

1 L Black Ink

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 - Product identifier

Trade name/designation 1 L Black Ink

Chemical name

Product-type Mixture

Product code K26

UFI: M3M5-U0QM-N00V-NATS

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

1.3 - Details of the supplier of the safety data sheet

Southern Technology Ltd
2A Birmingham Drive, Middleton
Christchurch 8024, New Zealand
Phone: 03 3899258
southern.tech.co.nz

1.4 - Emergency telephone number

Emergency 111, New Zealand Poisons Centre 0800 764 766

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 2	Flammable liquids, Category 2
Eye Irrit. 2	Eye irritation - Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Acute Tox. 4 Inhalation	Acute toxicity (inhal.), Category 4
STOT SE 1	Specific target organ toxicity — single exposure, Category 1

2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains: butanone, ethyl methyl ketone (CAS No.: 78-93-3)

Signal word : Danger

Hazard pictograms



Hazard statements

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H319	Causes serious eye irritation
H371	May cause damage to organs
H412	Harmful to aquatic life with long lasting effects

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Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground/bond container and receiving equipment.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust, fume, gas, mist, vapours, spray .
P280	Wear protective gloves, protective clothing, eye protection, face protection .

EUH-phrases

EUH066	Repeated exposure may cause skin dryness or cracking
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2.3 - Other hazards

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No	%	Class(es)	Specific concentration limit
butanone, ethyl methyl ketone	CAS No. : 78-93-3 Index No. : 606-002-00-3 EC No. : 201-159-0 REACH No. : 01-2119457290-43-XXXX	60 - 70	Eye Irrit. 2 - H319 Flam. Liq. 2 - H225 STOT SE 3 (H336) - H336	Not applicable
methanol	CAS No. : 67-56-1 Index No. : 603-001-00-X EC No. : 200-659-6 REACH No. : 01-2119433307-44	1 - 10	Acute Tox. 3 Dermal - H311 Acute Tox. 3 Inhalation - H331 Acute Tox. 3 Oral - H301 Flam. Liq. 2 - H225 STOT SE 1 - H370	STOT SE 1 - H370 : 10<=%<=100 STOT SE 2 - H371 : 3<=%<10

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Chemical name	No	%	Class(es)	Specific concentration limit
reaction mass of: tert-alkyl(C12-C14)ammonium bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-chromate(1-), tert-alkyl(C12-C14)ammonium bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]-chromate(1-), tert-alkyl(C12-C14)ammonium bis[1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenolato(2-)]-chromate(1-), tert-alkyl(C12-C14)ammonium [[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-chromate(1-), tert-alkyl(C12-C14)ammonium [[1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenolato(2-)]-1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-chromate(1-), tert-alkyl(C12-C14)ammonium ((1-(4(or 5)-nitro-2-oxidophenylazo)-2-naphthalenolato(1-(3-nitro-2-oxidophenylazo)-2-naphthalenolato))chromate(1-)	CAS No. : 117527-94-3 Index No. : 611-044-00-0 EC No. : 403-720-7 REACH No. : 01-2012008112367-0000	1 - 10	Aquatic Chronic 2 - H411	Not applicable

SECTION 4: First aid measures

4.1 - Description of first aid measures

<u>Following inhalation</u>	- Provide fresh air. - Get medical advice/attention.
<u>Following skin contact</u>	- After contact with skin, wash immediately with plenty of water and soap. - Remove contaminated, saturated clothing immediately.
<u>After eye contact</u>	- In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
<u>After ingestion</u>	- Do NOT induce vomiting. - Get medical advice/attention.

4.2 - Most important symptoms and effects, both acute and delayed

<u>Symptoms and effects - Following inhalation</u>	- Irritating to respiratory system.
<u>Symptoms and effects - Following skin contact</u>	- Causes skin irritation. - Repeated exposure may cause skin dryness or cracking.
<u>Symptoms and effects - After eye contact</u>	- Irritating to eyes.
<u>Symptoms and effects - After ingestion</u>	- The following symptoms may occur: Vomiting

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- Nausea
- central nervous system depression

4.3 - Indication of any immediate medical attention and special treatment needed

- Get medical advice/attention.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

- Suitable extinguishing media
- Carbon dioxide (CO₂)
 - Dry extinguishing powder
 - Extinguishing media
 - alcohol resistant foam
 - Water mist

- Unsuitable extinguishing media
- High power water jet

5.2 - Special hazards arising from the substance or mixture

- Special hazards arising from the substance or mixture
- Vapours are heavier than air.
 - Gases/vapours, toxic
 - Highly flammable

- Hazardous decomposition products
- Carbon dioxide (CO₂)
 - Carbon monoxide

5.3 - Advice for firefighters

- Wear a self-contained breathing apparatus and chemical protective clothing.
- In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel
- Use personal protection equipment.
 - Provide adequate ventilation.
 - Remove all sources of ignition.
 - Evacuate area.

- For emergency responders
- No information available.

6.2 - Environmental precautions

- Do not allow to enter into surface water or drains.
- Absorb spillage to prevent material damage.

6.3 - Methods and material for containment and cleaning up

- Methods and material for containment
- Soak up inert absorbent and dispose as waste requiring special attention.
 - Collect in closed and suitable containers for disposal.

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	- Collect spillage.
<u>Methods and material for cleaning up</u>	- Wash with plenty of water.
<u>Inappropriate techniques</u>	- No information available.
6.4 - Reference to other sections	
- Disposal: see section 13	
- Personal protection equipment: see section 8	

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

<u>Recommendation</u>	- Avoid: Eye contact - Avoid: Skin contact - Provide adequate ventilation. - Keep away from sources of ignition. - No smoking.
<u>Advices on general occupational hygiene</u>	- When using do not eat, drink, smoke, sniff. - Wash contaminated clothing prior to re-use. - Wash hands before breaks and after work.

7.2 - Conditions for safe storage, including any incompatibilities

- Keep container tightly closed in a cool, well-ventilated place.

7.3 - Specific end use(s)

- Keep away from sources of ignition. - No smoking.
- Handle and open container with care.

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

methanol (67-56-1)	
VME ppm (FR)	200 ppm
VME mg/m ³ (FR)	260 mg/m ³

8.2 - Exposure controls

<u>Appropriate engineering controls</u>	- No information available.
<u>Individual protection measures, such as personal protective equipment</u>	- Suitable eye protection: Eye glasses with side protection - Protective gloves



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- Suitable protective clothing: lab coat



SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Liquid	<u>Appearance</u>	Liquid
<u>Colour</u>	Black	<u>Odour</u>	characteristic
Odour threshold		No data available	
pH		No data available	
Melting point		78 °C < V < 80 °C	
Freezing point		No data available	
Boiling point		79 °C	
Flash point		-4 °C	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		No data available	
Upper explosion limit		No data available	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		0,9	
Density		No data available	
Solubility (Water)		insoluble	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents)		No data available	
Log KOC		No data available	
Auto-ignition temperature		404 °C < V < 408 °C	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	

Particle characteristics

Particle size	No data available
Dustiness	No data available
Specific surface area	No data available
Shape	No data available

9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

SECTION 10: Stability and reactivity

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10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- In case of warming: Ignition hazard

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- No information available.

SECTION 11: Toxicological information

11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Acute toxicity (inhal.), Category 4

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- Based on available data, the classification criteria are not met.

Toxicity : Substances

butanone, ethyl methyl ketone (78-93-3)	
LD50 oral (rat)	2193 mg/kg
LD50 dermal (rabbit)	5000 mg/kg

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reaction mass of: tert-alkyl(C12-C14)ammonium
bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-chromate(1-),
tert-alkyl(C12-C14)ammonium
bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]-chromate(1-),
tert-alkyl(C12-C14)ammonium
bis[1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenolato(2-)]-chromate(1-),
tert-alkyl(C12-C14)ammonium
[[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-[1-[(2-hydroxy-5-nitrophenyl)azo]-2-
tert-alkyl(C12-C14)ammonium
[[1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenolato(2-)]-[1-[(2-hydroxy-
tert-alkyl(C12-C14)ammonium ((1-(4(or
5)-nitro-2-oxidophenylazo)-2-naphtholato)(1-(3-nitro-2-oxido-5-pentylphenylazo)-2-naphtholato
(117527-94-3)

LD50 oral (rat)	2000 mg/kg
LD50 dermal (rat)	2000 mg/kg

<u>Skin corrosion/irritation</u>	- Not classified
<u>Serious eye damage/eye irritation</u>	- Eye irritation - Category 2 - Causes serious eye irritation
	- Irritating to eyes.
<u>Respiratory or skin sensitisation</u>	- Not classified
<u>Germ cell mutagenicity</u>	- Not classified
<u>Carcinogenicity</u>	- Not classified
<u>Reproductive toxicity</u>	- Not classified
<u>STOT-single exposure</u>	- Specific target organ toxicity — single exposure, Category 1
<u>STOT-repeated exposure</u>	- Not classified
<u>Aspiration hazard</u>	- Not classified

11.2 - Information on other hazards

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

Toxicity : Substances

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reaction mass of: tert-alkyl(C12-C14)ammonium bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-chromate(1-), tert-alkyl(C12-C14)ammonium bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]-chromate(1-), tert-alkyl(C12-C14)ammonium bis[1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenolato(2-)]-chromate(1-), tert-alkyl(C12-C14)ammonium [[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-[1-[(2-hydroxy-5-nitrophenyl)azo]-2-tert-alkyl(C12-C14)ammonium [[1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenolato(2-)]-[1-[(2-hydroxy-5-nitrophenyl)azo]-2-tert-alkyl(C12-C14)ammonium ((1-(4(or 5)-nitro-2-oxidophenylazo)-2-naphtholato)(1-(3-nitro-2-oxido-5-pentylphenylazo)-2-naphtholato(117527-94-3)

EC50 48 hr crustacea	1000 mg/l
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- The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

12.6 - Endocrine disrupting properties

12.7 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

Waste treatment methods - Dispose of waste according to applicable legislation.

Sewage disposal - No information available.

Special precautions for waste treatment - No information available.

Community or national or regional provisions - No information available.

SECTION 14: Transport information

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14.1 - UN number or ID number

<u>UN number (ADR)</u>	:	UN1210
<u>UN number (RID)</u>	:	UN1210
<u>UN number (ADN)</u>	:	UN1210
<u>UN number (IMDG)</u>	:	UN1210
<u>UN number (IATA)</u>	:	UN1210

14.2 - UN proper shipping name

<u>UN proper shipping name (ADR)</u>	:	PRINTING INK, flammable or PRINTING INK RELATED MATERIAL (including printing ink thinning or reducing compound), flammable (vapour pressure at 50 °C not more than 110 kPa) 640D
<u>UN proper shipping name (RID)</u>	:	PRINTING INK, flammable or PRINTING INK RELATED MATERIAL (including printing ink thinning or reducing compound), flammable (vapour pressure at 50 °C not more than 110 kPa) 640D
<u>UN proper shipping name (ADN)</u>	:	PRINTING INK, flammable or PRINTING INK RELATED MATERIAL (including printing ink thinning or reducing compound), flammable (vapour pressure at 50 °C not more than 110 kPa) 640D
<u>UN proper shipping name (IMDG)</u>	:	PRINTING INK, flammable or PRINTING INK RELATED MATERIAL (including printing ink thinning or reducing compound), flammable (vapour pressure at 50 °C not more than 110 kPa) 640D
<u>UN proper shipping name (IATA)</u>	:	PRINTING INK, flammable or PRINTING INK RELATED MATERIAL (including printing ink thinning or reducing compound), flammable (vapour pressure at 50 °C not more than 110 kPa) 640D

14.3 - Transport hazard class(es)

<u>ADR Transport hazard class(es)</u>	:	3
<u>ADR Classification code:</u>	:	F1
<u>Pictograms</u>		



<u>Transport hazard class(es) (RID)</u>	:	3
<u>Pictograms</u>		



<u>Transport hazard class(es) (ADN)</u>	:	3
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Pictograms



Transport hazard class(es) (IMDG) : 3

Pictograms



Transport hazard class(es) (IATA) : 3

Pictograms



14.4 - Packing group

Packing group : II

Packing group (RID) : II

Packing group (ADN) : II

Packing group (IMDG) : II

Packing group (IATA) : II

14.5 - Environmental hazards

Environmental hazards : No

Marine pollutant : No

14.6 - Special precautions for user

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ADR

<u>ADR Classification code:</u>	:	F1
<u>ADR Special provisions</u>	:	163+ 640D+367
<u>ADR Limited quantity (LQ)</u>	:	5 L
<u>ADR Excepted quantities</u>	:	E2
<u>ADR Packing instructions</u>	:	P001 IBC02 R001
<u>ADR Special packing provisions</u>	:	PP1
<u>ADR Mixed packing provisions</u>	:	MP19
<u>Instructions for portable tanks and bulk containers</u>	:	T4
<u>Special provisions for portable tanks and bulk containers</u>	:	TP1 TP8
<u>ADR tank code</u>	:	LGBF
<u>ADR tanks special provisions</u>	:	
<u>Vehicle for tank carriage</u>	:	FL
<u>ADR Transport category</u>	:	2
<u>ADR Tunnel restriction code</u>	:	D/E
<u>ADR Special provisions loading, unloading and handling</u>	:	
<u>Special provisions - Packages</u>	:	
<u>Special provisions - Bulk</u>	:	
<u>Special provisions - Operation</u>	:	S2, S20
<u>ADR Hazard identification number (Kemler No.)</u>	:	33

RID

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

ADN

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

IMDG

<u>Special provisions</u>	:	
<u>Limited quantity (LQ)</u>	:	5
<u>Excepted quantities</u>	:	E2
<u>Packing instructions</u>	:	P001
<u>Special packing provisions</u>	:	
<u>IBC instruction(s)</u>	:	
<u>IBC provisions</u>	:	
<u>Instructions for portable tanks and bulk containers</u>	:	
<u>Special provisions for portable tanks and bulk containers</u>	:	
<u>EmS codes</u>	:	
<u>Stowage and handling</u>	:	
<u>Segregation</u>	:	
<u>Properties and observations</u>	:	

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IATA

PCA - Excepted quantities	:	E2
PCA - Limited Quantity - Packing Instructions	:	Y341
PCA - Limited Quantity - Maximum Net Quantity per Package	:	1
PCA - Packing Instructions	:	353
PCA - Maximum Net Quantity per Package	:	5
CAO - Packing Instructions	:	364
CAO - Maximum Net Quantity per Package	:	60
Special Provisions	:	
ERG Code	:	

14.7 - Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

15.1 - Safety, health and environmental regulations/legislation specific for the substance or mixture

Substances REACH candidates	None
Substances Annex XIV	None
Substances Annex XVII	methanol (Index No.: 603-001-00-X - EC No.: 200-659-6 - CAS No.: 67-56-1)
VOC content	No data available

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
2,1	01/09/2023		
1	26/01/2018		

Texts of the regulatory sentences

Acute Tox. 3 Dermal	Acute toxicity (dermal) - Category 3
Acute Tox. 3 Inhalation	Acute toxicity (inhalative) - Category 3
Acute Tox. 3 Oral	Acute toxicity (oral) - Category 3
Acute Tox. 4 Inhalation	Acute toxicity (inhal.), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment - Aquatic Chronic 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Eye irritation - Category 2
Eye Irrit. 2A	Eye irritation - Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed

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H302	Harmful if swallowed
H311	Toxic in contact with skin
H319	Causes serious eye irritation
H331	Toxic if inhaled
H336	May cause drowsiness or dizziness
H370	Causes damage to organs
H371	May cause damage to organs
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
STOT SE 3 (H336)	STOT-single exposure - Category 3 (H336)

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