

SAFETY DATA SHEET (SDS)
Section 1. Identification

Product identifier	UVCLEAR 075
Other means of identification	FCL-075
Recommended use and restrictions on use	UV screen printing inks and varnishes
Initial supplier identifier	Aria Inks. 101-1079, rue des Forges, Terrebonne, QC, J6Y 0J9 (Canada) Tél. (450) 966-9000
Emergency telephone number/restriction on use	Canada – CANUTEC Number 24 hours 613-996-6666

Section 2. Hazard Identification

Classification of hazardous product (name of the category or subcategory of the hazard class)
Acute toxicity, oral (Category 4) Skin corrosion/irritation (Category 2) Skin sensitisation (Category 1B) Serious eye damage/eye irritation (Category 2A) Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3) Reproductive toxicity (Category 2) Hazardous to the aquatic environment acute hazard (Category 2) Hazardous to the aquatic environment short/long term hazard (Category 3)
Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)


Warning

H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction
 H319 Causes serious eye irritation
 H335 May cause respiratory irritation
 H361 May damage fertility or the unborn child
 H401 Toxic to aquatic life
 H412 Harmful to aquatic life with long lasting effects

Prevention

P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P264 Wash hands/nails/face/eyes thoroughly after handling. P270 Do not eat, drink or smoke when using this product P271 Use only outdoors or in a well ventilated area P272 Contaminated work clothing should not be allowed out of the workplace P273 Avoid release to the environment P280 Wear gloves/protective clothing/gloves/eye protection/face protection.

Response

IF SWALLOWED: P301 + P312 call a POISON CENTER if you feel unwell. P330 Rinse mouth.
 IF ON SKIN: P302+P352 Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice attention. P362 + P364 Take off contaminated clothing and wash it before reuse.
 IF INHALED: P304 + P340 Remove person to fresh air and keep comfortable for breathing. P312 call a POISON CENTER if you feel unwell.
 IF IN EYES: P305 + P351 + P338 Rinse cautiously with water. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention.
 IF EXPOSED OR CONCERNED: P308 + P313 Get medical advice/attention

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

Disposal

P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Other hazards known	None
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Section 3. Composition/Information on Ingredients

Chemical name (common name/synonyms)	CAS number or other	Concentration (%)*
Acrylic Oligomer	-----	30 - 60 %
Acrylated Monomer	-----	10 - 20 %
Glycol Ether Acrylated Monomer	-----	10 - 30 %
Photoinitiator		
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide)	75980-60-8	< 10 %
2-Hydroxy-2-methyl-1-phenyl-propan-1-one	7473-98-5	< 15 %

*Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s)

Section 4. First-Aid Measures			
Inhalation	IF INHALED: If overexposure remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration or give oxygen by trained personnel. If symptoms persist, seek medical attention.		
Ingestion	IF SWALLOWED: Immediately call a doctor. Do NOT induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing.		
Skin contact	IF ON SKIN: Remove contaminated clothing, wash immediately with soap and water (20 - 30 minutes). If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse. Discard or decontaminate footwear before reuse.		
Eye contact	IF IN EYES, Rinse cautiously with water for several minutes (20 - 30 minutes). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.		
Most important symptoms and effects (acute or delayed)	Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May damage fertility or the unborn child.		
Indication of immediate medical attention/special treatment	In all cases, call a doctor. Do not forget this document.		
Section 5. Fire-Fighting Measures			
Specific hazards of the hazardous product (hazardous combustion products)			
Carbon monoxide and dioxide, nitrogen oxides, acrid fumes and smoke.			
Suitable and unsuitable extinguishing media			
In case of fire: Use Carbon dioxide, dry chemical, foam, water spray, water.			
Special protective equipment and precautions for fire-fighters			
During a fire, irritating/toxic fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment as required.			
Section 6. Accidental Release Measures			
Personal precautions, protective equipment and emergency procedures			
Evacuate non-emergency personnel. Isolate the area and prevent access. Control source of the leak. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8). Prevent the spill spread into drains, sewers, water supplies, or soil. Eliminate all ignition sources (no smoking, flares, sparks or flames) in immediate area. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.			
Methods and materials for containment and cleaning up			
Avoid prolonged exposure. Stop leak if you can do it without risk. Spill should be contained with inert material and disposed into suitable retaining area. Do not touch or walk through spilled material. Small volumes of liquid may be contained or absorbed into an appropriate absorbent. Keep away from all watercourses. Do not flush down storm or sanitary sewer. Take precautionary measures against static discharges. Dispose of in accordance with local, provincial and federal regulations.			
Section 7. Handling and Storage			
Precautions for safe handling			
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands/nails/face/eyes thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear gloves/protective clothing/gloves/eye protection/face protection.			
Conditions for safe storage, including any incompatibilities			
Store in a cool, well-ventilated area. Keep container closed when not in use. Do not handle or store near open flames, heat or other sources of ignition. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labeled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks. Storage temperature: 15 - 27 °C.			
Section 8. Exposure Controls/Personal Protection			
Control parameters (biological limit values or exposure limit values and source of those values)			
Exposure limits: ACGIH – TLV-TWA Not available			
Appropriate engineering controls			
Use product in well-ventilated areas. Do not spray the product. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Supply emergency safety/quick-drench shower, eyewash station and washing facilities available in work area and near handling area. Where such systems are not effective, wear suitable personal protection equipment which performs satisfactorily and meets recognized standards.			
Individual protection measures/personal protective equipment			
Gloves: Neoprene gloves or equivalent; Clothing: use suitable protective clothing to prevent any possibility of skin contact; Respiratory: Not required if working area is well ventilated. Use a NIOSH approved respirators if the exposure limits are unknown; Equipment: Safety glasses, chemical resistant. Special instructions for protection and hygiene: Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use. Educate and train employees in the safe use and handling of this product. Follow all label instructions.			
Section 9. Physical and Chemical Properties			
Appearance, physical state/colour	Liquid	Vapour pressure	Not available

Odour	Slightly acrylic odour	Vapour density	Not available
Odour threshold	Not available	Relative density	Not available
pH	Not available	Solubility	Insoluble
Melting/freezing point	Not available	Partition coefficient - n-octanol/water	Not available
Initial boiling point/range	Not available	Auto-ignition temperature	Not available
Flash point	> 100 °C (212 °F)	Decomposition temperature	Not available
Evaporation rate	Not available	Viscosity	Not available
Flammability (solids and gases)	Not available	VOC	Not available
Upper and lower flammability/explosive limits	Not available	Other	None known
Section 10. Stability and Reactivity			
Reactivity			
Stable under normal conditions.			
Chemical stability			
Yes, Stable under the recommended storage and handling conditions prescribed.			
Possibility of hazardous reactions			
Non under normal conditions of storage and use.			
Conditions to avoid (static discharge, shock or vibration)			
Heat and sun light; the product must be stored in a dry and dark area; the temperature must not exceed 27° C.			
Incompatible materials			
Avoid contact with strong oxidizing agents, peroxides or other polymerisation initiators, strong acid or bases, metallic powders or pigments.			
Hazardous decomposition products			
Carbon mono and dioxide, nitrogen oxides, other toxic fumes.			
Section 11. Toxicological Information			
Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)			
Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May damage fertility or the unborn child.			
Symptoms related to the physical, chemical and toxicological characteristics			
No specific information available.			
Delayed and immediate effects (chronic effects from short-term and long-term exposure)			
Skin Sensitization – May cause allergic skin reaction. Respiratory Sensitization – May cause severe respiratory system irritation; Germ Cell Mutagenicity – Not available; Carcinogenicity – Not available; Reproductive Toxicity – Not available; Specific Target Organ Toxicity — Single Exposure – Not available; Specific Target Organ Toxicity — Repeated Exposure – Not available; Aspiration Hazard – No data available; Health Hazards Not Otherwise Classified – No data available.			
Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀)			
Acrylic Oligomer LD ₅₀ Oral – No data; LD ₅₀ Dermal – Rat >5000 mg/kg; LC ₅₀ Inhalation – No data; CAS 75980-60-8 LD ₅₀ Oral – Rat 5000 mg/kg; LD ₅₀ Dermal – Rat 2000 mg/kg; LC ₅₀ Inhalation – Not data ³ ; CAS 7473-98-5 LD ₅₀ Oral – Rat 1694 mg/kg; LD ₅₀ Dermal – Rat 6929 mg/kg; LC ₅₀ Inhalation – Not data; ATE not available in this document.			
Section 12. Ecological Information			
Ecotoxicity (aquatic and terrestrial information)			
Fish toxicity CAS: 75980-60-8: LC50: ~ 6.53 mg/L (Oryzias latipes, 48h); CAS: 7473-98-5: LC50: 160 mg/L (Leuciscus idus (Golden orfe), 48h)			
Invertebrate toxicity Acrylic Oligomer EC50 1 – 10 mg/l (48h, Daphnia magna); CAS: 75980-60-8: EC50: 3.53 mg/L (48h, Daphnia magna); CAS: 7473-98-5: EC50 >119 mg/L (48h, Daphnia magna).			
Aquatic plant and Algae toxicity CAS: 7473-98-5: EC50: 1.95 mg/L (Desmodesmus subspicatus 72h)			
Persistence and degradability CAS: 75980-60-8: Water degradation (%) 70-80: 14 days; CAS: 7473-98-5: Water degradation (%) 90-100: 28 days.			
Bioaccumulative potential CAS: 75980-60-8: (BCF: ~22 – 32, Freshwater fish; CAS: 7473-98-5: Bioaccumulation is unlikely.			
Mobility in soil No data available			
Other adverse effects Harmful to aquatic life with long lasting effects.			
Section 13. Disposal Considerations			
Information on safe handling for disposal/methods of disposal/contaminated packaging			
Dispose of contents/container into safe container in accordance with local, regional or national regulations.			
Section 14. Transport Information			
UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations			
Non regulated			
UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)			
Non regulated			
UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)			
Non regulated			
Special precautions (transport/conveyance) None			

Environmental hazards (IMDG or other)	None
Bulk transport (usually more than 450 L in capacity)	None
Section 15. Regulatory Information	
Safety/health Canadian regulations specifics	This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).
Environmental Canadian regulations specifics	Refer to Section 3 for ingredient(s) of the DSL
Safety/health/environmental outside regulations specifics	
United States OSHA information: This product is regulated according to OSHA (29 CFR).	
United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14.	
United States TCSA information: Refer to the ingredients listed in Section 3.	
California Proposition 65: This product does not contain an ingredient known to the State of California to cause cancer or other reproductive harm	
Section 16. Other Information	
Date of the latest revision of the safety data sheet	September 07, 2018 - version 01
References	Safety Data Sheets from manufacturer/supplier & from Sigma-Aldrich.com & Echa.europea.eu
Abbreviations	
ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute toxicity estimate
CAS	Chemical Abstract Service
DSL	Domestic Substance List
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC	Lethal concentration
LD	Lethal Dosage
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit
TDG	Transport of dangerous goods in Canada
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System
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