



SAFETY DATA SHEET

1. Identification of the dangerous substance/preparation and the identity of the manufacturer, importer, agent or marketer

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Product name CH668 Series

Other means of identification
Synonym(s) HP XP222 Light Yellow Scitex Ink

Company identification HP Israel
8b Hazoran st.
4250608
Netanya
Israel

Telephone +972 9 7623222

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. Identification of the components of the substance/preparation

| Substance or Preparation | Preparation | | |
|---|-------------|-------------|---------|
| Chemical name | Synonyms | CAS number | Percent |
| Acrylic acid ester | | Proprietary | <30 |
| Acrylic acid, Monoalkyl Ester | | Proprietary | <25 |
| Polyether acrylate | | Proprietary | <25 |
| Vinylcaprolactam | | Proprietary | <20 |
| Acrylate ester 5 | | Proprietary | <2.5 |
| Difunctional acrylic monomer | | Proprietary | <2.5 |
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide | | Proprietary | <2.5 |
| Propiophenone derivative | | Proprietary | <2.5 |
| Azo-nickel complex | | Proprietary | <1 |

3. Dangers of the dangerous substance/preparation


Classification T;R48/23, Xi;R36/37/38, R43, N;R51, R52/53

Physical hazards Not classified as a physical hazard.

Health hazards May impair fertility. May cause harm to the unborn child. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. Also toxic: danger of serious damage to health by prolonged exposure through inhalation.

Environmental hazards Toxic to aquatic organisms. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

GHS classification
Physical hazards Not classified.

| | | |
|---------------------------------|---|---|
| Health hazards | Skin corrosion/irritation Serious eye damage/eye irritation Sensitization, skin Reproductive toxicity (fertility, the unborn child) Specific target organ toxicity, single exposure Specific target organ toxicity, repeated exposure | Category 2 Category 2A Category 1 Category 1B Category 3 respiratory tract irritation Category 1 (liver, respiratory system) |
| Environmental hazards | Hazardous to the aquatic environment, long-term hazard | Category 2 |
| GHS label elements | | |
| Symbols |  | |
| Signal word | Danger | |
| Hazard statement | Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May damage fertility. May damage the unborn child. May cause respiratory irritation. Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. | |
| Precautionary statement | | |
| Prevention | Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid release to the environment. | |
| Response | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical attention/advice. Get medical attention/advice if you feel unwell. Collect spillage. Take off contaminated clothing and wash before reuse. | |
| Storage | Store locked up. | |
| Disposal | 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. | |
| Supplemental information | None. | |

4. First aid instructions

First aid measures for different exposure routes

| | |
|---|--|
| Inhalation | If dust from the material is inhaled, remove the affected person immediately to fresh air. Move to fresh air in case of accidental inhalation of vapors or decomposition products. If breathing is difficult, give oxygen. Oxygen or artificial respiration if needed. Consult a physician for specific advice. |
| Skin contact | Wash the skin immediately with soap and water. In case of contact with molten product, cool rapidly with water and seek immediate medical attention. Do not attempt to remove molten product from skin because skin will tear easily. |
| Eye contact | 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. |
| Ingestion | If swallowed, do NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person. |
| Main symptoms | No experiences of acute or chronic damages in humans have been made yet. |
| Personal protection for first-aid responders | Risk of skin burn caused by hot melt. Do not leave the victim unattended. Remove victim immediately from source of exposure. Victim to lie down in the recovery position, cover and keep him warm. |
| Notes to physician | Not available. |
| Special first aid equipment | Not available. |

5. Firefighting procedure

Extinguishing media

Suitable extinguishing media Dry powder. Carbon dioxide (CO₂). Water may be ineffective.

Extinguishing media which must not be used for safety reasons Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards during fire fighting Not available.

Special fire fighting procedures Avoid runoff into storm sewers and ditches which lead to waterways.

Protection of fire-fighters Avoid runoff into storm sewers and ditches which lead to waterways.

6. Safety precautions

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

Methods for cleaning up Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Other information Soak up with inert absorbent material. Dispose of in compliance with federal, state, and local regulations.

Personal precautions Wear appropriate personal protective equipment. Do not touch or walk through spilled material.

7. Handling and storage

Precautions for safe handling Avoid contact with skin, eyes and clothing.

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

8. Means of reducing exposure and personal protection

Engineering measures to reduce exposure Not available.

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines Exposure limits have not been established for this product.

Personal protective equipment

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

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

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

Skin and body protection Wear appropriate chemical resistant gloves.
Wear appropriate chemical resistant clothing.

Hygiene measures 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

Appearance

Physical state Liquid.

Form Liquid.

Color Light yellow.

Odor Characteristic.

pH 6.8 - 7.2 Metler Toledo pH Meter. Temperature 25°C

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Decomposition temperature Not available.

| | |
|---|--|
| Flash point | > 200.0 °F (> 93.3 °C) Closed Cup EPA Method 1020 |
| Flammability | Not available. |
| Auto-ignition temperature | Not available. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Oxidizing properties | Not available. |
| Vapor pressure | Not available. |
| Density | 1.00 g/cm3 |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Other information | |
| Viscosity | 13.5 - 14.5 cP Brookfield Viscometer (± 0.5) Temperature 45°C. Spindle # 18 (S18) RPM 100. Wait approx 10 min to take the reading. |
| VOC | 26.57 g/L Method 24/ASTM D403-93 |

10. Stability and reactivity

| | |
|---|---|
| Reactivity | Not available. |
| Chemical stability | Stable under normal storage conditions. |
| Conditions to avoid | Exposure to sunlight. |
| Possibility of hazardous reactions | Hazardous polymerization can occur with decreased inhibitor content. |
| Incompatibility | Incompatible with strong bases and oxidizing agents. alkaline metals |
| Hazardous decomposition products | Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. |
| Materials to avoid | Not available. |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|---|
| Inhalation | Inhalation may result in mild irritation to the respiratory system. |
| Skin contact | Causes skin irritation. May cause sensitization by skin contact. |
| Eye contact | Causes serious eye irritation. |
| Ingestion | Ingestion is not a likely route of exposure. |

Toxicological data Not available.

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

| Components | Species | Test Results |
|-------------------|----------------|---------------------|
| Vinylcaprolactam | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 1700 mg/kg |
| Inhalation | | |
| LC50 | Rat | > 1.6 mg/l |
| Oral | | |
| LD50 | Rat | 1114 mg/kg |

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

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

Skin sensitization May cause sensitization by skin contact.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

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

IARC Monographs. Overall Evaluation of Carcinogenicity

Azo-nickel complex (CAS Proprietary) 1 Carcinogenic to humans.

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

Specific target organ toxicity - single exposure May cause irritation to the respiratory system.

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

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

Chronic effects Not available.

Other information Complete toxicity data are not available for this specific formulation

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

12. Environmental 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.

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. This product has not been tested for ecological effects.

| Components | | Species | Test Results | |
|---|---|---------------------------------|--|--|
| Acrylic acid ester <i>Acute</i> | EC10 | Desmodesmus subcapitatus | 0.71 mg/l, 72 h (DIN 38412 L9) | |
| | EC50 | Desmodesmus subcapitatus | 4.44 mg/l, 72 h (DIN 38412 L9) | |
| | LC50 | Leuciscus idus | 10 mg/l, 96 h (DIN 38 412) | |
| | NOEC | Desmodesmus subcapitatus | 0.71 mg/l, 72 h (DIN 38412 L9) | |
| | Aquatic <i>Acute</i> Crustacea | EC50 | Daphnia magna | 1.21 mg/l, 48 h (Directive CE 79/831/CEE, Annex V, Part C) |
| Acrylic acid, Monoalkyl Ester <i>Acute</i> | ErC50 | Pseudokirchneriella subcapitata | > 0.274 µg/l, 72 h (OECD 201) | |
| | LC50 | Leuciscus idus | 460 mg/l, 96 h (DIN 38 412, part L 15, 1982) | |
| | NOEC | Leuciscus idus | 215 mg/l, 96 h (DIN 38 412, part L 15, 1982) | |
| | <i>Chronic</i> | LOEC | Daphnia magna | > 0.25 µg/l, 21 d (OECD 211) |
| | Aquatic <i>Chronic</i> Crustacea | NOEC | Daphnia magna | 0.25 µg/l, 21 d (OECD 211) |
| | Fish | LOEC | Danio rerio | > 1 µg/l, 36 d (OECD 210) |
| | Difunctional acrylic monomer <i>Acute</i> | EC10 | Pseudokirchneriella subcapitata | 2.3 mg/l, 72 h (OECD 201) |
| EC50 | | Pseudokirchneriella subcapitata | 11 mg/l, 72 h (OECD 201) | |

| Components | Species | Test Results | |
|---|----------------|---------------------------------|------------------------------|
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Daphnia Magna | 37 mg/l, 48 h (OECD 202) |
| Fish | LC50 | Danio rerio | 2.7 mg/l, 96 h (OECD 203) |
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide | | | |
| <i>Acute</i> | | | |
| | EC10 | Pseudokirchneriella subcapitata | 1.56 mg/l, 72 h (OECD 201) |
| | EC50 | Pseudokirchneriella subcapitata | > 2.01 mg/l, 72 h (OECD 201) |
| | LC50 | Cyprinus carpio | 1.4 mg/l, 96 h (OECD 203) |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Daphnia magna | 3.53 mg/l, 48 h (OECD 202) |
| Environmental effects | Not available. | | |
| Persistence and degradability | Not available. | | |
| Mobility in soil | Not available. | | |
| Other information | Not available. | | |

13. Dangerous substance disposal methods

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|--|--|
| Disposal instructions | 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. Dispose of in compliance with Israeli Ministry of the Environment and local regulations. |
| Waste from residues / unused products | Not available. |
| Contaminated packaging | Not available. |
| Special precautions | Not available. |

14. Transport information

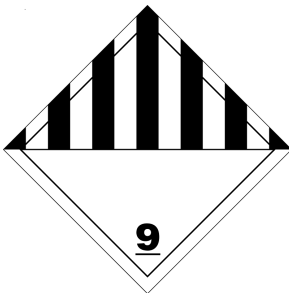
| | |
|--------------------------------------|---|
| DOT | Not regulated as dangerous goods. |
| DOT Supplemental Information | DOT Classification only applies to shipments within the US and Puerto Rico. |
| IATA | |
| UN number | UN3082 |
| UN proper shipping name | Environmentally Hazardous Substance, 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. Regulatory information

Israel regulations

Israel. Harmful Chemicals (Hazardous Substances Law, 5753-1993, Annex 1, as amended)

Not listed.

Israel. Toxic Chemicals (Hazardous Substances Law, 5753-1993, Annex 2, as amended)

Not listed.

Regulatory information

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, Japan, Philippines, South Korea, New Zealand, and China.

16. Other information

| | |
|---------------------------------|---|
| Training information | Follow training instructions when handling this material. |
| Recommended use | Not available. |
| Recommended restrictions | Not available. |
| Further information | Not available. |
| Bibliography | Not available. |

Disclaimer

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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 |