UV COLD-FOIL ADHESIVES · FLEXO

UniCure Galaxy UCFA-656OBF

Safety Data Sheet according to Regulation (EC) 1907/2006 (REACH) Annex II and the UN GHS

UV-curable cold-foil adhesive for films

SDS NO.	UF/SDS/UNICURE-GALAXY-UCFA-6
REVISION	01
ISSUE DATE	September 2026
STATUS	Preliminary issue
PRODUCT TYPE	UV cold-foil adhesive

PRELIMINARY ISSUE
Prepared from the Technical Data Sheet and the hazard profile of the product family. Composition, classification and transport data must be verified against the formulation by Uniform Industries before external distribution.

01 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product identifier	UniCure Galaxy UCFA-656OBF
Product type	UV cold-foil adhesive
Relevant identified uses	Industrial use: UV-curable cold-foil adhesive for films – industrial printing and converting
Uses advised against	Consumer use. Direct food contact. Any use not described in the Technical Data Sheet.
Supplier	Uniform Industries, E-105, GNEPIP Industrial Area Site-5, Greater Noida, Uttar Pradesh 201306, India · +91-8750051884 · sales@ufindustries.com
Emergency telephone	+91-8750051884 (office hours). National poison centre: see local directory.

02 HAZARDS IDENTIFICATION

Classification (Regulation (EC) 1272/2008, CLP)	Skin Irrit. 2, H315 · Eye Irrit. 2, H319 · Skin Sens. 1, H317 · Aquatic Chronic 3, H412
Signal word	Warning
Pictogram	GHS07 (exclamation mark)
Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P261 Avoid breathing vapour/mist. P264 Wash hands thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves, protective clothing and eye protection. P302+P352 IF ON SKIN: wash with plenty of soap and water. P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing. P333+P313 If skin irritation or rash occurs: get medical advice. P501 Dispose of contents and container to a licensed waste contractor.
Other hazards	Uncured product is a skin sensitiser: repeated contact can cause allergic contact dermatitis. Once fully UV-cured the film is inert. Not classified PBT/vPvB. Contains no endocrine-disrupting substances at or above 0.1 % to the supplier's knowledge.

03 COMPOSITION / INFORMATION ON INGREDIENTS

Mixture. Free-radical UV-curable UV cold-foil adhesive based on acrylate oligomers and monomers with a photoinitiator package. Composition ranges are typical for this product family and are given for hazard communication. The formulation-specific SDS with substance identities and CAS numbers is issued by Uniform Industries on request under confidentiality.

Component class	Typical content	Typical classification (CLP)
Acrylate oligomers (urethane, epoxy, polyester or polyether acrylates)	40 – 70 %	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1

Component class	Typical content	Typical classification (CLP)
Acrylate monomers (di- and tri-functional acrylates, e.g. TPGDA, DPGDA, TMPTA-type)	10 – 40 %	Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; Aquatic Chronic 2/3
Photoinitiators (Type I / Type II; low-extractable or polymeric grades; TPO-free)	2 – 8 %	Grade-dependent; may include Aquatic Chronic 2/3
Pigments, matting agents, waxes, silica, additives	0 – 30 %	Not classified (inorganic / organic pigments)
Amine synergist (where used)	0 – 5 %	Skin Irrit. 2; Eye Irrit. 2

04 FIRST-AID MEASURES

Inhalation	Move to fresh air. If discomfort persists, obtain medical attention.
Skin contact	Wipe off with a dry cloth, then wash thoroughly with soap and plenty of water. Do NOT use solvent or thinner. Remove contaminated clothing and wash before re-use. If irritation or rash develops, obtain medical advice.
Eye contact	Rinse immediately with plenty of water for at least 15 minutes, holding the eyelids open. Remove contact lenses if easy to do. Obtain medical attention.
Ingestion	Rinse mouth. Do not induce vomiting. Obtain medical attention.
Most important symptoms	Skin and eye irritation; possible allergic skin reaction (sensitisation) after repeated contact.
Notes for the physician	Treat symptomatically.

05 FIRE-FIGHTING MEASURES

Extinguishing media	Foam, dry powder, carbon dioxide, water spray. Do not use a full water jet.
Specific hazards	Combustible liquid: flash point above 100 °C. Combustion produces carbon monoxide, carbon dioxide and acrid acrylic fumes. Heated closed containers may rupture; uncontrolled polymerisation generates heat.
Advice for fire-fighters	Wear self-contained breathing apparatus and full protective clothing. Cool exposed containers with water spray.

06 ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear nitrile gloves, eye protection and protective clothing. Ensure ventilation. Avoid contact with skin and eyes. Keep away from UV light and daylight, which cure the spilled product.
Environmental precautions	Do not allow to enter drains, watercourses or soil.
Containment and clean-up	Contain with inert absorbent (sand, earth, vermiculite). Collect into a closed, labelled container for disposal. Clean the area with a suitable UV wash and detergent. Small residues may be cured under a UV lamp and disposed of as cured solid.

07 HANDLING AND STORAGE

Handling	Avoid skin and eye contact. Provide local exhaust at the print or coating unit and at the UV lamp housing (ozone). Use dedicated wash-up materials. Never use solvent to clean skin. Shield the unit and containers from stray UV and daylight.

Storage	Store in the original, tightly closed, UV-opaque (black HDPE) containers in a cool, dry, dark place below 25 °C; do not exceed 32 °C for weeks or 35 °C for days. Keep away from oxidising agents, peroxides and radical initiators. Do not decant into clear containers.
Specific end use	Printing ink / coating for industrial UV printing processes. See the Technical Data Sheet.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits	No product-specific limits established. Component limits, where they exist, are stated on the formulation-specific SDS.
Engineering controls	Adequate general ventilation plus local exhaust at the application unit and lamp housing. Ozone from medium-pressure mercury lamps must be exhausted to outside air.
Hand protection	Nitrile rubber gloves (minimum 0.4 mm; breakthrough time > 480 min for incidental contact). Change gloves at once if contaminated. Barrier cream may be used in addition to, never instead of, gloves.
Eye protection	Safety glasses with side shields or chemical goggles where splashing is possible.
Skin protection	Apron or long-sleeved work clothing; launder contaminated clothing before re-use.
Respiratory protection	Not normally required with adequate ventilation. Use an organic-vapour filter (type A) if mists or vapours are generated.
UV radiation	Never look at an operating lamp or expose skin to stray UV; shielding and interlocks must be in place.

09 PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Remark
Physical state	Liquid	
Appearance	Brownish clear liquid	Visual
Odour	Mild, characteristic acrylate	
pH	Not applicable	
Flash point	> 100 °C	Closed cup
Flammability	Not flammable; combustible	
Relative density	1.05 – 1.20	20 – 27 °C
Viscosity	700 mPa·s (cP) (Brookfield, as supplied)	
Solubility in water	Insoluble	
Solids / non-volatile content	100 %	
VOC content	100 % solids; no added solvents and no VOC emission on cure.	
Vapour pressure / density	Negligible	
Auto-ignition temperature	Not determined	
Explosive / oxidising properties	None	

10 STABILITY AND REACTIVITY

Reactivity	Polymerises on exposure to UV light, daylight, heat or radical initiators.

Chemical stability	Stable under the recommended storage conditions (dark, below 25 °C, closed UV-opaque container).
Hazardous reactions	Uncontrolled polymerisation generates heat and may rupture closed containers.
Conditions to avoid	UV and daylight, heat above 35 °C, contamination.
Incompatible materials	Peroxides and radical initiators, strong oxidising agents, strong acids and bases.
Hazardous decomposition products	On combustion: carbon oxides, acrylic fumes.

11 TOXICOLOGICAL INFORMATION

Acute toxicity	Based on available data for the components, the classification criteria are not met.
Skin corrosion / irritation	Irritating to skin (H315).
Serious eye damage / irritation	Irritating to eyes (H319).
Respiratory / skin sensitisation	May cause an allergic skin reaction (H317). Not a respiratory sensitiser.
Germ cell mutagenicity, carcinogenicity, reproductive toxicity	Not classified. The product is free from TPO (reclassified reprotoxic 1B in 2025) and contains no CMR substances at or above the classification thresholds to the supplier's knowledge.
STOT – single / repeated exposure	Not classified.
Aspiration hazard	Not classified.

12 ECOLOGICAL INFORMATION

Ecotoxicity	Harmful to aquatic life with long lasting effects (H412), based on component data.
Persistence and degradability	Not readily biodegradable (polymer / oligomer components).
Bioaccumulative potential	Low (high molecular weight components).
Mobility in soil	Low; the product is a viscous liquid.
PBT / vPvB assessment	Not PBT / vPvB.
Other adverse effects	None known. Do not discharge to drains or watercourses.

13 DISPOSAL CONSIDERATIONS

Uncured product, contaminated absorbent, wash-up residues and empty but wet containers are chemical waste (EWC 08 03 12* waste ink containing hazardous substances) and must be disposed of through a licensed contractor in accordance with local and national regulations. Where permitted, small quantities may be cured under a UV lamp and the cured solid disposed of as non-hazardous industrial waste (EWC 08 03 13). Do not discharge to drains.

14 TRANSPORT INFORMATION

UN number	Not assigned
UN proper shipping name	Not applicable – not classified as dangerous goods for transport (ADR / RID / IMDG / IATA)
Transport hazard class	None
Packing group	None
Environmental hazards	Not a marine pollutant
Special precautions	Protect from light and heat in transit; do not exceed 35 °C for days.

15 REGULATORY INFORMATION

Topic	Status
REACH (EC) 1907/2006	Formulated with raw materials registered, pre-registered or exempt under REACH. No substance of very high concern (SVHC, candidate list) is intentionally added above 0.1 % w/w – statement available on request.
CLP (EC) 1272/2008	Classified and labelled as stated in section 2 (family classification; verify against formulation).
EuPIA Charter on raw material selection	Raw materials assessed against the EuPIA Charter (2026), which replaces the EuPIA Exclusion Policy. Heavy-metal pigments, named solvents and hazardous plasticisers excluded.
Photoinitiators	Free from TPO (2,4,6-trimethylbenzoyl-diphenylphosphine oxide) and ITX. Composition statement available on request under confidentiality.
Food contact	Not designed for food packaging; standard photoinitiator package. Use only behind a functional barrier and confirm migration compliance for the pack.
Heavy metals	Pigments free from lead, cadmium, mercury and hexavalent chromium (RoHS 2011/65/EU; EN 71-3 statement on request).
VOC	100 % solids; no added solvents and no VOC emission on cure.
Chemical safety assessment	Not carried out for the mixture.

16 OTHER INFORMATION

Full text of H-statements: H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects. EUH208 Contains sensitising substance; may produce an allergic reaction.

Abbreviations: CLP – Classification, Labelling and Packaging; PBT – persistent, bioaccumulative, toxic; STOT – specific target organ toxicity; TWA – time-weighted average; EWC – European Waste Catalogue.

This Safety Data Sheet was prepared by Uniform Industries technical service from the product's Technical Data Sheet and the hazard profile of its product family. It describes the safety requirements of the product and does not constitute a guarantee of properties. It is the user's responsibility to ensure that the information is appropriate for the intended use. This preliminary issue must be verified against the formulation before external distribution. Revision 01 – first issue in the new format.