



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 4KK83Series

Other means of identification None.

1.1.2 Recommended use of the chemical and restrictions on use

Recommended use Thermal sublimation ink ribbon/film used solely with photo paper and HP Sprocket Studio printing device.

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 Not classified.

Environmental hazards Not classified.

2.2 Labeling elements in compliance with GOST 31340-2013

2.2.1 Signal word Warning



2.2.3 Hazard statement

H317 May cause an allergic skin reaction.

Precautionary statement

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage None known.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	None known.
GHS Supplemental information	Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions.

3. Composition/information on ingredients

3.1 Information on product as a whole

3.1.1 Chemical name (IUPAC)	4KK83Series
3.1.2 Chemical formula	C22H18N2O2 (6408-50-0), C21H18N4O2 (4702-90-3)
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		
1-(methylamino)-4-[(3-methylphenyl)amino]anthraquinone	<1			6408-50-0	229-059-2
4-[(1,5-dihydro-3-methyl-5-oxo-1-phenyl-4H-pyrazol-4-ylidene)methyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one	<0.1			4702-90-3	225-184-1

4. First-aid measures

4.1. Observed symptoms

4.1.1 In case of exposure via inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
4.1.2 In contact with skin	May cause sensitization by skin contact.
4.1.3 In contact with eyes	Contact with eyes may result in mild 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 into fresh air and keep at rest. If symptoms persist, get medical attention.
4.2.2 In contact with skin	Wash affected areas thoroughly with mild soap and water. If skin irritation or rash occurs: Get medical advice/attention. Remove contaminated clothing, including shoes, after flushing has begun.
4.2.3 In contact with eyes	Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. Make sure to remove any contact lenses from the eyes before rinsing. Do not rub eyes. If eye irritation persists: Get medical advice/attention.
4.2.4 In case of exposure via ingestion	Rinse mouth out with water. If ingestion of a large amount does occur, seek medical attention. If symptoms occur, consult a physician.
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	Irritating and/or toxic gases may be emitted upon the products decomposition.
5.4 Recommended extinguishing media	CO ₂ , water, dry chemical, or foam
5.5 Forbidden extinguishing media	None known.
5.6 Special protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.

5.7 Specific extinguishing methods	Not available.
Special fire fighting procedures	Move containers from fire area if you can do so without risk. Evacuate area and fight fire from a safe distance. 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	Avoid contact with skin Wear appropriate personal protective equipment.
6.1.2 Personal protection equipment in case of the accident	Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.

6.2 Procedures for the elimination of accidents and emergencies

6.2.1 Procedures in case of leaks, spills, splashes	Not available.
6.2.2 Actions in case of fire	Not available.

Methods and materials for containment and cleaning up Sweep up or gather material and place in appropriate container for disposal.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.
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	Avoid contact with eyes, skin, and clothing.
7.1.3 Recommended safe handling and transportation advice	Avoid contact with skin, eyes and clothing. Avoid ingestion. Avoid breathing dust or vapor. Wash hands after handling. Wear suitable protective clothing and gloves. Change work clothing daily if there is any possibility of contamination.

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 Keep out of the reach of children.
Keep away from excessive heat or cold.

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 Use in a well ventilated area.

8.3 Worker personal protective equipment

8.3.1 General recommendations	Use personal protective equipment to minimize exposure to skin and eye.
8.3.2 Respiratory protection	No personal respiratory protective equipment required under normal conditions of use.
8.3.3 Protective equipment	
Eye/face protection	Safety glasses with side-shields.
Hand protection	Wear protective gloves.
Other	Not available.
Thermal hazards	Not available.

8.3.4 Personal protection equipment in case of domestic use	Not applicable.
General hygiene considerations	Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using the product. Wash hands after handling. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

9.1 Physical appearance

Physical state	Solid.
Form	Not available.
Color	Film. Yellow, Cyan, Transparent and Magenta.
Odor	Not available.
Odor threshold	Not available.

9.2 Parameters characterizing basic properties of the product

pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
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 available.
Viscosity	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.

10. Stability and reactivity

10.1 Chemical stability	Stable under recommended storage conditions.
Hazardous decomposition products	Thermal decomposition can lead to release of irritating gases and vapors.
10.2 Reactivity	None known.
10.3 Conditions to avoid	None known.
Possibility of hazardous reactions	Will not occur.
Incompatible materials	None known.

11. Toxicological information

11.1 General exposure characteristics	Not available.
11.2 Routes of exposure	Potential routes of overexposure to this product are skin and eye contact Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions.
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	Based on available data, the classification criteria are not met.
11.4 Information on health hazards in case of direct exposure to the product and its effect	
Effect on upper respiratory tract irritation	Based on available data, the classification criteria are not met.

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 an allergic skin reaction.

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

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

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.

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

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
1-(methylamino)-4-[(3-methylphenyl)amino]anthraquinone (CAS 6408-50-0)		
Acute		
Oral		
<i>Liquid</i>		
LD50	Rat	> 2000 mg/kg
4-[(1,5-dihydro-3-methyl-5-oxo-1-phenyl-4H-pyrazol-4-ylidene)methyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one (CAS 4702-90-3)		
Acute		
Dermal		
LD50	Rat	> 2500 mg/kg
Inhalation		
<i>Dust</i>		
LC0	Rat	7.39 mg/l
Oral		
<i>Liquid</i>		
LD50	Rat	> 6400 mg/kg

12. Environmental impact information

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

Components	Species	Test Results
1-(methylamino)-4-[(3-methylphenyl)amino]anthraquinone (CAS 6408-50-0)		
<i>Acute</i>		
Other	EC50 Pseudokirchnerella subcapitata	> 100 % v/v, 72 h
Aquatic		
<i>Acute</i>		
Crustacea	EC50 Daphnia magna	> 100 % v/v, 48 h
4-[(1,5-dihydro-3-methyl-5-oxo-1-phenyl-4H-pyrazol-4-ylidene)methyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one (CAS 4702-90-3)		
<i>Acute</i>		
Other	EC50 Pseudokirchnerella subcapitata	> 1 mg/l, 72 h

Components	Species	Test Results
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Daphnia magna > 0.407 mg/l, 48 h
<i>Chronic</i>		
Fish	LC50	Danio rerio 22.7 mg/l, 96 h
12.3.3 Biomigration and transformation of the environment due to the biodegradation or other processes		
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	Complete toxicity data are not available for this specific formulation	
Bioconcentration factor (BCF)		
4-[(1,5-dihydro-3-methyl-5-oxo-1-phenyl-4H-pyrazol-4-ylidene)ethyl]-2,4-dihydro-5-methyl-2-phenyl-3H-pyrazol-3-one 703000 - 5572000 ml/kg		
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	Dispose of contents/container in accordance with local/regional/national/international regulations.
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	Dispose of as unused product.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

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, Japan, Philippines, 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 30-May-2019
Revision date 10-Jun-2019
Version # 03
Previous SDS number Not applicable.

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