

Material Safety Data Sheet

SECTION 1: Product and company identification

Commodity classification	inkjet printing
Product Name	LV Series: Varnish
Company name	Inkcups Now Corp.
Address of the company	310 Andover Street, Danvers, MA 01923
Emergency phone number	(+1) 800-222-1222 (Health) (+1) 800-535-5053 (Domestic) (+1) 800-323-3500 (International)

SECTION 2: Hazards identification

GHS - Classification

Acute toxicity-Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Acute toxicity-skin	Category 4
Chronic aquatic toxicity	Category 2

Label Elements

Pictogram



Signal Word **DANGER**

Hazard statements

- H315- Causes skin irritation
- H317- May cause an allergic skin reaction
- H319- Causes severe eye irritation
- H302- Swallowing harmful
- H312- Harmful skin contact
- H314- Causes severe skin burns and eye injuries
- H412- Harmful to aquatic life with long lasting effects

Precautionary Statements-Prevention

- P260- Do not breathe dust/fume/gas/mist/vapours/spray
- P261- Avoid breathing dust/fume/gas/mist/vapours/spray
- P264- Wash hands thoroughly after handling
- P270- Do not eat, drink or smoke when using this product
- P272- Contaminated work clothing should not be allowed out of the workplace
- P273- Avoid release to the environment
- P280- Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements-Response

- P310 Immediately call a POISON CENTER or doctor/physician
 P312 Call a POISON CENTER or doctor/physician if you feel unwell
 P330 Rinse mouth
 P363 Wash contaminated clothing before reuse
 P391 Collect spillage. Hazardous to the aquatic environment
 P330 Rinse mouth
 P302+P352 If on skin: Wash with plenty of soap and water.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes

Precautionary Statements-Storage

- P405 Store locked up

Precautionary Statements-Disposal

- P501 Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified

Not applicable

SECTION 3: Composition/information on ingredients

SN	Chemical Name	CAS	Weight (%)
1	Ethyl (2,4,6-trimethylbenzoyl) phenylphosphinate	<u>84434-11-7</u>	5-10%
2	Phenylbis(2,4,6-trimethylbenzoyl)phosphine oxide	<u>162881-26-7</u>	3-6%
3	Trimethylolpropane triacrylate	<u>15625-89-5</u>	5-10%
4	Oxybis(methyl-2,1-ethanediyl) diacrylate	<u>57472-68-1</u>	10-15%
5	Hexamethylene diacrylate	<u>13048-33-4</u>	25-30%
6	2-PHENOXYETHYL ACRYLATE	<u>48145-04-6</u>	15-20%
7	2-(2-Ethoxyethoxy)ethyl acrylate	<u>7328-17-8</u>	3-6%
8	N,N-Dimethylacrylamide	<u>2680-03-7</u>	5-10%
9	Epoxy resin	<u>38891-59-7</u>	5-15%

SECTION 4: First aid measures

General advice

Immediate medical attention is required If symptoms persist, call a physician
 Do not breathe dust/fume/gas/mist/vapors/spray Do not get in eyes, on skin, or on clothing May produce an allergic reaction

Inhalation

Remove to fresh air
 Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation Seek immediate medical attention/advice
 If breathing is irregular or stopped, administer artificial respiration

Artificial respiration and/or oxygen may be necessary Call a physician
Move to fresh air in case of accidental inhalation of vapors
If symptoms persist, call a physician
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF INHALED: Call a POISON CENTER or doctor if you feel unwell

Skin contact

Immediate medical attention is required
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes
Wash contaminated clothing before reuse
Wash off immediately with soap and plenty of water
If skin irritation persists, call a physician
Get medical attention if irritation develops and persists

Eye Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes
Keep eye wide open while rinsing
Call a physician immediately
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
If symptoms persist, call a physician
If eye irritation persists: Get medical advice/attention

INGESTION

Do NOT induce vomiting
Clean mouth with water and drink afterwards plenty of water
Never give anything by mouth to an unconscious person
Call a physician or poison control center immediately
Call a physician
Potential for aspiration if swallowed
Get medical attention
Clean mouth with water

Self-protection of the first aider

Use personal protection recommended in Section 8
Avoid contact with skin, eyes or clothing

Note to physicians

May cause sensitization of susceptible persons
Treat symptomatically

SECTION 5: Fire fighting measures

Suitable extinguishing media

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

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes May cause sensitization by inhalation and skin contact
Thermal decomposition can lead to release of irritating and toxic gases and vapors The product causes irritation of eyes, skin and mucous membranes

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary Use personal protective equipment as required
In the event of fire and/or explosion do not breathe fumes Special protective equipment for fire-fighters

Flammable properties

May re-ignite after fire is extinguished Flammable/combustible material

Unsuitable extinguishing media

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

Special Extinguishing Media

Cool container with water spray

SECTION 6: Accidental release measures**Environmental Precautions**

Prevent further leakage or spillage if safe to do so
Prevent product from entering drains
Do not flush into surface water or sanitary sewer system
See Section 12 for additional Ecological Information
Dispose of contents/container to an approved waste disposal plant
Avoid release to the environment
Collect spillage

Methods for cleaning up

Cover liquid spill with sand, earth or other non-combustible absorbent material
Cover powder spill with plastic sheet or tarp to minimize spreading
Sweep up and shovel into suitable containers for disposal
Soak up with inert absorbent material
Dam up
Pick up and transfer to properly labeled containers
Use only non-sparking tools

Personal precautions

Use personal protective equipment as required
Keep people away from and upwind of spill/leak
Evacuate personnel to safe areas
Stay upwind
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)
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
Take precautionary measures against static discharges

Other information

Ventilate the area

Methods for Containment

Prevent further leakage or spillage if safe to do so
Cover powder spill with plastic sheet or tarp to minimize spreading
Dike far ahead of liquid spill for later disposal

SECTION 7: Handling and storage**Advice on safe handling**

Avoid contact with skin, eyes or clothing
Wash contaminated clothing before reuse
Do not eat, drink or smoke when using this product
Use personal protection recommended in Section 8
Do not breathe dust/fume/gas/mist/vapors/spray

- Use with local exhaust ventilation
- Take precautionary measures against static discharges
- Use only in well-ventilated areas
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
- Wash hands thoroughly and gargle after handling
- Burn or dispose of the wiping cloths used to clean up the product at once

General hygiene considerations

- When using do not eat, drink or smoke
- Regular cleaning of equipment, work area and clothing is recommended
- Avoid contact with skin, eyes or clothing
- Wash hands thoroughly after handling
- Keep away from food, drink and animal feeding stuffs

Storage Conditions

- Keep containers tightly closed in a dry, cool and well-ventilated place
- Keep out of the reach of children Keep in properly labeled containers
- 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
- The product shall be stored in the original containers/vessels
- Polymerization is caused by ultra violet rays or heat. Store in a cool, dark and well-ventilated place.
- Containers/vessels should be tightly closed

SECTION 8: Exposure controls/personal protection

Exposure Limits

No information available

Engineering controls

- Ensure adequate ventilation, especially in confined areas
- Showers
- Eyewash stations
- Ventilation systems

Personal protective equipment (PPE)

Respiratory protection

- In case of insufficient ventilation, 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

Eye/face Protection

- Tight sealing safety goggles Face protection shield
- Wear safety glasses with side shields (or goggles)

Skin and Body Protection

- Suitable protective clothing
- Gloves made of plastic or rubber Wear suitable protective clothing Apron
- Protective shoes or boots

SECTION 9: Physical and chemical properties

Physical state	Liquid
color	transparent color
ODR	characteristic odor no data
odor threshold	available

<u>Property</u>	<u>Values</u>	<u>Remarks • 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	≥ 120°C	Seta Closed Cup
Evaporation Rate	no data available	No information available
Combustibility	no data available	
explosive limits		
Explosive upper limit	no data available	
Explosive lower limit	no data available	
vapor pressure	no data available	No information available
Vapor density	No data available	No information available
Specific gravity	0.8-0.9	
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

SECTION 10: Stability and reactivity

stability

Stable under normal conditions

Explosion data

Sensitivity to Mechanical Impact

May be ignited by heat, sparks or flames

Sensitivity to Static Discharge

May be ignited by heat, sparks or flames

Possibility of hazardous reactions

None under normal processing

Conditions to Avoid

Take precautionary measures against static discharges

Extremes of temperature and direct sunlight

Heat

Incompatible Materials

Heat

Strong acids

oxidizers

alkali Light peroxides

radical initiators

Hazardous decomposition products

May emit toxic fumes under fire conditions

hazardous polymerization

None under normal processing

Stability

Stable under normal conditions

Polymerization can occur

Heating may cause an explosion

SECTION 11: Stability and reactivity

Repeated or prolonged contact may cause allergic reactions in very susceptible persons May cause sensitization by skin contact May cause sensitization by inhalation and skin contact

Acute Toxicity

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
Skin corrosion/irritation	No information available
Serious eye damage/Eye irritation	No information available
Sensitization	No information available
Germ Cell Mutagenicity	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

SECTION 12: Ecological information

Ecotoxicity	unknown hazards to the aquatic environment
Persistence and degradability	No information available
Bioaccumulation	No information available
Mobility	No information available
Other adverse effects	No information available

SECTION 13: Disposal considerations

Waste from Residues / Unused Products

Should not be released into the environment. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

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

Other information

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

SECTION 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. Use opaque containers/vessels for storage and transport.

UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Hazard Class	9
Packing group	III
EmS-No	F-A, S-F

SECTION 15: Regulatory information

Prevention and Control of Occupational Diseases	Present
Regulations on Safe Management of Hazardous chemicals	Not applicable
Regulation on the Administration of Precursor Chemicals	Not applicable
Harmonized Commodity Description and Coding System	
The Law of the People's Republic of China on Import and Export Commodity Inspection	Not applicable
Regulations for Environmental Management on the	Import and Export of Toxic Chemicals

Not applicable

Road transport management regulations for dangerous goods

Not applicable

SECTION 16: Other information

Issue date	1-Dec-2020
Key literature references and sources for data	LOLI Database (ChemADVISOR, Inc.)

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