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# SAFETY DATA SHEET

## **SECTION 1. IDENTIFICATION**

Product identifier used on the la	bel	
	: Black	
Product Code(s)	: SBK-1312	
Recommended use of the chemi	ical and restrictions on use	
Chemical family	<ul> <li>Printing Ink</li> <li>Use pattern :Professional Use Only</li> <li>Mixture</li> </ul>	
Name, address, and telephone n supplier: Quest Inks & Coatings	umber of the	Name, address, and telephone number of the manufacturer: Refer to supplier
2401 Anson Drive Mississauga, ON, Canada L5S 1G1 Supplier's Telephone #	: 905-405-0041 Monday to Friday 8:00 am to 4:30 pm	
24 Hr. Emergency Tel #	: For 24-hour emergency assistance, c	all: 1-613-996-6666 (CANUTEC).

## SECTION 2. HAZARDS IDENTIFICATION

#### **Classification of the chemical**

Black, viscous liquid. Solvent odor.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Flammable Liquids - Category 2 Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory) Sensitization, skin - Category 1

#### Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

Highly flammable liquid and vapour May cause an allergic skin reaction. May cause drowsiness and dizziness. May cause respiratory irritation.

Precautionary statement(s)

Keep away from heat, sparks and open flame. - No smoking. Keep container tightly closed. Ground and bond container and receiving equipment.

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Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapours. Contaminated work clothing must not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam for extinction.

Store locked up. Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Other hazards

Other hazards which do not result in classification:

Ingestion may cause irritation of the mouth, throat and stomach. Contact with eyes may cause irritation. May cause mild skin irritation.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

	Common name and synonyms		
Cyclohexanone	Cyclohexanone	108-94-1	75.00
SECTION 4. FIRST-A			
Ingestion	: IF SWALLOWED: Immediately call a F induce vomiting. Rinse mouth thorou to an unconscious person. If vomiting o lowered (forward) to reduce the risk of	ughly with water. Never	give anything by mouth

Inhalation	: Immediately remove person to fresh air. If breathing has stopped, give artificial
	respiration. If breathing is difficult, give oxygen by qualified medical personnel only.
	Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	: Wash affected areas with soap and water. Take off contaminated clothing and wash
	hefere revise. Out medical attention if initation develope and persists

# Eye contactbefore re-use. Get medical attention if irritation develops and persists.Eye contact: Flush with large amounts of water for 15 minutes. Remove contact lenses if present<br/>and easy to do. If irritation or symptoms develop, seek medical attention.

#### Most important symptoms and effects, both acute and delayed

: May cause central nervous system depression. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. May cause respiratory irritation. Symptoms may include coughing, choking and wheezing. May cause an allergic skin reaction. Symptoms may include redness, itching and swelling. Direct skin contact may cause temporary redness. Direct eye contact may cause temporary redness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. This product is a CNS depressant.

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## SECTION 5. FIRE-FIGHTING MEASURES

SECTION 5. TIME HOHITIN	i illiberilb
Extinguishing media	
Suitable extinguishing media	
0 0	: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
Unsuitable extinguishing med	dia ,
	: Do not use a solid water stream as it may scatter and spread fire.
Special hazards arising from the	he substance or mixture / Conditions of flammability
Flammability classification (OS	<ul> <li>Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapour can travel considerable distance and flashback to a source of ignition. Vapours are heavier than air and collect in confined and low-lying areas.</li> <li>SHA 29 CFR 1910 106)</li> </ul>
	: Flammable Liquids - Category 2
Hazardous combustion produc	
nazardous combustion produc	: Carbon dioxide and carbon monoxide. Other unidentified organic compounds .
Special protective equipment	and precautions for firefighters
Protective equipment for fire-	
	: Firefighter should wear full protective clothing including self contained breathing apparatus.
Special fire-fighting procedures	
	: Evacuate personnel to safe areas. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Dike for water control. Avoid release to the environment.
SECTION 6. ACCIDENTAL	RELEASE MEASURES
	ve equipment and emergency procedures
Environmental precautions	<ul> <li>All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.</li> <li>Ensure spilled product does not enter drains, sewers, waterways, or confined spaces</li> </ul>
Methods and material for conta	For large spills, dike the area to prevent spreading.
	: Remove all sources of ignition. Ventilate the area. Prevent further leakage or spillage if
	safe to do so. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities.
Snacial snill response procedu	Iros

Special spill response procedures

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802). Cyclohexanone (5000 lbs / 2270 kg)

## SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

: Use only outdoors or in a well-ventilated area. Wear suitable protective equipment. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Keep away from heat and open flames. - No smoking. Use only non-sparking tools. Use explosionproof electrical/ventilating/lighting/equipment. Keep away from oxidizing agents. Keep away from incompatibles. Label containers appropriately. Wash thoroughly after handling. Keep containers closed when not in use. Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.

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Conditions for safe storage	Keep away from heat, sparks and open flame No smoking. Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Keep cool. Keep container tightly closed.Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.			
Incompatible materials	: Strong oxidizers (e.g. Chlorine, Peroxides, etc.).			
SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION				

## **Exposure Limits:**

			OSHA PEL		
Chemical Name	ACGIH TLV		PEL		
	TWA				
		<u>STEL</u>		<u>STEL</u>	
Cyclohexanone	50 ppm	N/Av	50 ppm (200 mg/m³)	N/Av	

# Exposure controls

# Ventilation and engineering measures

	: Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value.
Respiratory protection	: Respiratory protection is required if the concentrations exceed the TLV. Use a NIOSH approved dust respirator if dust levels exceed exposure limits. Seek advice from respiratory protection specialists.
Skin protection	: Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye / face protection	: Chemical goggles must be worn to prevent dusts from entering the eyes.
Other protective equipment	: Wear appropriate protective clothing to prevent skin contact, such as coveralls or long sleeved shirt, long pants, and shoes and socks. Wear protective gloves. An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.
General hygiene considerations	
	: Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

<b>SECTION 9. PHYSICAL AN</b>	D CHEMICAL PROPERTIES
Appearance	: Viscous Black liquid.
Odour	: Solvent odor.
Odour threshold	: 18-32 ppm
рН	: No information available.
Melting/Freezing point	: Not available.
Initial boiling point and boiling	
	: Not available.
Flash point	: 44°C
Flashpoint (Method)	: closed cup
Evaporation rate (BuAe = 1)	: No information available.
Flammability (solid, gas)	: Not applicable.
Lower flammable limit (% by v	ol.)
	: Not available.
Upper flammable limit (% by v	ol.)
	: Not available.
Oxidizing properties	: None known.
Explosive properties	Not explosive
Vapour pressure	: 3 mm Hg
Vapour density	3.4

# Edging Black

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Relative density / Specific gravity:

Solubility in water Other solubility(ies) Partition coefficient: n-octanol/w	:	Not available. Insoluble. No information available. r or Coefficient of water/oil distribution Not available.		
Auto-ignition temperature	:	Not available.		
Decomposition temperature	:	No information available.		
Viscosity	:	1200		
Volatiles (% by weight)	-			
Volatile organic Compounds (VOC's) :675 g/L				
Absolute pressure of container	:	N/Ap		
Flame projection length	:	N/Ap		
Other physical/chemical commer	nts:	No additional information.		

SECTION 10. STABILITY AND REACTIVITY		
Reactivity	: Not normally reactive.	
Chemical stability	: Stable under normal conditions.	
Possibility of hazardous read	<ul><li>Hazardous polymerization does not occur.</li></ul>	
Conditions to avoid	<ul> <li>Keep away from heat, direct flame and other ignition sources. Do not use in areas without adequate ventilation. Keep away from direct sunlight. Avoid contact with incompatible materials.</li> </ul>	
Incompatible materials Hazardous decomposition pr	: Strong oxidizers (e.g. Chlorine, Peroxides, etc.). roducts	
	: None known, refer to hazardous combustion products in Section 5.	

# SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation	:YES
Routes of entry skin & eye	:YES
Routes of entry Ingestion	:YES
Routes of exposure skin absorption	:NO

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# **Potential Health Effects:**

## Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation	:	May cause respiratory tract wheezing.	t irritation. Symptoms may incl	ude coughing, choking and	
Sign and symptoms ingestion					
Sign and symptoms skin	:	Ingestion may cause gastro May cause mild skin irritation	pintestinal irritation, nausea, vo on on prolonged contact.	omiting and diarrhea.	
Sign and symptoms eyes	:	Direct eye contact may cau	ise slight redness.		
Potential Chronic Health Effect	ts				
	:	Prolonged exposure can ca dermatitis and sensitization	ause redness, swelling, itching 1.	, cracking of the skin,	
Mutagenicity	:	Not expected to be mutage			
Carcinogenicity		•	as carcinogens by ACGIH, IAI	RC, OSHA or NTP.	
Reproductive effects & Terato	-	•	n na na duatius affasta		
	-	Not expected to have other	r reproductive effects.		
Sensitization to material	:	1910.1200) (Hazcom 2012 Regulations) (WHMIS 2015	as hazardous under U.S. OSH. ) and Canadian WHMIS regul 5). Classification: Skin sensitiz expected to be a respiratory se	ations (Hazardous Products ation - Category 1 May cause	
Specific target organ effects	:	1910.1200) (Hazcom 2012 Regulations) (WHMIS 2015 Specific target organ toxicit	as hazardous under U.S. OSH. ) and Canadian WHMIS regul 5). Classification: ty, single exposure Category 3 d dizziness. May cause respir	ations (Hazardous Products	
•• •• ••			s not classified as specific targ	get organ toxicant, repeated exp	osure.
Medical conditions aggravate	-	overexposure Pre-existing skin, eye and res	spiratory disorders		
		Te-existing skin, eye and rea			
Synergistic materials		No information available.			
Toxicological data		here is no available data for elow for individual ingredient	the product itself, only for the t acute toxicity data.	ingredients. See	
		LC50(4hr)	LD	50	
Chemical name		inh, rat	(Oral, rat)	<u>(Rabbit, dermal)</u>	
Cyclohexanone		2650 ppm (vapour)	1500 mg/kg	1 000 mg/kg	
				1	

Other important toxicological hazards

: See Section 2 for additional information.

# SECTION 12. ECOLOGICAL INFORMATION

:

Ecotoxicity

The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

See the following tables for individual ingredient ecotoxicity data.

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Ecotoxicity data:

		Toxicity to Fish				
Ingredients	CAS No	LC50 / 96h	NOEC / 21 day	M Factor		
Cyclohexanone	108-94-1	> 527 mg/L	N/Av	None.		

Ingredients	CAS No	Toxicity to Daphnia			
		EC50 / 48h	NOEC / 21 day	Factor	
Cyclohexanone	108-94-1	820 mg/l	N/Av	None.	

# Persistence and degradability

		:	No data is available on the product itself.
<b>Bioaccumulation potential</b>	:		No data is available on the product itself.

<u>Components</u>	Partition coefficent n-octanol/Water (log Kow)	Bioconcentration factor (BCF)				
Cyclohexanone	Very low	n/av				
Mobility in soil	: This material has low solubility and floats, and is expected to migrate from water to the land.					

Other Adverse Environmental effects : No data is available on the product itself.

# SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal	Handle waste according to recommendations in Section 7. Empty containers may cont hazardous residues.	ain
Methods of Disposal	Dispose in accordance with all applicable federal, state, provincial and local regulations	3.
RCRA	If this product, as supplied, becomes a waste in the United States, it may meet the crite a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of waste generator to determine the proper waste identification and disposal method.	

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label		
TDG	UN1210	PRINTING INK	3	III	3		
TDG Additional information	eveneding 20 kg (66 neurode) green man						

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49CFR/DOT	UN1210	PRINTING INK	3	111	3		
49CFR/DOT Additional information	Limited Quantity exemption may be used if product is in containers or 5 Litres or less, per Section 173.150 of 49 CFR						
Special precautions for user : Appropriate advice on safety must accompany the package.							

Environmental hazards : See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : This information is not available.

# **SECTION 15 - REGULATORY INFORMATION**

## **US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: S 372, Specific To Toxic Chemical	
Cyclohexanone	108-94-1	Yes	5000 lb/ 2270 kg	None.	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Acute Health Hazard Fire Hazard

#### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	Californi	a Proposition 65		State	"Right to	o Know" Li	ists	
ingredients	CA3 #	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Cyclohexanone	108-94-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

All ingredients are present on the DSL. WHMIS Classification: See Section 2.

#### International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Cyclohexanone	108-94-1	205-500-4	Present	Present	(2)-726	KE-00047	Present	HSR001041
SECTION 16 OTHER INFORMATION								

## SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of

1980

CFR: Code of Federal Regulations

**CNS: Central Nervous System** 

DOT: Department of Transportation

EPA: Environmental Protection Agency

EINECS: European Inventory of Existing Commercial chemical Substances

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	IARC: International Agency for Research on Cancer
	IBC: Intermediate Bulk Container
	IMDG: International Maritime Dangerous Goods
	Inh: Inhalation
	LC: Lethal Concentration LD:
	Lethal Dose N/Ap: Not
	Applicable
	N/Av: Not Available
	NIOSH: National Institute of Occupational Safety and Health
	NTP: National Toxicology Program
	OSHA: Occupational Safety and Health Administration
	PEL: Permissible exposure limit
	RCRA: Resource Conservation and Recovery Act
	RTECS: Registry of Toxic Effects of Chemical Substances
	SARA: Superfund Amendments and Reauthorization Act
	STEL: Short Term Exposure Limit
	TDG: Canadian Transportation of Dangerous Goods Act & Regulations
	TLV: Threshold Limit Values
	TWA: Time Weighted Average
	WHMIS: Workplace Hazardous Materials Identification System
References :	1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &
	Biological Exposure Indices for 2015.
	2. International Agency for Research on Cancer Monographs, searched 2015 3.
	Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2015 (Chempendium, HSDB and RTECs).
	4. Material Safety Data Sheets from manufacturer.
	5. US EPA Title III List of Lists - 2015.
	6. California Proposition 65 List - 2015
Preparation Date (mm/dd/yyyy)	
	03/05/2019
Other special considerations for h	andling
	Describe a description information, instruction, and training for an excitant

## : Provide adequate information, instruction and training for operators.

## Prepared by:

Quest Inks& Coatings 2401 Anson Drive Mississauga, ON L5S 1G1 905-405-0041 www.questinks.com

## DISCLAIMER

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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