



1 L Black Ink K26

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

1.1. - Product identifier

Trade name 1 L Black Ink
Chemical name
Product-type Mixture
Product code K26 - Hitachi

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 Limited
61 Nursery Road
Phillipstown
Christchurch
Phone +643 389 9258 Fax +643 389 2162
Website www.stinks.co.nz

1.4. - Emergency telephone number Poisons Information 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



1 L Black Ink K26

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
--------	------------------------------------------------------

2.3. - Other hazards

SECTION 3 - Composition/information on ingredients

3.1. - Substances

Not applicable

3.2. - Mixtures

Chemical name	No	%	Class	Spec. concentrations
butanone, ethyl methyl ketone	CAS No. : 78-93-3 Index No. : 606-002-00-3 EC No. : 201-159-0	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	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



1 L Black Ink K26

<p>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)-2hydroxy-3-nitrophenyl]azo]-2naphthalenolato(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-naphtholato)(1-(3-nitro-2-oxido5-pentylphenylazo)-2-naphtholato))chromate(1-)</p>	<p>CAS No. : 117527-94-3 Index No. : 611-044-00-0 EC No. : 403-720-7</p>	<p>1 - 10</p>	<p>Aquatic Chronic 2 - H411</p>	<p>Not applicable</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------	---------------	---------------------------------	-----------------------

SECTION 4 - First aid measures

4.1. - Description of first aid measures

Measures in case of inhalation

- Provide fresh air.
- Get medical advice/attention.

Measures in case of contact with skin

- After contact with skin, wash immediately with plenty of water and soap.
- Remove contaminated, saturated clothing immediately.

Measures in case of contact with eyes

- 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.

Measures in case of ingestion

- Do NOT induce vomiting.
- Get medical advice/attention.



1 L Black Ink K26

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

Symptoms and effects after inhalation - Irritating to respiratory system.

Symptoms and effects after contact with skin - Causes skin irritation.
- Repeated exposure may cause skin dryness or cracking.

Symptoms and effects after contact with eyes - Irritating to eyes.

Symptoms and effects after ingestion - The following symptoms may occur: Vomiting
- 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 - Vapours are heavier than air.
- Gases/vapours, toxic
- Highly flammable

Decomposition products - Carbon dioxide (CO₂)
- Carbon monoxide

5.3. - Advice for firefighters



1 L Black Ink K26

- 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

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

Appropriate clean-up procedures

- Wash with plenty of water.

Inappropriate techniques

- 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

Recommendations

- Avoid: Eye contact
- Avoid: Skin contact
- Provide adequate ventilation.
- Keep away from sources of ignition. - No smoking.



1 L Black Ink K26

Advice on general occupational hygiene

- 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

8.2. - Exposure controls

Appropriate engineering controls

- No information available.

Individual protection measures, such as personal protective equipment

- Suitable eye protection: Eye glasses with side protection



- Protective gloves



- Suitable protective clothing: lab coat



SECTION 9 - Physical and chemical properties

9.1. - Information on basic physical and chemical properties

Physical state

Liquid

Appearance

Liquid

Color

Black

Odor

characteristic



1 L Black Ink K26

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 Kow - Partition coefficient: n-octanol/water	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
9.2. - Other information	
VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

SECTION 10 - Stability and reactivity

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.



1 L Black Ink K26

10.6. - Hazardous decomposition products

- No information available.

SECTION 11 - Toxicological information

11.1. - Information on toxicological effects

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

Toxicity values of 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 values of substances

	butanone, ethyl methyl ketone (78-93-3)
	LD50 oral (rat) 2193 mg/kg
	LD50 dermal (rabbit) 5000 mg/kg
<u>Skin corrosion/irritation</u>	- Not classified
<u>Serious eye damage/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>Specific target organ toxicity - Single exposure</u>	- Specific target organ toxicity — single exposure, Category 1



1 L Black Ink K26

Specific target organ toxicity - Repeated exposure - Not classified

Aspiration hazard - Not classified

SECTION 12 - Ecological information

12.1. - Toxicity

Toxicity values of 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

- 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 Kow - Partition coefficient: n-octanol/water	No data available

- No indication of bioaccumulation potential.

12.4. - Mobility in soil



1 L Black Ink K26

- No information available.

12.5. - Results of PBT and vPvB assessment

12.6. - Other adverse effects

- No information available.

SECTION 13 - Disposal considerations

13.1. - Waste treatment methods

Appropriate methods of waste treatment - 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

14.1. - UN number

UN number (ADR) : UN1210

UN number (RID) : UN1210

UN number (ADN) : UN1210

UN number (IMDG) : UN1210

UN number (IATA) : UN1210

14.2. - UN proper shipping name



1 L Black Ink K26

UN proper shipping name (ADR) : 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

UN proper shipping name (RID) : 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

UN proper shipping name (ADN) : 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

UN proper shipping name (IMDG) : 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

UN proper shipping name (IATA) : 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)



1 L Black Ink K26

ADR Class : 3
ADR Classification code : F1

Pictograms



Class (RID) : 3

Pictograms



Class (ADN) : 3

Pictograms



Class (IMDG) : 3

Pictograms



Class (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



1 L Black Ink K26

ADR

<u>ADR Classification code</u>	:	F1
<u>ADR Special provisions</u>	:	163+ 640D+367
<u>ADR Limited quantities</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 No.</u>	:	33

RID

<u>Special provisions</u>	:	
<u>Limited quantities</u>	:	
<u>Excepted quantities</u>	:	

ADN

<u>Special provisions</u>	:	
<u>Limited quantities</u>	:	
<u>Excepted quantities</u>	:	

IMDG

<u>Special provisions</u>	:	
<u>Limited quantities</u>	:	5
<u>Excepted quantities</u>	:	E2
<u>Packing instructions</u>	:	P001
<u>Special packing provisions</u>	:	

IBC instruction(s) :

IBC provisions :

Instructions for portable tanks and bulk containers :

Special provisions for portable tanks and bulk containers :

EmS codes :



1 L Black Ink K26

Stowage and handling :

Segregation :

Properties and observations :

IATA

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

14.7. - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15 - Regulatory information

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

Components in the list of None Reach candidates

Components in Annex XIV None

Components in Annex XVII None

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 No.	Date of issue	Description of the amendments
1	26/01/2018	

Texts of the regulatory sentences

Acute Tox. 3 Dermal	Acute toxicity (dermal), Category 3
Acute Tox. 3 Inhalation	Acute toxicity (inhal.), 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 — Chronic Hazard, Category 2



1 L Black Ink K26

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
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 or state all organs affected, if known - state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard
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)	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

*** **