

# SAFETY DATA SHEET (SDS)

Section 1. Identification			
Product identifier FL1			
Other means of identification   FFL1			
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 Hogand Identification			

#### **Section 2. Hazard Identification**

# Classification of hazardous product (name of the category or subcategory of the hazard class)

Acute toxicity, oral and inhalation (Category 4)

Skin corrosion/irritation (Category 2)

Skin sensitisation (Category 1)

Serious eye damage/eye irritation (Category 2A)

Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3)

Reproductive toxicity (Category 1B)

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+H332 Harmful if swallowed, if inhaled.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H360 May damage fertility or the unborn child

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/doctor 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/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

# 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				
Section 3. Composition/Information on Ingredients				
Chemical name (common name/synonyms)	CAS number or other	Concentration (%)*		
Acrylic Oligomer		< 30 %		
Glycol Ether Acrylated Monomers		< 10 %		
Vinyl Monomers		< 10 %		
Acrylated Monomer		15 - 50 %		
Photoinitiator				
2-Methyl-4'-(methylthio)-2-morpholinopropiophenone	71868-10-5	< 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. If not breathing, give artificial	
	respiration or give oxygen by trained personnel. If symptoms persist, seek medical attention.	



Ingestion	gestion IF SWALLOWED: Immediately call a doctor. Rinse mouth thoroughly with water. Never give anything by mouth to an		
	unconscious person.		
Skin contact	IF ON SKIN: Remove contaminated clothing and shoes without delay. 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	Most important symptoms and effects (acute or delayed) Harmful if swallowed, if inhaled. 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 im	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: 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: Neopren 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						
Appea	Appearance, physical state/colour Liquid or paste (thixotropic)			Vapour pre	ssure	Not available
Odour Slightly acrylic odour		Vapour den	sity	Not available		
Odour threshold Not available Relative density Not available				Not available		
pH Not available		Solubility	Insolu	ble		



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)	<b>Decomposition temperature</b> 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)

Excess heat and sun light.

## **Incompatible materials**

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, if inhaled. 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 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 – May cause irritation to respiratory track, difficulty breathing; Health Hazards Not Otherwise Classified – No data available.

# Numerical measures of toxicity (ATE; LD<sub>50</sub> & LC<sub>50</sub>)

CAS 71868-10-5  $LD_{50}$  Oral - Rat -male and female- 1984 mg/kg;  $LD_{50}$  Dermal - Rat -male and female >2000 mg/kg;  $LC_{50}$  Inhalation No data available; Acrylic Oligomer:  $LD_{50}$  Oral - Rat >2000 mg/kg;  $LD_{50}$  Dermal - Rabbit >2000 mg/kg;  $LC_{50}$  Inhalation - Rat >5mg/L 4h; ATE not available in this document.

# **Section 12. Ecological Information**

# **Ecotoxicity (aquatic and terrestrial information)**

Fish toxicity CAS: 71868-10-5:semi-static test LC50: 9 mg/L (Danino rerio(Zebra fish), 96h); Acrylic Oligomer LC50 >= 100 mg/l (Brachydanio rerio - 96h); LC50 28.5 mg/l (Oncorhychus mykiss - 96h)

Invertebrate toxicity CAS: 71868-10-5:semi-static test: EC50: 15.3 mg/L (Daphnia magna (water flea) 24h); Acrylic Oligomer EC50 > = 100 mg/l (48h, Water Flea (Daphnia magna)

**Aquatic plant and Algae toxicity** CAS: 71868-10-5: Growth inhibition EC50: 1.6 mg/L (Desmodesmus subspicatus (Scenedesmus subspicatus) 72h); Acrylic Oligomer EC50 > 0.17 mg/L (Pseudokirchneriella subspicatus 96h); EC50 > 0.04 mg/L (Desmodesmus subspicatus 72h).

Toxicity to bacteria CAS: 71868-10-5: Respiration inhibition EC50: >100 mg/L (Sludge Treatment 30 min).

**Persistence and degradability** CAS: 71868-10-5: Result: 1% - Not readily biodegradable.

**Bioaccumulative potential** No data available.

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

No regulated

# UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)

No regulated

# UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)

No regulated

Special precautions (transport/conveyance)	None
Environmental hazards (IMDG or other)	None

Bulk transport (usually more than 450 L in capacity)

None.



Safety/health Canadian regulations specifies   Regulations (HPR).    Environmental Canadian regulations specifies   Refer to Section 3 for ingredient(s) of the DSL    Safety/health/environmental outside regulations specifies   United States CSHA information: This product is regulated according to OSHA (29 CFR).    United States CSHA 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 & Sections 12; 13 & 14.    United States TCSA information: Refer to the ingredient known to the State of California to cause cancer or other reproductive harm    **Technology					
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