Safety Data Sheet

SDS # : F-60017

Black Ink

Issuing Date 2015-02-20 **Revision Date** 2018-11-21 **Version** 4

Active

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name
Aqueous Ink for Impika Compact/Evolution/Reference

Part no. 106R02664
IMPIKA A0004982
Kits: 497N03465, 497N05548

Color Black
Pure substance/mixture Mixture

Relevant identified uses of the substance or mixture and uses advised against
Recommended Use Ink jet printing

Details of the supplier of the safety data sheet
Supplier Xerox Corporation
Webster, NY 14580

For further information, please contact
Contact person Manager, Environment, Health, Safety & Sustainability
E-mail address askxerox@xerox.com
Emergency telephone Safety Information US: (800) 275-9376
Chemical Emergency only (Chemtrec) (800) 424-9300

For the most current document https://safetysheets.business.xerox.com

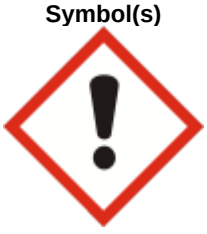
2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Serious eye damage/eye irritation	Category 2

Label elements

Symbol(s)



Signal Word Warning

Hazard Statements H319 - Causes serious eye irritation

Precautionary Statements
P280 - Wear protective gloves/protective clothing/eye protection/face protection
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

Other hazards

Contains a chemical that can cause an allergic reaction in susceptible people

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical Name	CAS No.	Weight %	Classification (Reg. 1272/2008)	Hazard Statements
Water	7732-18-5	50-60	--	--
Glycerol	56-81-5	20-30	--	--
Carbon black	1333-86-4	1-10	--	--
Triethylene glycol, monobutyl ether	143-22-6	2.5-3	Eye Dam. 1	H318
2-Pyrrolidone	616-45-5	1-10	Eye Irrit. 2	H319
1,2-Benzisothiazolin-3-one	2634-33-5	<0.05	Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1 Aquatic Acute 1	H302 H315 H318 H317 H400

"--" indicates no classification or hazard statements apply.

Full text of H- statements: see section 16

4. FIRST AID MEASURES

Description of first-aid measures

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes, If eye irritation persists, consult a specialist

Skin contact Wash off with warm water and soap, Get medical attention if irritation develops and persists

Inhalation Move to fresh air, Get medical attention immediately if symptoms occur

Ingestion If swallowed, do not induce vomiting - seek medical advice

Most important symptoms and effects, both acute and delayed

Acute toxicity

Eyes Irritating to eyes

Skin May cause irritation

Inhalation May cause irritation of respiratory tract

Ingestion Do not ingest

Chronic toxicity Repeated contact may cause allergic reactions in very susceptible persons

Main symptoms **Overexposure may cause:**
Eye irritation
Skin irritation

Indication of immediate medical attention and special treatment needed

Protection of first-aiders No special protective equipment required

Notes to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media Water spray, Foam, Carbon dioxide (CO_2)

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

Special hazards arising from the substance or mixture

None in particular

Hazardous combustion products

Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters

Wear self-contained breathing apparatus and protective suit

Other information

Flash point > 93 °C / > 199 °F

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with the skin and the eyes, Use personal protective equipment

Environmental precautions

Should not be released into the environment, Do not allow material to contaminate ground water system

Methods and material for containment and cleaning up

Methods for containment Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal

Methods for cleaning up Soak up with inert absorbent material, Prevent product from entering drains

Reference to other sections

Do not dispose of waste into sewer

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice, Avoid contact with skin and eyes, Ensure adequate ventilation, Prevent the formation of vapors, mists and aerosols

Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions Keep containers tightly closed in a dry, cool and well-ventilated place, Keep out of the reach of children, Handle with care

Incompatible products None known based on information supplied

Specific end uses

Ink jet printing

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL
Glycerol		TWA: 15 mg/m³ TWA: 5 mg/m³
Carbon black	TWA: 3 mg/m³	TWA: 3.5 mg/m³

Exposure controls

Engineering measures Ensure adequate ventilation, especially in confined areas

Individual protection measures, such as personal protective equipment (PPE)

Eye/Face protection If splashes are likely to occur, wear:, Goggles
Hand protection Protective gloves
Skin and body protection None under normal use conditions
Respiratory protection Use only with adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Opaque	**Odor**	Slight
Physical state	Liquid	**Odor threshold**	No information available
Color	Black	**pH**	8

Flash point > 93 °C / > 199 °F

Boiling point/range No information available
Softening point Not applicable

Evaporation rate No information available
Flammability Limits in Air No information available

Vapor pressure No information available
Vapor density No information available
Specific gravity No information available
Density 1.1 g/cm³
Water solubility Soluble in water
Partition coefficient No information available
Autoignition temperature No information available
Decomposition temperature Not determined
Viscosity No information available
Explosive properties Not explosive
Oxidizing properties Not applicable

Other information

None

10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reactions None under normal processing
Hazardous polymerization Hazardous polymerization does not occur

Conditions to avoid

None known based on information supplied

Incompatible Materials

None known based on information supplied

Hazardous decomposition products

Undefined, but may include toxic oxides of carbon and nitrogen

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Product Information

No acute toxicity information is available for this product

Irritation Irritating to eyes and skin

Component Information

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
Glycerol	12600 mg/kg (Rat)	10 g/kg (Rabbit)	570 mg/m³ (Rat) 1 h
Carbon black	15400 mg/kg (Rat)	3 g/kg (Rabbit)	
Triethylene glycol, monobutyl ether	5300 mg/kg (Rat)	2000 mg/kg (Rabbit)	
2-Pyrrolidone	6500 mg/kg (Rat)	2000 mg/kg (Rabbit)	80 ppm (Rat) 8 h
1,2-Benzisothiazolin-3-one	1020 mg/kg (Rat)		

Chronic toxicity

Sensitization Contains a chemical that can cause an allergic reaction in susceptible people
No hazard expected under normal conditions of use

Neurological Effects No information available

Target organ effects No information available

CMR Effects

Mutagenic effects No information available

Reproductive toxicity No information available

Teratogenicity No information available

Carcinogenicity See "Other Information" in this section.

Chemical Name	IARC	NTP
Carbon black	2B	

Other information

The IARC (International Agency for Research on Cancer) has listed carbon black as "possibly carcinogenic to humans". The classification is based on studies evaluating pure, "free" carbon black. In the process of making this product, the small amount of carbon black is dispersed in a liquid and is not expressed as “free” carbon black. Therefore, this classification does not apply to this product.

Other toxic effects

Aspiration Hazard No information available

12. ECOLOGICAL INFORMATION

Toxicity

Acute Aquatic Toxicity On available data, substance is not harmful to aquatic life.

Chronic Aquatic Toxicity On available data, substance is not harmful to aquatic life.

Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to	Toxicity to daphnia and

			microorganisms	other aquatic invertebrates
Glycerol		LC50 51 - 57 mL/L Oncorhynchus mykiss 96 h		EC50 > 500 mg/L 24 h
Carbon black				EC50 > 5600 mg/L 24 h
Triethylene glycol, monobutyl ether	500 mg/L EC50 72 h (Desmodesmus subspicatus)	LC50= 2400 mg/L Pimephales promelas 96 h LC50 2200 - 4600 mg/L Leuciscus idus 96 h		EC50 > 500 mg/L 48 h
2-Pyrrolidone	250 mg/L EC50 72 h (Desmodesmus subspicatus) 84 mg/L EC50 96 h (Desmodesmus subspicatus)	LC50 4600 - 10000 mg/L Brachydanio rerio 96 h		LC50 = 3.4 mg/L 96 h

Persistence and degradability

No product level data available

Bioaccumulative potential

Bioaccumulation is unlikely

Mobility in soil

Soluble in water

Component Information

Chemical Name	log Pow
Glycerol	-1.76
Triethylene glycol, monobutyl ether	0.51
2-Pyrrolidone	-0.71
1,2-Benzisothiazolin-3-one	1.3

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Methods Do not dispose of waste into sewer
Dispose of in accordance with all applicable local and national environmental laws and regulations

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal

14. TRANSPORT INFORMATION

This material is not subject to regulation as a hazardous material for shipping

15. REGULATORY INFORMATION

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

OSHA Regulatory Status

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Canada

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR), and the SDS contains all the information required by the HPR.

International Inventories

TSCA	Complies
DSL/NDSL	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS No.	SARA 313 - Threshold Values %
Triethylene glycol, monobutyl ether	143-22-6	1.0

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical Name	CAS No.	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Glycerol	56-81-5	20-30		Group II		
Triethylene glycol, monobutyl ether	143-22-6	2.5-3	Present			

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

Carbon black is regulated under California Proposition 65 only if in the form of "airborne, unbound particles of respirable size". Toner products do not contain carbon black in the form of "airborne, unbound particles of respirable size". Therefore, the requirements of Proposition 65 do not apply to this product.

Chemical Name	CAS No.	California Prop. 65
Carbon black	1333-86-4	Carcinogen

U.S. State Right-to-Know Regulations

This product is subject to U.S. State Right-to-know regulations as noted below.

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water			X		
Glycerol	X	X	X		
Carbon black	X	X	X	X	
Triethylene glycol, monobutyl ether		X	X	X	
2-Pyrrolidone	X		X		

16. OTHER INFORMATION

Issuing Date	2015-02-20
Revision Date	2018-11-21
Revision Note	(M)SDS sections updated:, 13, Address for some geographies updated

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation

H400 - Very toxic to aquatic life

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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