

721V0477

SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier: KS-477
Other Name: IR-Assisted Gloss UV Coating for Konica
Recommended use of the chemical and restrictions on use:
UV Printing

Manufacturer: Kustom Group
Address: 3 Carbon Way, Richwood, KY 41094
Telephone Number: 859-485-8600
Emergency phone number: 859-485-8600

2. HAZARD(S) IDENTIFICATION

Classification:
GHS Classification: Skin Irritant 2, Eye Irritant 2, STOT RE 2, Skin Sensitizer 1

Label Elements

Signal word: Warning

Symbol(s)



Hazard statement(s)

H315-Causes Skin Irritation.
H319-Causes Serious eye irritation.
H317-May cause an allergic skin reaction.
H373: May cause damage to organs to liver and kidney through prolonged or repeated exposure.

Precautionary statement(s)

P261-Avoid breathing dust/fume/gas/mist/ vapors/spray.
P280-Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/attention
P302+P352: IF ON SKIN: Wash with plenty of water/...
P333+P313: If skin irritation or rash occurs: Get medical/advice/attention.
P272: Contaminated work clothing should not be allowed out of the workplace.

P308+P313: IF exposed or concerned: Get medical advice/attention.
P501-Dispose of contents/container in accordance with local/regional/national/ International regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

For Mixtures:

Chemical name	CAS No. and other unique identifiers	Concentration
Bisphenol A Diacrylate	55818-57-0	20-30%
Monomer	15625-89-5	10-20%
Monomer	13048-33-4	30-40%
Methyldiethanolamine	105-59-9	5-10%
Benzophenone	119-61-9	5-10%

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

4. FIRST-AID MEASURES

Inhalation: Not expected to be a hazard due to low volatility under standard conditions. Inhalation of mist or vapor may cause irritation of respiratory tract.

Skin contact: Remove contaminated clothing and wash contact area with soap and water and flush with lukewarm water for 15 minutes. Pay particular attention to hair, nose, ears and other areas not easily cleaned. If sticky, a waterless cleaner may be used. Obtain emergency medical attention.

Eye contact: Flush with plenty of water for at least 20-30 minutes. Retract eyelids often. Obtain emergency medical attention if pain, blinking, tears or redness persist.

Ingestion: If appreciable quantities have been swallowed, seek medical attention. DO NOT INDUCE VOMITING! Obtain emergency medical attention.

Most important symptoms/effects, acute and delayed: Causes skin and eye irritation. May cause allergic skin reaction.

Indication of immediate medical attention and special treatment, if necessary: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: Use dry chemical, foam, carbon dioxide, water spray or water fog.

Specific hazards arising from the chemical: High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during runaway polymerization.

Special protective equipment and precautions for fire-fighters: Do not enter fire area without proper protection. See Section 10 – Stability and Reactivity. Fight fire from a safe distance/protected location.

Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Water may be ineffective in firefighting due to low solubility. Use water spray/fog for cooling. Pressure relief system may plug with solids, increasing risk of overpressure. Notify authorities if liquid enters sewer/public waters.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Spilled or released material may polymerize and release heat/gases. Extinguish all ignition sources and ventilate the area. Wear protective equipment during clean-up. Soak up small spill with inert solids (such as vermiculite, clay) and sweep/shovel into vented disposal container. Wash spill area with a strong detergent and water solution; rinse with water but minimize water use during clean-up.

Environmental precautions: Dike and recover large spill. For spills on water, contain, minimize dispersion and collect. Dispose/report per regulatory requirements.

Methods and materials for containment and cleaning up: Provide adequate ventilation during clean-up. Dispose of absorbed material in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling: Pouring, material transfer and processing of this material do not require heating. However, product may be heated to 140F for not more than 24 hours. Overheating may compromise product quality and/or result in an uncontrolled hazardous polymerization. If product freezes, heat as indicated above and mix gently to redistribute the inhibitor. Product should be consumed in its entirety after heating/melting to avoid multiple “re-heats” which may affect product quality or result in product degradation. The product’s inhibitors require the presence of dissolved oxygen. Maintain, at a minimum, the original headspace in the product container and do not blanket or mix with oxygen-free gas as it renders the inhibitor ineffective. Ensure air space (oxygen) is present during heating/melting. Avoid prolonged (longer than shelf-life) storage temperatures above 100F. Store in tightly closed containers in a properly vented storage area away from heat, sparks, open flame, strong oxidizers, radiation, and other initiators. Prevent contamination by foreign materials. Prevent moisture contact. Use only non-sparking tools and limit storage time. Shelf life is 6 months from receipt. Maintain bulk storage temperatures between 60-80F.

Conditions for safe storage, including any incompatibilities: Containers should be stored away from heat. Keep containers tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines:

Proprietary Mixture	OSHA PEL	None Established
	ACGIH TLV	None Established

Appropriate engineering controls: Safety Showers, eyewash stations and adequate ventilation. If handling results in aerosol or vapor generation, local exhaust ventilation is recommended.

Individual protection measures, such as personal protective equipment:

Respiratory protection: If exposure exceeds the occupational exposure limit, use NIOSH/MSHA approved respiratory protection equipment as specified in the NIOSH/OSHA 1981 occupational health guidelines for

chemical hazards. If this material is handled at elevated temperature or under mist forming conditions, NIOSH/MSHA approved respiratory protection equipment should be used.

Skin protection: Impervious gloves (neoprene) must be worn. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Remove gloves immediately after use. Wash hands with soap and water.

Eye protection: Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles or vapor. Contact lenses should not be worn.

Other: Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use "Good Manufacturing Practices" when using this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): Viscous Liquid
Odor: Slight Acrylic

Odor threshold: Not determined	pH: Not determined
Melting point/freezing point: Not determined	Initial boiling point and boiling range: > 300°F
Flash point: > 200°F	Evaporation rate: Slower than butyl acetate
Flammability (solid, gas): Non-flammable	
Flammable limits: LEL: Not applicable	UEL: Not applicable
Vapor pressure: Not determined	Vapor density: Heavier than air.
Relative density: >1.0	Solubility(ies): Not determined
Partition coefficient: n-octanol/water: Not determined	Auto-ignition temperature: Not applicable
Decomposition temperature: Not determined	Viscosity: Not determined

10. STABILITY AND REACTIVITY

Reactivity: Normally stable but will react with light and heat.

Chemical stability: Normally stable but may unstable with removal of inhibitor

Possibility of hazardous reactions: No hazardous reactions when store and handled according to instructions. This product is chemically stable.

Conditions to avoid: High temperatures, localized heat sources (i.e. drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing, and inert gases, storage > 140°F, loss of dissolved air, loss of polymerization inhibitor, contamination with incompatible materials.

Incompatible materials: Polymerization initiators, including peroxides, strong oxidizing agents, strong reducers, free radical initiators, oxygen scavengers, copper, copper alloys, carbon steel, iron, rust, nickel, cobalt, strong bases, ultraviolet light and/or sunlight.

Hazardous decomposition products: Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

11. TOXICOLOGICAL INFORMATION

Acute effects of exposure:

Inhalation: Respiratory Tract irritation hazard
Ingestion: Slight ingestion hazard
Skin contact: Skin irritant
Eye contact: Severe eye irritant

Chronic effects: Possible risk to liver or kidney.

Numerical measures of toxicity: Not determined

Carcinogenicity: Not a carcinogen by IARC, NTP or OSHA

12. ECOLOGICAL INFORMATION

Ecotoxicity: No Data Available
Persistence and degradability: No Data Available
Bioaccumulative potential: No Data Available
Mobility in soil: No Data Available
Other adverse effects: No Data Available

13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind, or expose containers to heat, flame, spark, or other sources of ignition. Contaminated packaging may exhibit hazards.

14. TRANSPORT INFORMATION

UN number: Not Regulated
UN proper shipping name: Not Regulated
Transport hazard classes(es): Not Regulated
Packing group, if applicable: Not Regulated

Environmental hazards: Not Regulated

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not Regulated

Special precautions: Unknown

15. REGULATORY INFORMATION

Safety, health, and environmental regulations specific for the product in question.

CERCLA:

SARA Hazard Category (311/312):

Pursuant to Section 311/312 of SARA Title III, the physical and health

hazard categories for this product are identified below:

Fire Hazard:	NO
Sudden Release of Pressure Hazard:	NO
Reactivity Hazard:	YES
Immediate (Acute) Health Hazard:	YES
Delayed (Chronic) Health Hazard:	YES

SARA 313: This product does not contain any substance listed in Section 313 at or above the de minimis level.

EPA TSCA Inventory: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

California (Proposition 65)	This product does contain a component or components known to the state of California to cause cancer or reproductive toxicity.
Benzophenone	119-61-9 < 7%
Toluene	108-88-3 <0.03%

16. OTHER INFORMATION

**Hazardous Material
Information System
(U.S.A.)**

Health : 2
Fire : 1
Reactivity : 2
Personal Protection: D

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200 or OSHA 2012 Hazcom Standard, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program.

SDS Revision History:

Date of preparation: 04/17/2015

Date of last revision: 04/17/2015

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. The Kustom Group shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.