



SAFETY DATA SHEET

1. Chemical product and company identification

Product name HP Indigo Sapphire 5 Solution
Q4310A

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Recommended use and Limitations on use

Recommended use HP product for use with HP Indigo Digital Presses 2000, 4000.

2. Hazards identification

GHS classification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Hazardous to the aquatic environment, long-term hazard Category 3

Label elements

Pictogram None.

Signal word None.

Hazard statement Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Avoid release to the environment.

Response None.

Storage None.

Disposal None.

Other hazards None known.

Supplemental information None.

3. Composition / information on ingredients

Substance or mixture Mixture

Chemical property

Chemical name	CAS Number	Concentration (%)
Polyethyleneimine	mixture	<7.5

4. First aid measures

First aid measures for different exposure routes

Inhalation If overcome by vapor, remove person from exposure to fresh air. If breathing is difficult, give oxygen. If symptoms persist, get medical attention.

Skin contact 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.

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. Do not apply neutralizing agents.
Ingestion	Rinse mouth with water. Drink one to two glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. If ingestion of a large amount does occur, seek medical attention.
Most important symptoms and effects	Not available.
Personal protection for first-aid responders	Not available.
Notes to physician	Not available.

5. Fire-fighting measures

Extinguishing media	Suitable extinguishing media: Dry chemical, CO2, water spray or regular foam.
Extinguishing media to avoid	None known.
Specific hazards	None known.
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.
Protection of fire-fighters	Not specified.

6. Accidental release measures

Personal precautions	Wear appropriate personal protective equipment.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
Spill clean-up methods	Not available.

7. Handling and storage

Handling

Technical measures	Avoid prolonged or repeated contact with skin. Avoid contact with eyes, skin, and clothing.
Local and general ventilation	Provide good ventilation.
Precautions	Do not re-use empty containers. Avoid prolonged or repeated skin contact with this material. Keep container closed.
Safe handling advice	Avoid contact with eyes and prolonged skin contact. Wear appropriate personal protective equipment.

Storage

Technical measures	Store in original tightly closed container. Keep away from excessive heat or cold.
Suitable storage conditions	Store in accordance with local/regional/national/international regulation. Store in a cool, dry place out of direct sunlight. Protect against direct sunlight.
Incompatible materials	Not available.

8. Exposure controls/personal protection

Exposure limits	No exposure limits noted for ingredient(s).
Engineering measures	Use in a well ventilated area.
Personal protective equipment	
Respiratory protection	Not available.
Hand protection	Not available.
Eye protection	Not available.
Skin and body protection	Not available.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance	aqueous solution
Physical state	Liquid.
Form	Not available.
Color	Not available.
Odor	Odorless
Odor threshold	Not available.
pH	13 (undiluted)
Melting point/freezing point	Not applicable

Boiling point, initial boiling point, and boiling range	Not applicable
Flash point	Not available.
Auto-ignition temperature	Not available.
Flammability (solid, gas)	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.
Vapor pressure	Not available.
Vapor density	Not available.
Evaporation rate	Not available.
Solubility(ies)	
Solubility (water)	Soluble in water
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Softening point	Not applicable
Other data	
Oxidizing properties	Not applicable.
Specific gravity	1.03 (20 °C)
VOC	0 g/L

10. Stability and reactivity

Reactivity	Not available.
Stability	Stable under normal storage conditions.
Conditions to avoid	None.
Incompatible materials	Not available.
Hazardous decomposition products	none under normal use
Possibility of hazardous reactions	Will not occur.

11. Toxicological information

Acute toxicity

Components	Species	Test Results
Polyethyleneimine		
<u>Acute</u>		
Oral		
LD50	Rat	500 - 2000 mg/kg
Routes of exposure	Not available.	
Symptoms	Not available.	
Skin corrosion/irritation	Not available.	
Serious eye damage/eye irritation	Not available.	
Respiratory or skin sensitization		
Respiratory sensitization	Not available.	
Skin sensitization	Not available.	
Germ cell mutagenicity	Not available.	
Carcinogenicity	Not available.	
Toxic to reproduction	Not available.	

Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.
Chronic effects	Not available.
Interactive effects	Not available.
Other information	No data is available on the product itself.

12. Ecological information

Aquatic toxicity This product has not been tested for ecological effects.

Ecotoxicological data

Components	Species		Test Results
Polyethyleneimine (CAS mixture)			
Aquatic			
Crustacea	EC50	Daphnia	8.84, 48 Hours
Fish	LC50	Fish	7.1 mg/l, 96 Hours
Ecotoxicity	Not available.		
Persistence and degradability	Not available.		
Bioaccumulation	Not available.		
Mobility in soil	Not available.		
Other hazardous effects	Not available.		

13. Disposal considerations

Disposal methods/information Not available.

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal.

Local disposal regulations Dispose of in compliance with federal, state, and local regulations.

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.

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

15. Regulatory information

Applicable regulations

CWC (Law of RI No. 9 of 2008 re: Prohibition on the Use of Chemicals as Chemical Weapon, March 10, 2008)

Not regulated.

Dangerous Substances that Must be Registered (Regulation of the Minister of Health of the Republic of Indonesia, No. 472/Menkes/Per/V/1996)

Not regulated.

Import and Distribution Control of Hazardous Materials (Minister of Trade Regulation No. 75/M-DAG/PER/10/2014, Annex I)

Not listed.

Precursor Chemicals (Ministry of Industry and Trade Decree No. 647/MPP/Kep/10/2004 concerning Regulation on Import of Precursors, Attachment 1, Oct. 18, 2004)

Not regulated.

Prohibited Substances (Government Regulation No. 74 of 2001 regarding Management of Hazardous and Poisonous Substances, Attachment II, Table 1)

Not regulated.

Restricted Substances (Government Regulation No. 74 of 2001 regarding Management of Hazardous and Poisonous Substances, Attachment II, Table 2)

Not regulated.

Toxic and Hazardous Materials List (Decree of the Ministry of Industry on the Safeguarding of Toxic and Hazardous Materials in Industrial Plants, No. 148/M/SK/4/1985)

Not regulated.

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.

Applicable regulations

Hazardous Substances Approved for Use (Government Regulation No. 74 of 2001 regarding Management of Hazardous and Poisonous Substances, Attachment I)

Listed substances

Not regulated.

Listed substances / Allowed until 2040

Not regulated.

16. Other information

Issued by

Company name HP Inc.

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23-Dec-2018

References and sources for data used to compile the SDS

Not available.

Revision information

Product and Company Identification: Synonyms
2. Hazards Identification: EU Hazard Classifications
Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties
14. Transport Information: Material Transportation Information
Regulatory Information: Risk Phrases - Labeling
HazReg Data: International Inventories
GHS: Classification

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