



# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

<b>Important information</b>	*** This Safety Data Sheet is only authorised for use by HP for HP Original products. Any unauthorised use of this Safety Data Sheet is strictly prohibited and may result in legal action being taken by HP. ***	
<b>1.1. Product identifier</b>		
<b>Trade name or designation of the mixture</b>	HP Indigo Imaging Agent for use with HP Indigo Digital Press 3000 series, 4000 series and 5000 series Q4309A	
<b>Registration number</b>	-	
<b>Synonyms</b>	Part Number Q4309A	
<b>Issue date</b>	05-Jun-2014	
<b>Version number</b>	10	
<b>Revision date</b>	12-Nov-2019	
<b>Supersedes date</b>	27-Sep-2019	
<b>1.2. Relevant identified uses of the substance or mixture and uses advised against</b>		
<b>Identified uses</b>	HP product for use with HP Indigo Digital Presses 3000 series, 4000 series, 5000 series.	
<b>Uses advised against</b>	None known.	
<b>1.3. Details of the supplier of the safety data sheet</b>		
	HP Finland Oy Piispankalliontie 17, Pt. Ground Floor Espoo Finland FI-02200	
<b>Telephone</b>	+35 205 350	
<b>HP Inc. health effects line (Toll-free within the US) (Direct)</b>	1-800-457-4209 1-760-710-0048	
<b>HP Inc. Customer Care Line (Toll-free within the US) (Direct)</b>	1-800-474-6836 1-208-323-2551	
<b>Email:</b>	hpcustomer.inquiries@hp.com	
<b>1.4 Emergency telephone number</b>	+358 (0)9 471977	

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Aspiration hazard	Category 1	H304 - May be fatal if swallowed and enters airways.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Alkyd aryl sulfonate, Barium Sulfonate, Petroleum hydrocarbon

##### Hazard pictograms



**Signal word** Danger

## Hazard statements

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

## Precautionary statements

### Prevention

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P270	Do not eat, drink or smoke when using this product.

### Response

P301 + P310	If swallowed: Immediately call a poison center/doctor.
P301 + P330 + P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
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.
P332 + P313	If skin irritation occurs: Get medical advice/attention.

### Storage

P405	Store locked up.
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### Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Supplemental label information None.

2.3. Other hazards None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Petroleum hydrocarbon	<90	90622-58-5 920-901-0	01-2119456810-40-XXXX	-	
<b>Classification:</b>	Asp. Tox. 1;H304				
Barium Sulfonate	<10	61790-48-5 263-140-3	-	-	
<b>Classification:</b>	Acute Tox. 4;H302				
Alkyd aryl sulfonate	<5	26264-05-1 247-556-2	-	-	
<b>Classification:</b>	Skin Irrit. 2;H315, Eye Irrit. 2;H319				

## SECTION 4: First aid measures

General information Not available.

### 4.1. Description of first aid measures

<b>Inhalation</b>	If overcome by vapor, remove person from exposure to fresh air. If breathing is difficult, give oxygen. If symptoms persist, get medical attention.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. Immediately take off all contaminated clothing. Wash clothing separately before reuse. Get medical attention if irritation develops or persists.
<b>Eye contact</b>	Do not rub eyes. Flush eyes immediately with large amounts of water. If irritation persists get medical attention. Do not apply neutralizing agents.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. If ingestion of a large amount does occur, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed Not available.

**4.3. Indication of any immediate medical attention and special treatment needed** Not available.

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## SECTION 5: Firefighting measures

**General fire hazards** Not available.

**5.1. Extinguishing media**

**Suitable extinguishing media** Suitable extinguishing media: Dry chemical, CO2, water spray or regular foam.

**Unsuitable extinguishing media** None known.

**5.2. Special hazards arising from the substance or mixture** Refer to section 10.

**5.3. Advice for firefighters**

**Special protective equipment for firefighters** Not available.

**Special fire fighting procedures** Move containers from fire area if you can do it without risk. Evacuate area and fight fire from a safe distance.

**Specific methods** Move container from fire area if it can be done without risk. Evacuate area and fight fire from a safe distance.

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## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** Wear appropriate personal protective equipment.

**For emergency responders** Not available.

**6.2. Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**6.3. Methods and material for containment and cleaning up** In case of large spills, follow all facility emergency response procedures. Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.

**6.4. Reference to other sections** See Section 8 of the SDS for Personal Protective Equipment.

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## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Avoid prolonged or repeated skin contact with this material. Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition. Do not reuse the empty container. Take precautionary measures against static discharges.

**7.2. Conditions for safe storage, including any incompatibilities** Keep away from excessive heat or cold. Store in a cool and shaded area. Do not store in direct sunlight.

**7.3. Specific end use(s)** Not available.

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## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

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

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

**Recommended monitoring procedures** Not available.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**Exposure guidelines** Manufacturer recommended exposure limit based on petroleum hydrocarbon at > 80%. TWA = 171ppm (1200 mg/m3).

**8.2. Exposure controls**

**Appropriate engineering controls** Use in a well ventilated area.

**Individual protection measures, such as personal protective equipment**

**General information** Use personal protective equipment to minimize exposure to skin and eye.

<b>Eye/face protection</b>	Not available.
<b>Skin protection</b>	
- <b>Hand protection</b>	Not available.
- <b>Other</b>	Chemical resistant gloves.
<b>Respiratory protection</b>	Not available.
<b>Thermal hazards</b>	Not available.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment to minimize exposure to skin and eye.
<b>Environmental exposure controls</b>	Not available.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	clear liquid
<b>Physical state</b>	Liquid.
<b>Form</b>	Not available.
<b>Color</b>	Light yellow.
<b>Odor</b>	mild hydrocarbon-like
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	370.4 °F (188 °C) (based on petroleum hydrocarbon)
<b>Flash point</b>	147.2 °F (64.0 °C) Pinsky-Martens Closed Cup (based on Petroleum Hydrocarbon)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not applicable.

### 9.2. Other information

<b>Specific gravity</b>	0.8
<b>VOC</b>	655 g/L (5.47 lbs/gal. US) (Calculated)

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## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Not available.
<b>10.2. Chemical stability</b>	Stable under recommended storage conditions.
<b>10.3. Possibility of hazardous reactions</b>	Will not occur.
<b>10.4. Conditions to avoid</b>	Not available.
<b>10.5. Incompatible materials</b>	This product may react with strong oxidizing agents.
<b>10.6. Hazardous decomposition products</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

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## SECTION 11: Toxicological information

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

### Information on likely routes of exposure

**Inhalation** Under normal conditions of intended use, this material is not expected to be an inhalation hazard.  
**Skin contact** Contact with skin may result in mild irritation.  
**Eye contact** Contact with eyes may result in mild irritation.  
**Ingestion** Ingestion is not a likely route of exposure. Health injuries are not known or expected under normal use.

**Symptoms** Not available.

### 11.1. Information on toxicological effects

**Acute toxicity** Harmful if swallowed.

Components	Species	Test Results
Barium Sulfonate (CAS 61790-48-5)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	>= 2000 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory sensitization** Not classified.

**Skin sensitization** Not classified.

**Germ cell mutagenicity** Not classified.

**Carcinogenicity** Not classified.

**Reproductive toxicity** Not classified.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** May be harmful if swallowed and enters airways.

**Mixture versus substance information** Not available.

**Other information** This ink formulation has not been tested for toxicological effects.

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## SECTION 12: Ecological information

**12.1. Toxicity** Information given is based on data on the components and the ecotoxicology of similar products. This material is not expected to be harmful to aquatic life.

**12.2. Persistence and degradability** Expected to be ultimately biodegradable

**12.3. Bioaccumulative potential** Not available.

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

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** Not available.

**12.5. Results of PBT and vPvB assessment** Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects** Not available.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Residual waste** Not available.

**Contaminated packaging** Do not re-use empty containers.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

**EU waste code** 08 03 13 - waste ink other than those mentioned in 08 03 12

**Disposal methods/information** 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.

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## SECTION 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.

### IATA

**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** No.  
**Special precautions for user** Not available.

### IMDG

**UN number** Not available.  
**UN proper shipping name** Not Regulated.  
**Transport hazard class(es)**  
**Class** Not available.  
**Subsidiary risk** -  
**Packing group** Not available.  
**Transport hazard class(es)**  
**Marine pollutant** No.  
**EmS** Not available.  
**Special precautions for user** Not available.

### ADR

**UN number** Not available.  
**UN proper shipping name** Not Regulated.  
**Transport hazard class(es)**  
**Class** Not available.  
**Subsidiary risk** -  
**Hazard No. (ADR)** Not available.  
**Tunnel restriction code** Not available.  
**Packing group** Not available.  
**Environmental hazards** No.  
**Special precautions for user** Not available.

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

Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

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## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I**  
Not listed.

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II**  
Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**  
Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**  
Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA**  
Not listed.

#### Authorizations

**Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization**  
Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**  
Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**  
Not regulated.

#### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**  
Not listed.

#### Other regulations

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.

#### Other information

This Safety Data Sheet complies with the requirements of Regulation (EU) 2015/830. Classification according to Regulation (EC) No 1272/2008 as amended.

#### National regulations

Not available.

#### 15.2. Chemical safety assessment

See attached SUMI or GEIS document, if applicable.

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## SECTION 16: Other information

#### References

Regulation (EC) No. 1907/2006 of December 18, 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency (REACH).

Regulation (EU) 2015/830 of May 28, 2015 amending Regulation (EC) No. 1907/2006.

Regulation (EC) No. 1272/2008 of December 16, 2008 on classification, labeling and packaging of substances and mixtures, and amendments (CLP).

#### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### Full text of any H-statements not written out in full under Sections 2 to 15

H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

#### Revision information

Product and Company Identification: Synonyms  
SECTION 14: Transport information: Further information

#### Training information

Follow training instructions when handling this material.

#### 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

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds



# Safe Use of Mixture Information (SUMI)

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## Maintenance fluid digital printing: MF01 \*English\*

### Disclaimer

This SUMI is a generic document for communicating conditions of safe use of a product in response to the REACH obligation. This document relates only to conditions of safe use and is not specific to a product. By adding this SUMI to a specific product SDS, the importer/formulator declares that the mixture can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS.

The REACH registration number(s), where applicable, completes an extended product SDS.

### Operational conditions

<b>Maximum duration</b>	Up to 8 hours per day
<b>Frequency of exposure</b>	< 240 days per year
<b>Process conditions</b>	Covers use at ambient temperatures. Adequate ventilation should be provide for the areas where printing is performed. ANSI/ASHRAE Standard 62.1-2013 provides Keep emissions below the occupational exposure limits of the ingredients specified in section 8 of the SDS. Avoid direct contact. Regular cleaning of equipment and work area. Supervision in place to check that Risk Management Measures are in place are being correctly used and Operational Conditions follow

### Risk management measures

**Conditions and measures related to Personal Protection Equipment, hygiene and health evaluation**

Wear safety glasses with side shields (or goggles), if splashing is possible.  
Wear appropriate chemical resistant gloves: see section 8 of the SDS.  
Wear appropriate chemical resistant clothing.  
Eye wash fountain and emergency showers are recommended.  
Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.  
Avoid breathing mist/vapours.  
Avoid contact with skin, eyes and clothing.  
Training of workers in relation to proper use and maintenance of all Personal protection equipment (PPE) must be ensured.



### Good practice advice

Use personal protective equipment as required.  
Wash hands before breaks and after work.  
Keep good industrial hygiene and safety practice.  
Use only with adequate ventilation.  
Do no eat, drink or smoke when using this product.  
Wash contaminated clothing before reuse.  
Store at room temperature.



### Environmental measures

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 appropriately licenced waste contractor.

### Use descriptors

IS-Use at industrial sites  
PW-Widespread use by professional workers  
SU7-Printing and reproduction media  
PC35-Washing and cleaning products  
PROC8a-Transfer of substance or mixture (charging and discharging) at non-dedicated facilities  
PROC8b-Transfer of substance or mixture (charging and discharging) at dedicated facilities  
PROC11-Non-industrial spraying  
ERC4-Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

### Additional information on product composition

In section 2 of the SDS as well as on the label, the classification of the mixture is provided.  
The classification of the mixture is based on the individual ingredients and their concentration within the mixture.  
All ingredients contributing to the classification are stated in Section 3 of the SDS.  
Relevant limit values of ingredients on which the exposure assessment is based, are listed in section 8 of the SDS.  
The product may contain sensitizing ingredients that may cause allergic reaction to certain people.  
Section 2 of the SDS states these ingredients where applicable.