conventions and Agreements

All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, South Korea, New Zealand, and China.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto protocol
Not applicable.
Basel Convention
Not applicable.

16. Other information

16.1 Information on revision of the SDS

| | |
|-----------------------------|--|
| Issue date | 04-Sep-2013 |
| Revision date | 09-Feb-2018 |
| Version # | 08 |
| Previous SDS number | Not applicable. |
| Revision information | Hazard(s) identification: 2.2.3 Hazard statement Hazard(s) identification: Prevention Hazard(s) identification: Response Composition / Information on Ingredients: Ingredients Equipment for monitoring exposure and personal protective equipment: Appropriate engineering controls Equipment for monitoring exposure and personal protective equipment: 8.2 Measures to ensure the content of harmful substances in the working area below the exposure level concentration Equipment for monitoring exposure and personal protective equipment: Hand protection Equipment for monitoring exposure and personal protective equipment: Other Physical & Chemical Properties: Multiple Properties Toxicological information: Carcinogenicity National and international regulatory information: 15.2 International Conventions and Agreements GHS: Classification |

16.2 List of references used in compiling the safety data sheet Not available.

Disclaimer

This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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.

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 |