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Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name Rapid Black

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended uses Printing operations

1.3 Details of the supplier of the safety data sheet

#16-20 Wertheim Crt. Richmond Hill,
ON L4B 3A8

Telephone: +1 905 482 3106
Fax: 905 482 3107

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Classification (CHIP): Irritant

Main Health Hazard: Not expected to present any hazards to health under normal conditions of expected use.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Component/ Chemical Name	%	CAS-No	EEC No	Hazard Symbol	Risk Phrases
Lactic Acid Ethyl Ester	55-60	687-47-8	211-694-1	St. Andrew Cross	R41
Cyclohexamone	20-30	108-94-1	200-631-1	St. Andrew Cross	R10, R20
Metal Complex Dye	> 10	-	-	N	R51/53

R10 = Flammable; R20=Harmful by inhalation; R41 = Risk of serious damage to the eyes; R51/53 = Toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.

The remaining ingredients do not present a health hazard within the meaning of the EC/CHIP2 regulations.

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Move casualty to fresh air immediately. If there is respiratory distress, give oxygen and seek medical attention.
Skin Contact	Wash affected area with soap and water
Eye Contact	Rinse immediately with copious amounts of water. If redness or soreness persists, seek medical advice
Ingestion	DO NOT induce vomiting. Encourage the casualty to drink water to dilute in stomach. Avoid alcoholic drinks as this will enhance toxic. Seek medical advice.
Do not use	

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	Hives
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4.3 Indication of any immediate symptoms and effects, both acute and delayed

Note to Physician	Treat symptomatically. May cause sensitization of susceptible persons. Use of epinephrine may be indicated.
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Section 5. FIRE FIGHTING MEASURES**5.1 Flammability**

Flammable

5.2 Combustion products

Oxides of Carbon

5.3 Extinguishing Media

Water spray, dry powder, carbon dioxide or vaporizing liquids

Do not use:	Water Jet
Measures:	

Section 6. ACCIDENTAL RELEASE MEASURES

Shut off all sources of ignition and wear protective clothing. Mop or soak up small spills onto paper. Absorb large spills with inert material such as sand and remove to a safe place for disposal. Flush contaminated area with area with plenty of water.

Dispose of in accordance with Local Authority Regulations

Section 7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Handling	Avoid contact with skin and eyes. Avoid inhaling vapour
Fire Prevention	Keep away from all sources of ignitions. No smoking.
Storage	Normal cool warehouse conditions. Keep in closed container.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection	Keep work area well ventilated
Eye and Skin protection	Wear safety glasses and gloves if splashing is likely

Occupational Exposure Limits

Substance listed in EH40/92	Long term (8 Hrs)	Short term
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	ppm	mg/m ³	Ppm	mg/m ³
Lactic Acid Ethyl Ester	Not assigned by HSE (1) ACGIH (2)	30		
Cyclohexanone	25	100	100	400

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Important health, safety, and environmental information

Physical State	Coloured Liquid	Color	No information available
Appearance	No information available	Odor Threshold	No information available
Odor	No information available		

Property	Values	Remarks * Method
pH	Not applicable	
Melting point/freezing point	No information available	
Boiling point/Boiling Range	~ 154 °C	
Flash Point	~ 53°C	Seta Closed Cup
Evaporation rate	No information available	
Flammability (solid. Gas)	No information available	
Flammability Limit in Air		
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapor Pressure	~ 2.2 mm HG	
Vapor Density	~ 3.8 (Air = 1)	
Density	~ 1.0 gm/cm ³	
Specific Gravity	No information available	
Water Solubility	Partially Soluble in Water	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition Temperature	405 °C	
Decomposition Temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive Properties	Lower 1.8% / upper 12 %	
Oxidizing Properties	No information available	

Section 10. STABILITY AND REACTIVITY

10.1 Chemical Reactivity

No known

10.2 Decomposition products

None

10.7 Materials/conditions to avoid

Avoid all sources of heat and ignition

Section 11. TOXICOLOGY INFORMATION

Acute Toxicity

Lactic Acid Ethyl Ester: LD50/oral/rat
>5000mg/kg

Cyclohexanone: LD50/oral/rat 1620mg/kg

Section 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Component or Chemical Name

Lactic Acid Butyl Ester	Readily biodegradable; Bio-accumulation unlikely, hydrolyses in presence of water, acids, bases EC50/48h/Daphnia = 683mg/L LC50/48h/Fish = 350mg/L EC50/Algae = 2200mg/L
Cyclohexanone	Practically non-toxic to living resources LC50 (96hr) = 100-1000mg/L No evidence of bioaccumulation or training of seafood


Section 13. DISPOSAL CONSIDERATIONS

Consult Local Authority for approved method of disposal

Section 14. TRANSPORT CONSIDERATIONS

UN-No	UN1210
Proper shipping name	Printing Ink, Flammable
IMDG code	
ICAO/IATA class	3
Marine pollutant	
Packing Group	III
RID/ADR	ADR Item (5b)
IMDG class	3.2
Hazard warning sign	Flammable Liquid

Section 15. REGULATORY INFORMATION

CHIP labelling		Symbol: St. Andrews Cross	Hazard: Irritant Risk Phrases: R10, R20, R41 Safety Phrases: S16, S23	Contains: Lactic Acid ethyl ester & Cyclohexanone
Other suggested labelling	R10 = Flammable; R20 = Harmful inhalation; R41 = Risk of serious eye damage; S16 = keep away from source of ignition – no smoking; S23 = do not breathe fumes			

Section 16. OTHER INFORMATION

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Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Date Sheet
