



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 CN872Series

Other means of identification
Synonym(s) HP XP231 Specialty Billboard Black Scitex Ink

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2. Identification of the components of the substance/preparation

Substance or Preparation	Preparation		
Chemical name	Synonyms	CAS number	Percent
Acrylate ester 5		Proprietary	<15
Acrylate ester 6		Proprietary	<20
Aliphatic diacrylate		Proprietary	<15
Amine modified polyetheracrylate		Proprietary	<15
Vinylcaprolactam		Proprietary	<15
Acrylic acid, Monoalkyl Ester		Proprietary	<10
Acrylate ester 2		Proprietary	<7.5
Substituted Phosphine Oxide		Proprietary	<7.5
Black pigment		Proprietary	<5
Amine synergist		Proprietary	<2.5
Oxybis(methyl-2,1-ethanediyl) diacrylate		Proprietary	<5
Thioxanthone derivative		Proprietary	<2.5

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

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 Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. 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	Category 2
Serious eye damage/eye irritation	Category 1
Sensitization, skin	Category 1
Reproductive toxicity (fertility, the unborn child)	Category 1B
Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
Specific target organ toxicity, repeated exposure	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. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May damage fertility. May damage the unborn child. 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. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. 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. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention/advice if you feel unwell. Collect spillage. Take off contaminated clothing and wash before reuse.

Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal

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

Other hazards

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.

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

Move to fresh air. If symptoms persist, get medical attention.

Skin contact

Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.

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 the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person.

Main symptoms

Not available.

Personal protection for first-aid responders

Not available.

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 Water may be ineffective. Do not use a solid water stream as it may scatter and spread 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 Not available.

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

Israel. OELs (Labor Inspection Regs. (Occup. & Bio. Monitoring of those Working with Hazardous Materials), Appendix 2, 1990, as amended)

Components	Type	Value	Form
Black pigment	TWA	3 mg/m ³	Inhalable fraction.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Black pigment	TWA	3 mg/m ³	Inhalable fraction.

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

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 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	Black.
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	> 212.0 °F (> 100.0 °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	14.5 - 15.5 cP Brookfield Viscometer (± 0.5) Temperature 55°C. Spindle # 18 (S18) RPM 100. Wait approx 10 min to take the reading.
VOC	9.04 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	May cause irritation to the respiratory system.
Skin contact	Causes skin irritation. May cause sensitization by skin contact.
Eye contact	Causes serious eye damage.
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
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Black pigment

Acute

Oral

LD50

Rat

> 10000 mg/kg

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	Non-corrosive (OECD 431) Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye damage.	
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.	
	Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation.	
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	

12. Environmental information

Aquatic toxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Ecotoxicity

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

Components	Species	Test Results
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	Daphina 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)
Substituted Phosphine Oxide		
<i>Acute</i>		
	EC50	Desmodesmus subspicatus > 260 µg/l, 72 h (OECD 201)

Components	Species	Test Results	
	LC50	Danio rerio	> 90 µg/l, 96 h (OECD 203)
	NOEC	Desmodesmus subspicatus	> 260 µg/l, 72 h (OECD 201)
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia magna	> 1175 µg/l, 48 h (OECD 202)
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	>= 8.1 µg/l, 21 d (OECD 211)
Environmental effects	Not available.		
Persistence and degradability	Not available.		
Mobility in soil	Not available.		
Other information	Not available.		

13. Dangerous substance disposal methods

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

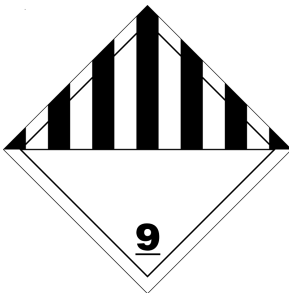
DOT	
UN number	Not available.
UN proper shipping name	Not Regulated
Transport hazard class(es)	
Class	Not available.
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	
Marine pollutant	No
Special precautions for user	Not available.
DOT Supplemental Information	DOT Classification only 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)
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), 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

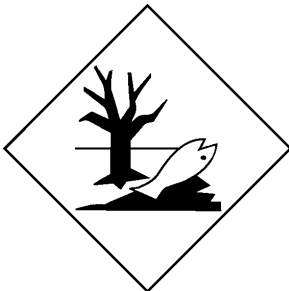
UN number	UN3082
UN proper shipping name	Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Hazard No. (ADR)	Not available.
Tunnel restriction code	Not available.
Packing group	III
Environmental hazards	Yes
Special precautions for user	Not available.

ADR Supplemental Information When shipping \leq 5L containers, ADR 375 may apply.

ADR; IATA; IMDG



Marine pollutant



Further information Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable.

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. European Union, Canada, Ontario, Japan, Philippines, 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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Revision information

1. Product and Company Identification: EU Poison Center
Composition / Information on Ingredients: Ingredients
9. Physical & Chemical Properties: Multiple Properties
14. Transport Information: Material Transportation Information
HazReg Data: Europe - EU

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