

SAFETY DATA SHEET (SDS)
Section 1. Identification
Product identifier UV CLEAR PE/PP*R*
Other means of identification FCL-108A
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 irritation (Category 2)
Skin sensitisation (Category 1B)
Eye irritation (Category 2A)
Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3)
Reproductive toxicity (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         H315 Causes skin irritation         H317 May cause an allergic skin reaction         H319 Causes serious eye irritation         H335 May cause respiratory irritation         H361 Suspected of damaging fertility or the unborn child         H412 Harmful to aquatic life with long lasting effects         Prevention         P101 Obtain gravital instructions before use P202 Do not bendle until all sofety presentions have been read and understand P261 Augid benching
<ul> <li>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. 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.</li> <li><b>Response</b></li> <li>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</li> </ul>
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/doctor 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

ENVIRONMENT P391 Collect spillage

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.

 None

Section 3. Composition/Information on Ingredients					
Chemical name	(common name/synonyms)	CAS number or other	Concentration (%)*		
Oligomer			30 - 70 %		
Blend of Acryla	ated Monomer		< 40 %		
Glycol ether Ac	crylated Monomer		< 15 %		
Photoinitiator					
Diphenyl(2,4,6	-trimethylbenzoyl)phosphine oxide	75980-60-8	< 10 %		
*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. Administer oxygen or artificial				
	respiration as needed. If symptoms persist, get medical attention.				
Ingestion	IF SWALLOWED: Prevent aspiration of vomit. Do not give anything by mouth to an unconscious person. If symptoms persist, seek				



	medical attention.						
Skin contact							inutes). If skin irritation: Get
	medical attention. Dis	scard or wash contaminate	ed clothing befo	re reuse. If symptoms per	sist, get m	edical atte	ention.
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 irritations persist: Get medical attention.						
Most important					an allergic	c skin re	action. Causes serious eye
			ay cause respiratory irri			f damaging fertility or the	
Indication of im	mediate medical atten	tion/special treatment		call a doctor. Do not forge	t this docu	ment	
Indication of his	inculate inculcul atten			ting Measures	t tins doed	intent.	
Specific bezorde	of the hezerdous prov	duct (hazardous combus		ing measures			
•	•			1			
		$(CO_2)$ , nitrogen oxides, ad	crid fumes and s	smoke.			
	suitable extinguishing						
		), dry chemical, foam, wa					
		autions for fire-fighters					<u> </u>
During a fire, irri as required.	itating/toxic fumes may	be generated. Do not ente	er fire area with	out proper protection. Fire	efighters sł	hould wear	r proper protective equipment
D				Release Measures			
		ment and emergency pr		ourse of the lool- Err	alaan '		ad hay trained a
All persons deal		ld wear the appropriate p					ed by trained personnel only. Id into drains, sewers, water
	aterials for containmen						
			Spill should be a	contained with inert materi	al and disr	osed into	suitable retaining area. Small
volumes of liquid	I may be contained or al	osorbed into an appropriat	e absorbent. Ke				lown storm or sanitary sewer.
Dispose of in acc	ordance with local, provi	incial and federal regulatio					
		Section	n 7. Handling	g and Storage			
Precautions for							
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. Use only outdoors or in a well ventil ated area. Contaminated work							
	not be allowed out of	the workplace. Avoid r	elease to the e	environment. Wear glove	s/protectiv	ve clothin	g/gloves/eye protection/face
protection	· · · · · ·	• • • • • • • • • •					
Conditions for s	afe storage, including	any incompatibilities		(1.11	CI.	1 (	or other sources of ignition.
Store away from area should be	incompatible materials clearly identified, clear	(Section 10). Inspect all	incoming cont	ainers to make sure they	are proper	rly labelle	d and not damaged. Storage r damage or leaks. Storage
temperature: 16 -	· 27 °C.	Section 8 Expo	osure Control	ls/Personal Protection			
Control parame	ters (biological limit v	alues or exposure limit v					
					: Long-ter	m exposu	re limit (8/h TWA) 2ppm.
	gineering controls						
		Do not spray the produ	ict. Local exha	ust ventilation system is	s recomm	ended 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. W standards.	Where such systems are	not effective, wear suita	able personal pr	rotection equipment whic	h perform	is satisfac	torily and meets recognized
	ection measures/person	nal protective equipment	t				
Gloves: Neopren gloves or equivalent; Clothing: Shirts with long sleeves, long pants; 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.							
			hysical and C	hemical Properties			
	ysical state/colour	Liquid		Vapour pressure		available	
Odour Slightly acrylic odour			Vapour density		available		
Odour threshold		Not available		Relative density	Not avai		
pH Not avail				Solubility	Insoluble	e	
Melting/freezing				Partition coefficient - 1			Not available
Initial boiling p	0	Not available		Auto-ignition tempera		Not avail	
Flash point 1	00°C (212°F)			Decomposition temper	ature	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	
	Sec	tion 10. St	tability and Reactivi	ty	
Reactivity			•	*	
Stable under normal conditions.					
Chemical stability					
Yes, Stable under the recommended stora	ge and handling cond	litions prescr	ribed.		
Possibility of hazardous reactions	0 0	•			
None under normal conditions of storage	e and use.				
Conditions to avoid (static discharge,					
Excess heat or direct sunlight. The produ		a dry and da	ark area.		
Incompatible materials					
Strong oxidizing agents, strong acids or	bases, peroxides or o	ther polyme	erisation initiators, meta	llic powders or pigments.	
Hazardous decomposition products	, <b>F</b>	1.7	· · · · · · · · · · · · · · · · · · ·		
Oxides of carbon, nitrogen oxides, smok	e. other potentially to	oxic fumes.			
			xicological Informat	ion	
Information on the likely routes of exp			0	1011	
				use respiratory irritation. Suspected of damaging fertility or	
the unborn child.	rgie skin feaction. Ca	auses seriou	is eye initiation. May ca	use respiratory initiation. Suspected of damaging fertility of	
	mical and taricalasi	ical abarraat	toristics		
<b>Symptoms related to the physical, che</b> No specific information available.	lincal and toxicologi	ical charact	teristics		
1	in officiate frame -1	torm could	long torm or and		
<b>Delayed and immediate effects (chron</b> Respiratory Sensitization – No classified		t-term and	long-term exposure)		
		T		UNTRA COULA Rama descrition Tradicitation No share find.	
				H, NTP or OSHA; Reproductive Toxicity – No classified;	
Aspiration Hazard – No classified; Healt				city — Repeated Exposure – No classified;	
		wise Classi	neu – No uata available	·	
Numerical measures of toxicity (ATE;		hit > 2000 m	na/kaul C Inhalation	- rat no data 4hr; CAS 75980-60-8: LD <sub>50</sub> Oral – Rat 5,000	
mg/kg; LD <sub>50</sub> dermal – rat 2000 mg/kg; L					
$Mg/kg; LD_{50}$ dermal – rat 2000 $Mg/kg; L$ ATE not available in this document.	$\mathcal{L}_{50}$ innalation based	on available	e data the classification	criteria are not met;	
ATE not available in uns document.	Coo	4 12 E		-	
		CUOII 12. E	cological Informatio		
Ecotoxicity (aquatic and terrestrial int		· · · · · ·	(0(1) LO50 - 100		
		iciscus idus	$(90n); LC50 \ge 100 \text{ m}$	ng/l Carp (Cyprinus Carpio) (96h); CAS 75980-60-8:LC50	
~6.53mg/l, Oryzias latipes (Red killifish		doomuo subo	minetus (72h).NOEC-0	.5 mg/l desmodesmus subspicatus (72h); EC50 >=100 mg/l	
Pseudokirchneriella subcapitata (72h);	ueshio	uesinus subs	spicatus (7211),NOEC=0	.5 mg/1 desmodesmus subspicatus (72n), EC50 >=100 mg/1	
	nom EC50-2.6 mg/l	Domhnio m	acona (19h), CAS 7509	0-60-8:EC50 3.53mg/l, Daphnia magna (48h)	
	No data available	– Dapinna n	liaglia (4011), CAS 75960	5-00-8.EC50 5.55mg/1, Dapinna magna (46m)	
9 1		TE. 22 22			
	CAS 75980-60-8:BC CAS 75980-60-8: ins		-4		
Other adverse effects	Harmful to aquatic lit				
			isposal Consideratio	ns	
Information on safe handling for disp					
Dispose of contents/container into safe c			· · ·		
Section 14. Transport Information					
UN number; Proper shipping name; C	Class(es); Packing gr	roup (PG) a	of the TDG Regulation	S	
None regulated					
UN number; Proper shipping name; C	Class(es); Packing gi	roup (PG) a	of the IMDG (maritime	e)	
None regulated					
UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)					
None 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 sp		<u>^</u>	Regulations (HPR).	in accordance with the nazaru cineria of the mazardous	
Environmental Canadian regulations	specifics		Section 3 for ingredient(	s) of the DSL	
Safety/health/environmental outside re				.,	
Sacty nearly on the one of the regulations specifies					



	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.					
	CSA 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 sheetSeptember 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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