

SAFETY DATA SHEET T801K Black Ink

1. Identification

Product identifier

Product name T801K Black Ink

Product number 71085168

Container size Single Use Cartridge,5 Pack

Recommended use of the chemical and restrictions on use

Application Printing ink.

Uses advised againstNo specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier Redimark

27520 SW 95th Avenue Wilsonville, OR 97070

Emergency telephone number

Emergency telephone Chemtrec US: 1-800-424-9300 Chemtrec World: 1-703-527-3887

2. Hazard(s) identification

Classification of the substance or mixture

OSHA Regulatory Status This Product is Hazardous under the OSHA Hazard Communication Standard.

Physical hazards Flam. Liq. 3 - H226

Health hazards Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Dam. 1

- H318 STOT SE 3 - H336

Environmental hazards Not Classified

Label elements

Pictogram







Signal word Danger

Hazard statements H226 Flammable liquid and vapor.

 $\label{eq:H302+H312+H332} \ Harmful\ if\ swallowed,\ in\ contact\ with\ skin\ or\ if\ inhaled.$

H315 Causes skin irritation.

H318 Causes serious eye damage. H336 May cause drowsiness or dizziness.

Comments Full list of Hazard Statements is found in Sec. 16

T801K Black Ink

Precautionary statements P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. P312 Call a poison center/doctor if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with national regulations.

Contains Methyl Ethyl Ketone , Cyclohexanone, Xylene

3. Composition/information on ingredients

Mixtures

Methyl Ethyl Ketone 80-100%

CAS number: 78-93-3

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336

Cyclohexanone 5-10%

CAS number: 108-94-1

Classification

Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 4 - H332

Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Xylene <1%

CAS number: 1330-20-7

Classification

Flam. Liq. 3 - H226

Acute Tox. 4 - H312

Acute Tox. 4 - H332

Skin Irrit. 2 - H315

Eye Irrit. 2A - H319

Carc. 2 - H351

STOT SE 3 - H335

STOT RE 1 - H372

Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

The Full Text for all Hazard Statements are Displayed in Section 16.

4. First-aid measures

Description of first aid measures

General information Consult a physician for specific advice. Show this Safety Data Sheet to the medical personnel.

T801K Black Ink

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention

immediately.

Ingestion Do not induce vomiting. Rinse nose and mouth with water. Never give anything by mouth to

an unconscious person. Get medical attention immediately.

Skin Contact Rinse immediately contaminated clothing and skin with plenty of water before removing

clothes. Wash skin thoroughly with soap and water. Get medical attention if irritation persists

after washing. Wash clothing and clean shoes thoroughly before reuse.

Eye contact Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get

medical attention.

Protection of first aidersFirst aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

General information See Section 11 for additional information on health hazards.

Inhalation Vapors may irritate throat/respiratory system. May cause coughing and difficulties in

breathing. Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and

death.

Ingestion Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause

chemical pneumonitis. May cause irritation. May cause nausea, headache, dizziness and intoxication. May cause stomach pain or vomiting. May cause liver and/or renal damage.

Skin contact May be absorbed through the skin. Prolonged or repeated contact with skin may cause

irritation, redness and dermatitis.

Eye contact This product is strongly irritating. Symptoms following overexposure may include the following:

Severe irritation, burning, tearing and blurred vision. Prolonged contact causes serious eye

and tissue damage.

Indication of immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

5.Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media

Water spray.

Special hazards arising from the substance or mixture

Flammability Class 7.1 Flammable Liquid IB.

Specific hazards Flammable liquid and vapour. Vapors are heavier than air and may spread near ground and

travel a considerable distance to a source of ignition and flash back.

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances:

Carbon dioxide (CO2). Carbon monoxide (CO).

Advice for firefighters

Protective actions during

firefighting

Evacuate area. Stop leak if safe to do so. Use water to keep fire exposed containers cool and

disperse vapors. Use water spray to reduce vapors.

T801K Black Ink

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin,

eyes and clothing. Avoid inhalation of vapors. Wash thoroughly after dealing with a spillage.

Environmental precautions

Environmental precautions Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. Stop leak if safe to do so. Contain and absorb spillage with

sand, earth or other non-combustible material. Dilute contained spill with water. Collect and

place in suitable waste disposal containers and seal securely.

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health

hazards. See Section 12 for additional information on ecological hazards. For waste disposal,

see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Wear protective clothing as described in Section 8 of this safety data sheet.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Provide eyewash station and safety shower. Good personal hygiene procedures should be implemented. Wash skin thoroughly

after handling.

Conditions for safe storage, including any incompatibilities

Storage precautions Keep only in the original container in a cool, well-ventilated place.

Storage class Flammable liquid storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Methyl Ethyl Ketone

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 590 mg/m³ Long-term exposure limit (8-hour TWA): OSHA 200 ppm 590 mg/m³ Short-term exposure limit (15-minute): ACGIH 300 ppm 885 mg/m³

Cyclohexanone

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm

Long-term exposure limit (8-hour TWA): OSHA 50 ppm 200 mg/m³

Short-term exposure limit (15-minute): ACGIH 50 ppm

A3, Sk

Xylene

T801K Black Ink

Long-term exposure limit (8-hour TWA): ACGIH 100 ppm 434 mg/m³ Long-term exposure limit (8-hour TWA): OSHA 100 ppm 435 mg/m³ Short-term exposure limit (15-minute): ACGIH 150 ppm 651 mg/m³

A4

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

A4 = Not Classifiable as a Human Carcinogen.

Sk = Danger of cutaneous absorption.

Ingredient comments Data based on literature. Product not tested.

Methyl Ethyl Ketone (CAS: 78-93-3)

Immediate danger to life

and health

3000 ppm

Cyclohexanone (CAS: 108-94-1)

Immediate danger to life

and health

700 ppm

Exposure controls

Protective equipment





Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapor or mist. Use explosion-proof ventilating equipment.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Butyl rubber. Nitrile rubber. Rubber (natural, latex).

Frequent changes are recommended.

Other skin and body

protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

Provide eyewash station and safety shower.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Organic vapor filter.

Thermal hazards

If there is a risk of contact with hot product, all protective equipment worn should be suitable

for use with high temperatures.

Environmental exposure

controls

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance

Colored liquid.

T801K Black Ink

Color Black.

Odor Ketonic.

Odor threshold Not available.

pH (concentrated solution): 6.0 - 8.5

Melting point -47°C/-53°F

Initial boiling point and range 79° C/147°F @ 760 mm Hg Flash point -9° C/16°F CC (Closed cup).

Evaporation rate 3.7 (butyl acetate = 1)

Upper/lower flammability or

explosive limits

Upper flammable/explosive limit: 11.5 % vol Lower flammable/explosive limit: 1.1 % vol

Vapour pressure 71.25 mm Hg @ 20°C/68°F

Vapour density 3.39

Relative density 0.840 g/cc 840 g/l 7.01 lbs/gal

Solubility(ies) Soluble in the following materials: Ketones. Slightly soluble in water.

Partition coefficient log Pow: 0.81

Auto-ignition temperature 404°C/759°F

Decomposition Temperature Not applicable.

Explosive properties Not applicable.

Oxidising properties Not applicable.

Comments Data based on literature. Product not tested. Information given is applicable to the product as

supplied. Information declared as "Not available" or "Not applicable" is not considered to be

relevant to the implementation of the proper control measures.

Volatile organic compound This product contains a maximum VOC content of 1100 g/l. This product contains a maximum

VOC content of 9.17 lbs/gal.

10. Stability and reactivity

Reactivity There are no known reactivity hazards associated with this product.

Stability Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous

reactions

The following materials may react with the product: Acids. Alkalis. Strong oxidizing agents.

Conditions to avoid Avoid the following conditions: Heat, sparks, flames.

Materials to avoid Avoid contact with the following materials: Acids. Alkalis. Strong oxidizing agents.

Hazardous decomposition

products

Heating may generate the following products: Carbon dioxide (CO2). Carbon monoxide (CO).

11. Toxicological information

Information on toxicological effects

T801K Black Ink

Toxicological effects Data based on literature. Product not tested.

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 11.0

Specific target organ toxicity - single exposure

Target organs Central nervous system Eyes Gastro-intestinal tract Respiratory system, lungs Skin

Specific target organ toxicity - repeated exposure

Target organs Gastro-intestinal tract Reproductive organs Skin

Aspiration hazard

Aspiration hazard Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause

chemical pneumonitis.

Toxicological information on ingredients.

Methyl Ethyl Ketone

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 2,600.0

mg/kg)

Species Rat

ATE oral (mg/kg) 2,600.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 6,400.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 6,400.0

Acute toxicity - inhalation

Acute toxicity inhalation 32,000.0

(LC₅₀ vapours mg/l)

Species Mouse

ATE inhalation (vapours

mg/l)

32,000.0

Cyclohexanone

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

T801K Black Ink

ATE inhalation (vapours

mg/l)

11.0

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Xylene

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

ATE inhalation (vapours

mg/l)

11.0

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

12. Ecological Information

Ecotoxicity Data based on literature. Product not tested.

Toxicity

Ecological information on ingredients.

Methyl Ethyl Ketone

Acute toxicity - fish LC₅₀, : 1690 mg/l, Lepomis macrochirus (Bluegill)

LC₅₀, : 3220 mg/l, Pimephales promelas (Fat-head Minnow)

Cyclohexanone

Acute toxicity - aquatic

invertebrates

EC₅o, 24 hours: 820 mg/l, Daphnia magna

Persistence and degradability

Ecological information on ingredients.

Cyclohexanone

Biodegradation - 90 - 100:

Bioaccumulative potential

Partition coefficient log Pow: 0.81

13. Disposal considerations

Waste treatment methods

General information Disposal of this product, process solutions, residues and by-products should at all times

comply with the requirements of environmental protection and waste disposal legislation and

any local authority requirements.

Disposal methodsDispose of contents/container in accordance with national regulations. Dispose of waste to

licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. When handling waste, the safety precautions

applying to handling of the product should be considered.

T801K Black Ink

14. Transport information

UN Number

UN No. (DOT) 1210 UN No. (IMDG) 1210 UN No. (ICAO) 1210

UN proper shipping name

Proper shipping name (DOT) PRINTING INK
Proper shipping name PRINTING INK

(IMDG)

Proper shipping name (ICAO) PRINTING INK

Transport hazard class(es)

IMDG Class 3
ICAO class/division 3

Transport labels



Packing group

DOT pack group II
IMDG packing group II
ICAO packing group II

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

EmS F-E, S-D

15. Regulatory information

Regulatory Status Hazardous Chemical

Regulatory References OSHA Hazard Communication Standard, 29 CFR 1910.1200

US State Regulations

California Directors List of Hazardous Substances

The following ingredients are listed or exempt:

Xylene

Methyl Ethyl Ketone

Cyclohexanone

T801K Black Ink

Massachusetts "Right To Know" List The following ingredients are listed or exempt:
Xylene
Methyl Ethyl Ketone
Cyclohexanone
Rhode Island "Right To Know" List The following ingredients are listed or exempt: Xylene
Methyl Ethyl Ketone
Cyclohexanone
Minnesota "Right To Know" List The following ingredients are listed or exempt: Xylene
Methyl Ethyl Ketone
Cyclohexanone
New Jersey "Right To Know" List The following ingredients are listed or exempt: Xylene
Methyl Ethyl Ketone
Cyclohexanone
Pennsylvania "Right To Know" List The following ingredients are listed or exempt: Xylene
Methyl Ethyl Ketone
Cyclohexanone
Inventories EU - EINECS/ELINCS

All the ingredients are listed or exempt.

Canada - DSL/NDSL

All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

T801K Black Ink

Australia - AICS

The following ingredients are listed or exempt:

Japan - MITI

The following ingredients are listed or exempt:

Korea - KECI

The following ingredients are listed or exempt:

China - IECSC

The following ingredients are listed or exempt:

Philippines - PICCS

The following ingredients are listed or exempt:

16. Other information

General information Containers of this material may be hazardous when emptied, all hazard precautions given in

the data sheet must be observed.

Issued by Matthews Marking Systems - Chemical Services Department

Revision date 3/4/2016

Revision 1

SDS No. 5851

SDS status Approved.

Hazard statements in full H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H372 Causes damage to organs (Hearing organs) through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

NFPA - health hazard Temporary incapacitation, injury. (2)

NFPA - flammability hazard Ignites easily. (3)

NFPA - instability hazard Normally stable. (0)

ACA HMIS Health rating. Moderate hazard. (2) Chronic hazard.

ACA HMIS Flammability

rating.

Ignites easily. (3)

ACA HMIS Physical hazard

rating.

Normally stable. (0)

ACA HMIS Personal

protection rating.

С

T801K Black Ink

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.