

Safety Data Sheet

Issue date 6-May-2016 (DD-MMM-YYYY)

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Identifier

Product name INKJET INK JHS-200 YELLOW

Other means of identification

Single Substance or Mixture mixture

UN number Not applicable

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Ink jet ink (solvent-based)

Uses advised against No information available

Details of the supplier of the safety data sheet

Company Name **Importer / Supplier**
Universal Phaeton Digital Equipment Ltd. -
Huiyang, Huizhou City,
Guangdong, China, 516213
+86 752 3737219

Emergency telephone -

2. Hazards Identification

Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 2
Flammable Liquids	Category 4

Label Elements

EMERGENCY OVERVIEW

DANGER

HARMFUL IF INHALED
Causes serious eye irritation
Causes damage to organs
May cause damage to organs through prolonged or repeated exposure

Combustible liquid

Pictogram



appearance No information available

Physical state liquid

ODR slight odor

Precautionary Statements - Prevention

Use only outdoors or in a well-ventilated area
 Wash face, hands and any exposed skin thoroughly after handling
 Do not breathe dust/fume/gas/mist/vapors/spray
 Do not eat, drink or smoke when using this product
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Specific treatment
 IF exposed: Call a POISON CENTER or doctor/physician
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 If eye irritation persists: Get medical advice/attention
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician if you feel unwell
 In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

OTHER INFORMATION

- MAY BE HARMFUL IF SWALLOWED
- May be harmful in contact with skin
- 65.1% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients

Ingredients contributing to the classification of the mixture, etc.

Chemical name	CAS No	weight-%	Trade secret	EC No
Diethylene glycol diethyl ether	112-36-7	40-50	*	203-963-7
Acetate, 2-butoxyethyl	112-07-2	20-30	*	203-933-3
Propylene carbonate	108-32-7	10-20	*	203-572-1
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	5-10	*	-
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyridine complexes	68511-62-6	1-5	*	270-944-8

4. First aid measures

FIRST AID MEASURES

General advice	Do not breathe dust/fume/gas/mist/vapors/spray Do not get in eyes, on skin, or on clothing
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes Get medical attention if irritation develops and persists
inhalation	If breathing is irregular or stopped, administer artificial respiration Seek immediate medical attention/advice IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell
INGESTION	Get medical attention Clean mouth with water

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

5. Fire-fighting measures

<u>Suitable extinguishing media</u>	CO2, dry chemical, dry sand, alcohol-resistant foam, mist of alkali salts water Move containers from fire area if you can do it without risk Use extinguishing measures that are appropriate to local circumstances and the surrounding environment Remove combustible materials from their surroundings immediately
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire
<u>Explosion data</u>	
Sensitivity to Mechanical Impact	May be ignited by heat, sparks or flames
Sensitivity to Static Discharge	May be ignited by heat, sparks or flames
Flammable properties	May re-ignite after fire is extinguished Flammable/combustible material
Special Extinguishing Media	Cool container with water spray
Special protective equipment for fire-fighters	Use personal protective equipment as required In the event of fire and/or explosion do not breathe fumes Special protective equipment for fire-fighters

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Stay upwind Evacuate personnel to safe areas ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Use personal protective equipment as required Avoid contact with skin, eyes and inhalation of vapors In the case of vapor formation use a respirator with filter model In case of fire: Stop leak if safe to do so Do not touch damaged containers or spilled material unless wearing appropriate protective clothing Ensure adequate ventilation, especially in confined areas Wash thoroughly after handling
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OTHER INFORMATION Ventilate the area

Environmental Precautions

Environmental Precautions	See Section 12 for additional Ecological Information Dispose of contents/container to an approved waste disposal plant Do not flush into surface water or sanitary sewer system Avoid release to the environment Collect spillage
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Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so

Methods for cleaning up Soak up with inert absorbent material
Dam up

7. Handling and Storage

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
Do not breathe dust/fume/gas/mist/vapors/spray
Use personal protection recommended in Section 8
Use only in well-ventilated areas
Burn or dispose of the wiping cloths used to clean up the product at once
Wash contaminated clothing before reuse
Wash hands thoroughly and gargle after handling

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place
Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)
Incompatible with oxidizing agents
The product shall be stored in the original containers/vessels

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acetate, 2-butoxyethyl	TWA: 20 ppm	-	TWA: 5 ppm TWA: 33 mg/m ³

Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	-	-	IDLH: 10 mg/m ³ Ni TWA: 0.015 mg/m ³ except Nickel carbonyl Ni
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NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering controls	Ensure adequate ventilation, especially in confined areas Showers Eyewash stations Ventilation systems
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Individual protection measures, such as personal protective equipment

Respiratory protection	In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit
Hand protection	Wear protective gloves
Skin and Body Protection	Protective shoes or boots

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	liquid	ODR	slight odor
appearance	No information available	odor threshold	No information available
color	colored		

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Flash point measuring method</u>
pH	Not applicable		
Melting point/freezing point	no data available		
Boiling point/boiling range	no data available	No information available	
Flash Point	> 70°C	Seta Closed Cup	
Evaporation Rate	no data available	No information available	
Combustibility	no data available		
Flammability Limits in Air			
Upper flammability limits	no data available		
Lower Flammability Limit	no data available		
vapor pressure	no data available	No information available	
Vapor density	no data available	No information available	
Specific gravity	0.9-1.1		
solubility(ies)			
Water solubility	Immiscible in water		
Organic Solvent Solubility	soluble in organic solvents		
Partition coefficient	no data available	No information available	
Autoignition temperature	no data available	No information available	
decomposition temperature	no data available	No information available	
Kinematic viscosity	no data available		

Chemical name	Boiling point °C	density	Vapor pressure	Vapor density	Flash Point	Autoignition temperature
Diethylene glycol diethyl ether	188 °C	-	0.5 mmHg at 25 °C	-	82 °C open cup	-
Acetate, 2-butoxyethyl	184 - 195 °C	0.935 - 0.942 g/cm ³ at 20 °C	0.31 hPa at 20 °C	5.5	71 °C	280 °C
Propylene carbonate	241.9 °C	1.204 g/cm ³ at 20 °C	0.03 mmHg at 20 °C	3.52	135 °C open cup	510 °C

10. Stability and Reactivity

reactivity

Chemical stability

stability Stable under normal conditions

Possibility of hazardous reactions

Conditions to Avoid

Incompatible Materials

Incompatible Materials Reference to other sections; 7

Hazardous decomposition products

Hazardous decomposition products May emit toxic fumes under fire conditions

Sensitivity to Static Discharge May be ignited by heat, sparks or flames

11. Toxicological Information

Information on likely routes of exposure

Product Information no data available

inhalation Reference to other sections; 4
Eye Contact Reference to other sections; 4
Skin contact Reference to other sections; 4
INGESTION Reference to other sections; 4

Chemical name	Oral LD50	dermal LD50	Inhalation LC50	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP] ANNEX VI Table3.1 / Other	Japan GHS Classification
Diethylene glycol diethyl ether	-	-	-	-	Eye Irrit. 2A (H319)	Eye Irrit. 2A Flam. Liq. 4
Acetate, 2-butoxyethyl	1600 mg/kg (Rat)	1480 mg/kg (Rabbit)	-	Xn; R20/21	Acute Tox. 4 (H312) Acute Tox. 4 (H332) Acute Tox. 4 (H302) STOT SE 1 (H370) STOT SE 2 (H371) STOT RE 2 (H373) Aquatic Acute 3 (H402)	Aquatic Acute 3 STOT RE 2 STOT SE 2 STOT SE 1 Acute Tox. Der. 4 Flam. Liq. 4
Propylene carbonate	29000 mg/kg (Rat)	> 20 mL/kg (Rabbit)	-	Xi; R36	Eye Irrit. 2 (H319)	Eye Irrit. 2A
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	-	-	-	-	STOT SE 3 (H336)	STOT SE 3 Flam. Liq. 4

GHS/CLP Classification Note:

Acute Tox. Der. :Acute toxicity - Dermal, Acute Tox. Inh. (D/M) :Acute toxicity - Inhalation - Dusts and Mists, Acute Tox. Inh. (Gas) :Acute toxicity - Inhalation - Gases, Acute Tox. Inh. (Vap) :Acute toxicity - Inhalation - Vapours, Acute Tox. Oral :Acute toxicity - Oral, Aquatic Acute :Acute Hazardous to the aquatic environment, Aquatic Chronic :Chronic Hazardous to the aquatic environment, Asp. Tox. :Aspiration hazard, Carc. :Carcinogenicity, Expl. :Explosives, Eye Dam. :Serious eye damage, Eye Irrit. :Eye irritation, Flam. Gas :Flammable gases (including chemically unstable gases), Flam. Liq. :Flammable liquids, Flam. Solid :Flammable solids, Lact. :Effects on or via lactation, Met. Corr. :Corrosive to metals, Muta. :Germ cell mutagenicity, Org. Perox. :Organic peroxides, Ox. Gas :Oxidizing gases, Ox. Liq. :Oxidizing liquids, Ox. Sol. :Oxidizing solids, Press. Gas :Gases under pressure, Pyr. Liq. :Pyrophoric liquids, Pyr. Sol. :Pyrophoric solids, Repr. :Reproductive toxicity, Resp. Sens. :Respiratory sensitization, Self-heat. :Self-heating substances and mixtures, Self-react. :Self-reactive substances and mixtures, Skin Corr. :Skin corrosion, Skin Irrit. :Skin irritation, Skin Sens. :Skin sensitization, STOT RE :Specific target organ toxicity – Repeated exposure, STOT SE :Specific target organ toxicity – Single exposure, Water-react. :Substances and mixtures which, in contact with water emit flammable gases

Information on toxicological effects

Symptoms No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

sensitization No information available

Germ Cell Mutagenicity No information available

Carcinogenicity

Chemical name	ACGIH	IARC	NTP	OSHA
Acetate, 2-butoxyethyl	A3	-	-	-
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)- pyrimidinetrione complexes	-	Group 1	Known	X

ACGIH Note: A1:Confirmed Human Carcinogen, A2:Suspected Human Carcinogen, A3:Confirmed Animal Carcinogen with Unknown Relevance to Humans

IARC Note: Group 1:Carcinogenic to humans, Group 2A:Probably carcinogenic to humans, Group 2B:Possibly carcinogenic to humans, Group 3:Not classifiable as to carcinogenicity in humans

NTP Note: Known: (Known to be Human Carcinogens) , Reasonably Anticipated: (Reasonably Anticipated to be Human Carcinogens)

OSHA Note: X:Applicable

Reproductive Toxicity No information available

STOT - single exposure No information available

STOT - repeated exposure No information available

Aspiration Hazard No information available

Numerical measures of toxicity - Product Information

Unknown acute toxicity 65.1% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 2208 mg/kg
ATEmix (dermal) 2038 mg/kg
ATEmix (inhalation-dust/mist) 2.1 mg/l

12. Ecological Information

ecotoxicity

75.6% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability No information available

Bioaccumulation No information available

Chemical name	Partition coefficient
Acetate, 2-butoxyethyl	1.51
Propylene carbonate	0.48

Other adverse effects No information available

13. Disposal Considerations

Waste treatment methods

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal

This product contains one or more substances that are listed with the State of California as a hazardous waste

Waste from Residues / Unused Products avoid
Disposal should be in accordance with applicable regional, national and local laws and regulations

OTHER INFORMATION Store in a tightly sealed drum to prevent the spillage of the content

14. Transport Information

Containers/vessels must be leakage-free. Loading must be done to prevent containers from falling, dropping down and being damaged
Take necessary steps to prevent collapse

UN number Not applicable
Packing group Not applicable
ERG Code 133
Proper shipping name Not applicable

DOT Not regulated
UN number Not applicable
Packing group Not applicable

TDG Not regulated
UN number Not applicable
Packing group Not applicable

MEX Not regulated
UN number Not applicable
Packing group Not applicable

ICAO (air) Not regulated
UN number Not applicable

Packing group	Not applicable
IATA	Not regulated
UN number	Not applicable
Packing group	Not applicable
IMDG	Not regulated
UN number	Not applicable
Packing group	Not applicable
RID	Not regulated
UN number	Not applicable
Packing group	Not applicable
ADR	Not regulated
UN number	Not applicable
Packing group	Not applicable
ADN	Not regulated
UN number	Not applicable
Packing group	Not applicable

15. Regulatory information

International Inventories

TSCA

TSCA SNUR's Component Information

Component	U.S. - TSCA (Toxic Substances Control Act) - Section 5(a)(2) - Chemicals with Significant New Use Rules (SNURs)
Diethylene glycol diethyl ether 112-36-7 (40-50)	76 FR 40850, July 12, 2011 Proposed rule

US 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	weight-%	SARA 313 - Threshold Values %
Diethylene glycol diethyl ether	112-36-7	40-50	1.0
Acetate, 2-butoxyethyl	112-07-2	20-30	1.0
Propylene carbonate	108-32-7	10-20	-
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	5-10	-
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	68511-62-6	1-5	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CAS No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Diethylene glycol diethyl ether	112-36-7	-	-	-	-
Acetate, 2-butoxyethyl	112-07-2	-	-	-	-
Propylene carbonate	108-32-7	-	-	-	-
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	-	-	-	-
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	68511-62-6	-	X	-	-

CERCLA

Does not apply

Chemical name	CAS No	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Diethylene glycol diethyl ether	112-36-7	-	-	-
Acetate, 2-butoxyethyl	112-07-2	-	-	-
Propylene carbonate	108-32-7	-	-	-
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	-	-	-
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	68511-62-6	-	-	-

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical name	CAS No	California Proposition 65
Diethylene glycol diethyl ether	112-36-7	-
Acetate, 2-butoxyethyl	112-07-2	-
Propylene carbonate	108-32-7	-
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	-
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	68511-62-6	Carcinogen

U.S. State Right-to-Know Regulations**US State Regulations**

Chemical name	CAS No	New Jersey	Massachusetts	Pennsylvania
Diethylene glycol diethyl ether	112-36-7	X	-	X
Acetate, 2-butoxyethyl	112-07-2	X	-	X
Propylene carbonate	108-32-7	-	-	-
Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	-	-	-
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes	68511-62-6	X	-	X

U.S. EPA Label information

EPA Pesticide registration number Not applicable

16. Other information

<u>NFPA</u>	Health Hazards	2	flammability	2	Instability	0	Physical and chemical properties	-
<u>HMIS</u>	Health Hazards	2	flammability	2	Physical Hazards	0	PERSONAL PROTECTION	H

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Revision note

Disclaimer

The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of Safety Data Sheet