



MSDS Safety Data Sheet

Issue date 22-Jul-2015 (DD-MMM-YYYY)

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

Product Identifier

Product name I N K J E T I N K S K F L U S H - 2

Other means of identification

H- Product code 072863
E- Product code S6082247-LPIH00LA-LPIH00LA
Single Substance or Mixture mixture
UN number Not applicable
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Dispersion for color filter
Uses advised against No information available

Details of the supplier of the safety data sheet

Company Name
Universal Phaeton Ltd.
Huiyang, Huizhou City
Guangdong, China, 516213
+86 752 3737219

2. Hazards Identification

Classification

Serious eye damage/eye irritation	Category 2A
Flammable Liquids	Category 4

Label Elements**EMERGENCY OVERVIEW****WARNING**

Causes serious eye irritation

Combustible liquid

Pictogram**appearance** No information available**Physical state** liquid**ODR** slight odor**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Wear protective gloves/protective clothing/eye protection/face protection

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

In case of fire: Use CO₂, dry chemical, or foam for extinction**Precautionary Statements - Storage**

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**

- 91.0% 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	90-100	*	203-963-7
Propylene carbonate	108-32-7	5-10	*	203-572-1

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

If eye irritation persists: Get medical advice/attention

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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing If breathing is irregular or stopped, administer artificial respiration Seek immediate medical attention/advice
INGESTION	Do NOT induce vomiting Potential for aspiration if swallowed Clean mouth with water Get medical attention

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 Containers may explode when heated Will form explosive mixtures with air Vapors from liquefied gas are initially heavier than air and spread along ground
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	<ul style="list-style-type: none"> 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 Take precautionary measures against static discharges
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OTHER INFORMATION	Ventilate the area
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Environmental Precautions

Environmental Precautions	<ul style="list-style-type: none"> 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
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Methods for cleaning up	<ul style="list-style-type: none"> Soak up with inert absorbent material Dam up Use only non-sparking tools
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7. Handling and Storage

Precautions for safe handling

Advice on safe handling	<ul style="list-style-type: none"> Take precautionary measures against static discharges Use personal protection recommended in Section 8 Use only in well-ventilated areas 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 Wash contaminated clothing before reuse Wash hands thoroughly and gargle after handling Burn or dispose of the wiping cloths used to clean up the product at once
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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) Use spark-proof tools and explosion-proof equipment Incompatible with oxidizing agents Store locked up The product shall be stored in the original containers/vessels
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

Exposure guidelines	No information available
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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

Eye/face Protection	Wear safety glasses with side shields (or goggles)
Respiratory protection	Wear suitable respiratory equipment Respirator cartridge should be exchanged at regular intervals or at proper time according to breakthrough time
Hand protection	Wear protective gloves
Skin and Body Protection	Wear suitable protective clothing Antistatic footwear

9. Physical and Chemical Properties**Information on basic physical and chemical properties**

Physical state	liquid		
appearance	No information available	ODR	slight odor
color	clear	odor threshold	No information available
<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Flash point measuring method</u>
pH	no data available		
Melting point/freezing point	no data available		
Boiling point/boiling range	no data available	No information available	
Flash Point	>60°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	Soluble 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	-
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
Heating may cause an explosion

Possibility of hazardous reactions

Conditions to Avoid

Conditions to Avoid Take precautionary measures against static discharges
Extremes of temperature and direct sunlight

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
Propylene carbonate	29000 mg/kg (Rat)	> 20 mL/kg (Rabbit)	-	Xi; R36	Eye Irrit. 2 (H319)	Eye Irrit. 2A

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 No information available

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 91.0% 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) 29000 mg/kg

ATEmix (dermal) 24080 mg/kg

12. Ecological Information

ecotoxicity

100% 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
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

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 (90-100)	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	90-100	1.0
Propylene carbonate	108-32-7	5-10	-

SARA 311/312 Hazard Categories

Acute Health Hazard yes
Chronic Health Hazard no
Fire Hazard yes
Sudden release of pressure hazard no
Reactive Hazard no

CWA (Clean Water Act)

Does not apply

Chemical name	CAS No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Diethylene glycol diethyl ether	112-36-7	-	-	-	-
Propylene carbonate	108-32-7	-	-	-	-

CERCLA

Does not apply

Chemical name	CAS No	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Diethylene glycol diethyl ether	112-36-7	-	-	-
Propylene carbonate	108-32-7	-	-	-

US State Regulations**California Proposition 65**

Does not apply

Chemical name	CAS No	California Proposition 65
Diethylene glycol diethyl ether	112-36-7	-
Propylene carbonate	108-32-7	-

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
Propylene carbonate	108-32-7	-	-	-

U.S. EPA Label information

EPA Pesticide registration number Not applicable

16. Other information

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

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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