

## **SAFETY DATA SHEET (SDS) Section 1. Identification** UV CLEAR 085 Product identifier Other means of identification FCL-085 **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) 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 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 instruction 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. 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 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 Stored locked up Disposal P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations... Other herends known None

Other hazards F	known None					
Section 3. Composition/Information on Ingredients						
Chemical name (common name/synonyms)		CAS number or other	Concentration (%)*			
Glycol Ether Acrylated Monomers			10 - 30 %			
Acrylated Monomer			20 - 50 %			
Oxybis(methyl-2, 1-ethanediyl) diacrylate		57472-68-1	5-20 %			
Photoinitiator			1 - 20 %			
2-Methyl-4'-(methylthio)-2- morpholinopropiophenone		71868-10-5	1 - 10 %			
Resine			20 - 40%			
*Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s)						
Section 4. First-Aid Measures						
Inhelation	IF INHALED. If overexposure remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial					

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 personne	el. If symptoms persist, seek med	cal attention.	
Ingestion			ent aspiration of vomit. Rinse mouth thoroughly	
	with water. Never give anything by mouth if t	he victim is rapidly losing consci	ousness, 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				
Lyc contact	IF IN EYES, Rinse cautiously with water for several minutes (20 - 30 minutes). Remove contact lenses, if present and easy do. Continue rinsing. If eye irritation persists: Get medical attention.			
Most important symptoms and effects (acute or delayed)		Causes skin irritation. May cau	se an allergic skin reaction. Causes serious eye y irritation. May damage fertility or the unborr	
		child.		
Indication of in	nmediate medical attention/special treatment	In all cases, call a doctor. Do no Fire-Fighting Measures	ot forget this document.	
Specific hazard	s of the hazardous product (hazardous combu	0 0		
	le and dioxide, nitrogen oxides, acrid fumes and s			
	isuitable extinguishing media	silone.		
	Jse Carbon dioxide, dry chemical, foam, water sp	rav water		
	ive equipment and precautions for fire-fighters			
	ritating/toxic fumes may be generated. Do not ent		tion. Firefighters should wear proper protective	
	Section 6. Ac	cidental Release Measures		
	utions, protective equipment and emergency p			
personnel only.	nergency personnel. Isolate the area and prevent a All persons dealing with clean-up should wear the water supplies, or soil. Eliminate all ignition source	e appropriate protective equipment	nt (See Section 8). Prevent the spill spread into	
	t static discharges. All equipment used when han			
material.	a state discharges. The equipment used when half	uning the product must be ground	ed. Do not touch of wark through spined	
	naterials for containment and cleaning up			
	l exposure. Stop leak if you can do it without risk	. Spill should be contained with i	nert material and disposed into suitable retaining	
	ch or walk through spilled material. Small volume			
	urses. Do not flush down storm or sanitary sewer.	Dispose of in accordance with loca		
Precautions for		. Handling and Storage		
	instruction before use. Do not handle unti	l all safety precautions have	been read and understood Avoid breathing	
dust/fume/gas/m Contaminated	hist/vapors/spray. Wash hands/nails/face/eyes work clothing should not be allowed out of eye protection/face protection.	thoroughly after handling. Use	only outdoors or in a well ventilated area	
	safe storage, including any incompatibilities			
Store in a cool, ignition. Store a	well-ventilated area. Keep container closed whe way from incompatible materials (Section 10). ge area should be clearly identified, clear of obst	Inspect all incoming containers	to make sure they are properly labeled and no	
or leaks. Storage	e temperature: 15 - 27 °C.			
		re Controls/Personal Protect		
	eters (biological limit values or exposure limit	values and source of those value	es)	
	ACGIH – TLV-TWA Not available			
	gineering controls			
contaminants be	well-ventilated areas. Do not spray the product. low exposure limits. Supply emergency safety/qu	iick-drench shower, eyewash stat	ion and washing facilities available in work area	
meets recognize			n equipment which performs satisfactorily and	
	ection measures/personal protective equipmen			
CT	n gloves or equivalent; Clothing use suitable p		imits are unknown; Equipment: Safety glasses	
required if work				
required if work chemical resista	nt. Special instructions for protection and hygier	e: Wash hands/nails/face thorou		
required if work chemical resista when using this	nt. Special instructions for protection and hygier product. Practice good personal hygiene after u	he: Wash hands/nails/face thorou sing this material. Remove and w	wash contaminated work clothing before re-use	
required if work chemical resista when using this	nt. Special instructions for protection and hygier product. Practice good personal hygiene after u n employees in the safe use and handling of this p	e: Wash hands/nails/face thorou sing this material. Remove and v product. Follow all label instruction	vash contaminated work clothing before re-use	
required if work chemical resista when using this Educate and trai	nt. Special instructions for protection and hygier product. Practice good personal hygiene after u n employees in the safe use and handling of this p	te: Wash hands/nails/face thorou sing this material. Remove and v product. Follow all label instruction ical and Chemical Propertie	vash contaminated work clothing before re-use	
required if work chemical resista when using this Educate and trai Appearance, pl	nt. Special instructions for protection and hygier product. Practice good personal hygiene after u n employees in the safe use and handling of this p Section 9. Phys	te: Wash hands/nails/face thorou sing this material. Remove and v product. Follow all label instruction ical and Chemical Propertie	wash contaminated work clothing before re-use ons. s	
required if work chemical resista when using this Educate and trai Appearance, pl Odour Slight Odour threshol	nt. Special instructions for protection and hygier product. Practice good personal hygiene after us n employees in the safe use and handling of this p Section 9. Phys nysical state/colour Liquid or paste (thixotro ly acrylic odour d Not available	the: Wash hands/nails/face thorousing this material. Remove and woroduct. Follow all label instruction instruction in the second	wash contaminated work clothing before re-use ons. s Not available	
required if work chemical resista when using this Educate and trai Appearance, pl Odour Slight	nt. Special instructions for protection and hygier product. Practice good personal hygiene after us n employees in the safe use and handling of this p Section 9. Phys nysical state/colour Liquid or paste (thixotro ly acrylic odour d Not available	he: Wash hands/nails/face thorou sing this material. Remove and v product. Follow all label instruction ical and Chemical Propertie opic) Vapour pressure Vapour density Relative density Solubility Insolu	vash contaminated work clothing before re-use ons. s Not available Not available Not available Not available	



<b>T</b> 1/1 <b>T</b> 1/1 <b>T</b> 1/1 <b>T</b>					
<b>Initial boiling point/range</b> Not available	Auto-ignition temperature     Not available       Descent orition     Not available				
Flash point > 100 °C (212 °F)	Decomposition temperature     Not available       Vieweite     Net enrichtle				
Evaporation rate     Not available       Flammability (solids and gases)     Not available	Viscosity     Not available       VOC     Not available				
Upper and lower flammability/explosive limits     Not available	VOC     Not available       Other     None known				
Section 10. Stabilit					
Reactivity					
Stable under normal conditions.					
Chemical stability					
Yes, Stable under the recommended storage and handling conditions prescrib	bed.				
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 te	emperature must not exceed 27 °C.				
Incompatible materials					
Avoid contact with strong oxidizing agents, peroxides or other polymerisat	ion initiators, strong acid or bases, metallic powders or pigments.				
Hazardous decomposition products					
Carbon mono and dioxide, nitrogen oxides, other toxic fumes.					
Section 11. Toxicolog	0				
Information on the likely routes of exposure (inhalation, ingestion, skir					
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 character	ristics				
No specific information available.					
<b>Delayed and immediate effects (chronic effects from short-term and low</b> Skin Sensitization – May cause allergic skin reaction. Respiratory Sensitization					
Germ Cell Mutagenicity – Not available; Carcinogenicity – Not available;					
Specific Target Organ Toxicity — Single Exposure – Not available; Specific					
Aspiration Hazard – May cause respiratory sensitization; Health Hazards N					
Numerical measures of toxicity (ATE; LD <sub>50</sub> & LC <sub>50</sub> )					
Glycol Ether Acrylated Monomer LD <sub>50</sub> Oral – Rat 6800 mg/kg; LD <sub>50</sub> Derr	mal – Rabbit >2000 mg/kg; LC <sub>50</sub> Inhalation – Rat 4hr No data;				
Acrylated Monomer LD <sub>50</sub> Oral – Rat >5000 mg/kg; LD <sub>50</sub> Dermal – Rabbit					
LD <sub>50</sub> Oral – Rat 3530 mg/kg; LD <sub>50</sub> Dermal – Rabbit >2000 mg/kg; LC <sub>50</sub> In	halation – Rat 4hr No data; ATE not available in this document.				
Section 12. Ecologi	ical Information				
Ecotoxicity (aquatic and terrestrial information)					
<b>Fish toxicity</b> Glycol Ether Acrylated Monomer LC50 >4,6 to 10 mg/l (Go					
LC50 1 - 10 mg/l (Fresh water 96h); CAS 57472-68-1 LC50 1 - 10 mg/l (	Fresh water 96h); CAS: 71868-10-5: LC50: 9 mg/L ( (Zebra fish),				
96h); Invertebrate toxicity Glycol Ether Acrylated Monomer EC50 89 mg/l (43	8h Water Elea (Danhnia magna): CAS 57472 68 1 EC50 10 100 mg/				
(Water Flea (Daphnia magna) 48h; CAS: 71868-10-5: EC50: 15 mg/L (Da					
Aquatic plant and Algae toxicity Glycol Ether Acrylated Monomer EC50 Test Statique 65,9 mg/L (Green algse (Scenedesmus subspicatus					
72h); Acrylated Monomer EC50 Test Growth Inhibition 1 - 10 mg/L (Alg					
mg/L (Algae 72h); CAS: 71868-10-5: IC50: 1.7 mg/L (Green algae 72h)					
Persistence and degradability CAS: 71868-10-5: Result: 0-1% - No	ot readily biodegradable in 28 days				
Bioaccumulative potential Not available					
Mobility in soil Not available					
Other adverse effects     Toxic to aquatic life. 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					
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 C	Canadian regulations specifics This product has been classified in accordance with the hazard criteria of the Hazardous Product				
-	Regulations (HPR).				
Environmental Canadian regulations specifics Refer to Section 3 for ingredient(s) of the DSL					
Safety/health/er	nvironmental outside regulations specifics				
United States OS	SHA 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.					
	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.eurpea.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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