Safety Data Sheet

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2024)

Printing date 05/01/2025 Version: 1.0 Reviewed on 05/01/2025

1 Identification

Product identifier

Product name: LVR Yellow

Article number: LVR Yellow
Application of the substance / the mixture: Printing inks, Restricted to professional users.

Details of the supplier of the safety data sheet
INKCUPS CORP.
310 ANDOVER ST.
DANVERS, MA 01923 - USA
978-646-8980

Information department: compliance@inkcups.com
Emergency telephone number: CHEMTREC 800-424-9300 24hr

2 Hazard(s) identification

OSHA/HCS status
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture
Acute Tox. 4; H302, Harmful if swallowed.
Skin Corr. 1C; H314, Causes severe skin burns and eye damage.
Skin Sens. 1; H317, May cause an allergic skin reaction.
Eye Dam. 1; H318, Causes serious eye damage.
Repr. 1B; H360, May damage fertility or the unborn child.

Label elements
GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
Hazard pictograms

Signal word Danger

Hazard statements
Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May damage fertility or the unborn child.

Precautionary statements
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe vapor/mist.
Wash hands and exposed skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear face protection/protective gloves/protective clothing.

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IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Immediately call a POISON CENTER/doctor.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Avoid release to the environment.
Dispose of contents/container in accordance with local/regional/national/international regulations.
Additional information:
Not applicable.

3 Composition/information on ingredients

Chemical characterization: This product is a mixture.

Dangerous components:

86273-46-3	2-Propenoic acid, 2-[2-(ethenyloxy)ethoxy]ethyl ester Acute Tox. 4, H302; Skin Sens. 1, H317	40 - 60%
48145-04-6	2-phenoxyethyl acrylate Skin Sens. 1A, H317; Repr. 2, H361	10 - 15%
2399-48-6	Tetrahydrofurfuryl acrylate 1, HHNOC071; Acute Tox. 4, H302; Skin Corr. 1C, H314; Skin Sens. 1B, H317; Eye Dam. 1, H318; Repr. 1B, H360	10-15%
84434-11-7	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate Skin Sens. 1B, H317	10 - 15%
84170-74-1	Neopentyl glycol propoxylate diacrylate Skin Sens. 1B, H317	5 - 10%
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide Skin Sens. 1A, H317	3 - 5%
68511-62-6	Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes [19]	1 - 3%
53879-54-2	Propylidynetrimethanol, propoxylated, esters with acrylic acid Skin Irrit. 2, H315; Eye Irrit. 2, H319	1 - 3%
13048-33-4	hexane-1,6-diol diacrylate Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319	< 1%
97-99-4	tetrahydro-2-furylmethanol;tetrahydrofurfuryl alcohol Eye Irrit. 2, H319; Repr. 1B, H360Df	< 0.25%

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

4 First-aid measures

Description of first aid measures
General information

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If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment. Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable.

Most important symptoms and effects, both acute and delayed

Sensitization: This product contains substances, which may trigger allergic reaction upon dermal contact.
Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.
Tissue-damaging effects: This product contains substances with skin corrosive properties.
Inhaled vapor or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Indication of any immediate medical attention and special treatment needed

IF exposed or concerned: Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Carbon oxides (CO / CO2)

Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Avoid direct contact with spilled substances.
Ensure adequate ventilation, especially in confined areas.
Contaminated areas may be slippery.

Environmental precautions
Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill.

Methods and material for containment and cleaning up
Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

Reference to other sections
See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

7 Handling and storage

Precautions for safe handling
Avoid direct contact with the product.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

Conditions for safe storage, including any incompatibilities
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material
Keep only in original packaging.

Storage conditions
Dry, cool and well ventilated 5 - 30°C
Protect from sunlight.

Incompatible materials
No specific requirements

Specific end use(s)
This product should only be used for applications quoted in section 1.

8 Exposure controls/personal protection

Control parameters
toluene
Short term exposure limit (STEL) (NIOSH REL) (ppm): 150
Long term exposure limit (ACGIH TLV) (ppm): 20

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

Exposure controls
Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations
Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios
There are no exposure scenarios implemented for this product.

Exposure limits
Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

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Appropriate technical measures

The formation of vapors must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapors.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Respiratory Equipment

Respiratory protection is not needed in the event of adequate ventilation.

Skin protection

Dedicated work clothing should be worn.

Hand protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection

In the likel hood of direct or incidental exposure, use face protection.

anti-splash safety goggles

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9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Liquid
Color:	Yellow
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not relevant.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	> 100 °C (> 212 °F)
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not determined.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity

No data available.

Chemical stability

The product is stable under the conditions, noted in section 7 “Handling and storage”.

Possibility of hazardous reactions, including those associated with foreseeable emergencies

None known.

Conditions to avoid

Sunlight

Incompatible materials

No specific requirements

Hazardous decomposition products

Thermal decomposition may produce corrosive vapors.

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11 Toxicological information

Information on toxicological effects

Acute toxicity:

Product/substance	Propylidynetrimethanol, propoxylated, esters with acrylic acid
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>2000 mg/kg

Product/substance	hexane-1,6-diol diacrylate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>5000 mg/kg

Product/substance	hexane-1,6-diol diacrylate
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	3650 mg/kg

Harmful if swallowed.

Skin corrosion/irritation

Product/substance	Propylidynetrimethanol, propoxylated, esters with acrylic acid
Result:	No adverse effect observed (Not irritating)

Product/substance	hexane-1,6-diol diacrylate
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	Propylidynetrimethanol, propoxylated, esters with acrylic acid
Result:	No adverse effect observed (Not irritating)

Product/substance	hexane-1,6-diol diacrylate
Result:	Adverse effect observed (Highly irritating)

Causes serious eye damage.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Skin sensitization

Product/substance	Propylidynetrimethanol, propoxylated, esters with acrylic acid
Result:	No adverse effect observed (not sensitizing)

Product/substance	hexane-1,6-diol diacrylate
Result:	Adverse effect observed (sensitizing)

May cause an allergic skin reaction.

Germ cell mutagenicity

Product/substance	Propylidynetrimethanol, propoxylated, esters with acrylic acid
Test method:	OECD 471

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Species: Bacteria
Conclusion: No adverse effect observed

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Product/substance	Propylidynetrimethanol, propoxylated, esters with acrylic acid
Species:	Rat
Test:	NOAEL
Result:	>=500 mg/kg bw/day

May damage fertility or the unborn child.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapor or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Other information

Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes has been classified by IARC as a group 1 carcinogen. toluene has been classified by IARC as a group 3 carcinogen.

12 Ecological information

Toxicity

Product/substance	hexane-1,6-diol diacrylate
Species:	Fish, Oryzias latipes
Duration:	96 hours
Test:	LC50
Result:	0.38 mg/L

Product/substance	hexane-1,6-diol diacrylate
Species:	Crustacean, Daphnia magna
Duration:	48 hours
Test:	EC50
Result:	2.7 mg/L

Based on available data, the classification criteria are not met.

Persistence and degradability

Product/substance	hexane-1,6-diol diacrylate
Conclusion:	Readily biodegradable

Bioaccumulative potential

Product/substance	hexane-1,6-diol diacrylate
LogKow:	2.81 @ 25C
Conclusion:	-

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Mobility in soil

No data available.

Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

Other adverse effects

None known.

13 Disposal considerations

RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

toluene is listed with EPA Hazardous Waste Number: U220

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

14 Transport information

UN-Number

DOT	Not Regulated
IMDG, IATA	UN3082

UN proper shipping name

DOT	not regulated
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-phenoxyethyl acrylate), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-phenoxyethyl acrylate)

Transport hazard class(es)

IMDG, IATA

Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
DOT	not regulated
IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Hazard identification number (Kemler code):	90
EMS Number:	F-A S-F
Stowage Category	A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

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Product name: LVR Yellow

Transport/Additional information:

IMDG

Limited quantities (LQ) 5L

UN "Model Regulation": UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-PHENOXYETHYL ACRYLATE), 9, III

Additional Information

These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of DOT/IMDG/IATA provided the packaging's meet the general specifications for packaging: Part 178 (DOT) / 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA).

-

DOT / See § 172.101 Hazardous Materials Table for any information on special provisions, requirements, or warnings in connection with transport. See § 172.602, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

15 Regulatory information

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

U.S. Federal regulations

TSCA (the non-confidential portion)

2-Propenoic acid, 2-[2-(ethenyloxy)ethoxy]ethyl ester is listed
2-phenoxyethyl acrylate is listed
Tetrahydrofurfuryl acrylate is listed
Neopentyl glycol propoxylate diacrylate is listed
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide is listed
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes is listed
Propylidynetrimethanol, propoxylated, esters with acrylic acid is listed
hexane-1,6-diol diacrylate is listed
tetrahydro-2-furylmethanol;tetrahydrofurfuryl alcohol is listed
toluene is listed

Clean Air Act

Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes is regulated as a hazardous air pollutant (HAPS)
toluene is regulated as a hazardous air pollutant (HAPS)

EPCRA Section 302

None of the components are listed

EPCRA Section 304

None of the components are listed

EPCRA section 313

Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes is listed
toluene is listed

CERCLA

toluene is regulated with a Reportable Quantity (RQ) of: 1000 pounds

Hazardous chemical inventory reporting

This product is subject to Tier II reporting.

State regulations

California / Prop. 65

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Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione complexes is known to cause: cancer
toluene is known to cause: Developmental Toxicity
NSRL/MADL (µg/day): 7000 (Level represents absorbed dose (rounded from 6,525 µg/day)

Massachusetts / Right To Know Act
tetrahydro-2-furylmethanol;tetrahydrofurfuryl alcohol is listed
toluene is listed

New Jersey / Right To Know Act
toluene / Substance number: 1866
toluene is on the Special Health Hazard Substance List

New York / Right To Know Act
toluene is listed
toluene is regulated with a Reportable Quantity (RQ) of:
1000 pounds
toluene is regulated with a Threshold Reporting Quantity
(TRQ) of: 0 pounds

Pennsylvania / Right To Know Act
tetrahydro-2-furylmethanol;tetrahydrofurfuryl alcohol is listed
toluene is listed
toluene is hazardous to the environment (E)

Restrictions for application
Restricted to professional users.

Demands for specific education
No specific requirements.

Additional information
Not applicable.

Chemical safety assessment
No

Sources
OSHA Hazard Communication Standard (29 CFR 1910.1200)

16 Other information

Full text of H-phrases as mentioned in section 3
H302, Harmful if swallowed.
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H360, May damage fertility or the unborn child.
H360Df, May damage the unborn child. Suspected of damaging fertility.
H361, Suspected of damaging fertility or the unborn child.
HHNOC071, Corrosive to the respiratory tract.

The full text of identified uses as mentioned in section 1
None known.

Abbreviations and acronyms
ACGIH = American Conference of Governmental Industrial Hygienists
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service

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CERCLA = Comprehensive Environmental Response Compensation and Liability Act
DOT = Department of Transportation
EINECS = European Inventory of Existing Commercial chemical Substances
EPCRA = Emergency Planning and Community Right-To-Know Act
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HCIS = Hazardous Chemical Information System
HNOC = Hazards Not Otherwise Classified
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NFPA = National Fire Protection Association
NIOSH = National Institute for Occupational Safety and Health
OECD = Organization for Economic Co-operation and Development
OSHA = Occupational Safety and Health Administration
PBT = Persistent, Bioaccumulative and Toxic
RCRA = Resource Conservation and Recovery Act
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SARA = Superfund Amendments and Reauthorization Act
SCL = A specific concentration limit.
STEL = Short-term exposure limits
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TSCA = The Toxic Substances Control Act
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: US-en