

# digital design

# SAFETY DATA SHEET 4710BK

#### 1. Identification

**Product identifier** 

Product name 4710BK

Recommended use of the chemical and restrictions on use

**Application** Printing ink.

**Uses advised against** Use only for intended applications.

Details of the supplier of the safety data sheet

Supplier Digital Design

A Matthews International Company

67 Sand Park Rd Cedar Grove, NJ 07009

973-957-9500 800-967-7746

**Emergency telephone number** 

Emergency telephone ChemTel Inc. 800-255-3924

Worldwide Intl. 813-248-0585

### 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. 2 - H225

Health hazards Acute Tox. 3 - H301 Acute Tox. 3 - H311 Eye Dam. 1 - H318 Carc. 1B - H350 STOT SE 1 -

H370

Environmental hazards Not Classified

### Label elements

### **Pictogram**







Danger



Signal word

-

Hazard statements H225 Highly flammable liquid and vapor.

H301+H311 Toxic if swallowed or in contact with skin.

H318 Causes serious eye damage.

H350 May cause cancer.

H370 Causes damage to organs .

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**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.

P308+P313 If exposed or concerned: Get medical advice/ attention.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container in accordance with national regulations.

Contains Methanol, Proprietary Ester, Naphthalene

### 3. Composition/information on ingredients

#### **Mixtures**

#### Classification

Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370

Ethanol 30-<50%

CAS number: 64-17-5

### Classification

Flam. Liq. 2 - H225 Eye Irrit. 2A - H319

Black Dye 5-<10%

CAS number: Proprietary

### Classification

Eye Irrit. 2A - H319 Aquatic Chronic 3 - H412

Proprietary Ester 1-<5%

CAS number: Proprietary

#### Classification

Acute Tox. 4 - H302 Eye Dam. 1 - H318 STOT SE 3 - H336

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Proprietary Ketone	1-<5%
CAS number: Proprietary	
Classification	
Flam. Liq. 2 - H225	
Eye Irrit. 2A - H319	
STOT SE 3 - H336	

1-<5% Isopropanol CAS number: 67-63-0 Classification Flam. Liq. 2 - H225 Eye Irrit. 2A - H319 STOT SE 3 - H336

2-Naphthol <1% CAS number: 135-19-3 M factor (Acute) = 1 Classification Acute Tox. 4 - H302 Acute Tox. 4 - H332 Eye Irrit. 2A - H319 Aquatic Acute 1 - H400

Naphthalene <1% CAS number: 91-20-3 M factor (Acute) = 1 M factor (Chronic) = 1

# Classification

Flam. Liq. 4 - H227 Acute Tox. 4 - H302 Carc. 2 - H351 STOT RE 1 - H372 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

### Description of first aid measures

General information Consult a physician for specific advice. If medical advice is needed, have product container or

label at hand. If in doubt, get medical attention promptly. Show this Safety Data Sheet to the

medical personnel.

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.

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**Ingestion** Get medical attention immediately. Do not induce vomiting unless under the direction of

medical personnel. Never give anything by mouth to an unconscious person.

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 aiders** First aid personnel should wear appropriate protective equipment during any rescue.

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

General information The product is considered to be a low hazard under normal conditions of use. The severity of

the symptoms described will vary dependent on the concentration and the length of exposure.

See Section 11 for additional information on health hazards.

Inhalation May be harmful if inhaled. Vapor may affect central nervous system. Vapours may cause

drowsiness and dizziness. Vapors irritate the respiratory system.

**Ingestion** Harmful if swallowed. May cause nausea, headache, dizziness and intoxication.

**Skin contact** Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

Eye contact This product is moderately irritating. Symptoms following overexposure to vapor may include

the following: Severe irritation, burning, tearing and blurred vision.

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

#### 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.

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. Ensure procedures and training for emergency decontamination and disposal are in place.

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#### **Environmental precautions**

Environmental precautions Avoid

Avoid release to the environment. Do not discharge into drains or watercourses or onto the ground. Use appropriate containment to avoid environmental contamination. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

#### Methods and material for containment and cleaning up

Methods for cleaning up

Eliminate all sources of ignition. Stop leak if safe to do so. Do not touch or walk into spilled material. Take care as floors and other surfaces may become slippery. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. When handling waste, the safety precautions applying to handling of the product should be considered. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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. Wash contaminated clothing before reuse.

### Conditions for safe storage, including any incompatibilities

Storage precautions

Store at temperatures between 4.4°C/40°F and 32.2°C/90°F. Keep only in the original container in a cool, well-ventilated place. Protect from freezing and direct sunlight. Container must be kept tightly closed when not in use. Keep containers upright. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in accordance with national regulations.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

# 8. Exposure Controls/personal protection

### Control parameters

### Occupational exposure limits

#### Methanol

Long-term exposure limit (8-hour TWA): OSHA 200 ppm 260 mg/m³ Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 262 mg/m³ Short-term exposure limit (15-minute): ACGIH 250 ppm 328 mg/m³ Sk

#### **Ethanol**

Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 1900 mg/m³ Short-term exposure limit (15-minute): ACGIH 1000 ppm 1880 mg/m³

#### **Black Dye**

No exposure limit value known.

# **Proprietary Ketone**

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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

#### Isopropanol

Long-term exposure limit (8-hour TWA): OSHA 400 ppm 980 mg/m³ Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 492 mg/m³ Short-term exposure limit (15-minute): ACGIH 400 ppm 984 mg/m³ A4

### Naphthalene

Long-term exposure limit (8-hour TWA): OSHA 10 ppm 50 mg/m³ Long-term exposure limit (8-hour TWA): ACGIH 10 ppm 52 mg/m³ A3, DSens, Sk

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists. A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

Sk = Danger of cutaneous absorption.

A4 = Not Classifiable as a Human Carcinogen.

DSens = Dermal sensitizer.

Ingredient comments

Data based on literature. Product not tested.

Methanol (CAS: 67-56-1)

Immediate danger to life

and health

6000 ppm

Isopropanol (CAS: 67-63-0)

Immediate danger to life

and health

2000 ppm

**Proprietary Ketone** 

Immediate danger to life

and health

3000 ppm

Naphthalene (CAS: 91-20-3)

Immediate danger to life and health

250 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.

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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

Avoid contact with skin. Wear appropriate clothing to prevent repeated or prolonged skin

contact.

Hygiene measures Wash contaminated skin thoroughly after handling. 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.

Color Black.

Odor Alcoholic.

Melting point -89°C/-128°F

Initial boiling point and range 63°C/147°F @ 760 mm Hg

Flash point 4°C/40°F CC (Closed cup).

**Evaporation rate** 8.3 (diethyl ether = 1)

Upper/lower flammability or

explosive limits

Upper flammable/explosive limit: 19 % vol Lower flammable/explosive limit: 1.4 % vol

Vapor pressure 42.9 mm Hg @ 20°C/68°F

Vapor density 1.5

Relative density 0.70-0.90

Solubility(ies) Soluble in the following materials: Alcohols. Soluble in water.

Partition coefficient log Pow: -0.3

**Auto-ignition temperature** 398°C/750°F

**Decomposition Temperature** Not applicable.

**Explosive properties** Not applicable.

Oxidizing properties Not applicable.

Comments 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.

### 10. Stability and reactivity

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**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: Strong oxidizing agents.

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

Materials to avoid Avoid contact with the following materials: 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

Acute toxicity - oral

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 22.83

### Specific target organ toxicity - single exposure

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

### Specific target organ toxicity - repeated exposure

Target organs Blood Central nervous system Gastro-intestinal tract Kidneys Liver Skin

Aspiration hazard

Aspiration hazard Not relevant.

#### Toxicological information on ingredients.

#### Methanol

Acute toxicity - oral

Acute toxicity oral (LD₅o

143.0

mg/kg)

Species Human

Notes (oral LD₅o) LDLO - 143 mg/kg, Oral, Human LD₅o 1187 - 2769 mg/kg, Oral, Rat

ATE oral (mg/kg) 143.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 1,000.0

mg/kg)

Species Rabbit

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> 17100 mg/kg, Dermal, Rabbit

ATE dermal (mg/kg) 1,000.0

Acute toxicity - inhalation

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Acute toxicity inhalation

(LC50 vapours mg/l)

10.0

**Species** Rat

Notes (inhalation LC50)  $LC_{50}$  87.6 - 6 h mg/l, Inhalation, Rat  $LC_{50}$  128.2 - 4 h mg/l, Inhalation, Rat

ATE inhalation (vapours

mg/l)

10.0

Carcinogenicity

Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is

identified as

probable, possible or confirmed human carcinogen

IARC carcinogenicity No component of this product present at levels greater than or equal to 0.1% is

identified as

probable, possible or confirmed human carcinogen

NTP carcinogenicity No component of this product present at levels greater than or equal to 0.1% is

identified as

probable, possible or confirmed human carcinogen

Specific target organ toxicity - single exposure

A single exposure may cause the following adverse effects: Difficulty in breathing. STOT - single exposure

Nausea, vomiting. Diarrhea.

**Target organs** Gastro-intestinal tract Respiratory system, lungs Respiratory tract

**Ethanol** 

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

3,450.0

**Species** Rat

ATE oral (mg/kg) 3,450.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 15,800.0

mg/kg)

**Species** Rabbit

ATE dermal (mg/kg) 15,800.0

Acute toxicity - inhalation

Acute toxicity inhalation

30,000.0

(LC<sub>50</sub> vapours mg/l)

**Species** Rat

ATE inhalation (vapours

30,000.0

mg/l)

Serious eye damage/irritation

Serious eye damage/irritation Causes eye irritation.

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Carcinogenicity

Carcinogenicity Ethyl alcohol is only considered a carcinogenic and developmental hazard when

ingested as an alcoholic beverage.

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

NTP carcinogenicity Known carcinogen.

**OSHA Carcinogenicity** Listed as a carcinogen under OSHA

**Black Dye** 

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

2,001.0

**Species** 

Rat

ATE oral (mg/kg)

2,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,001.0

mg/kg)

**Species** Rat

2,001.0 ATE dermal (mg/kg)

Serious eye damage/irritation

Serious eye

Causes serious eye damage.

damage/irritation

**Proprietary Ester** 

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

1,540.0

**Species** Rat

ATE oral (mg/kg) 1,540.0

Acute toxicity - inhalation

Acute toxicity inhalation

5,100.01

(LC<sub>50</sub> vapours mg/l)

**Species** Rat

ATE inhalation (vapours

mg/l)

5,100.01

**Proprietary Ketone** 

Acute toxicity - oral

Acute toxicity oral (LD₅o

2,600.0

mg/kg)

**Species** Rat

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**ATE oral (mg/kg)** 2,600.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 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 32,000.0

mg/l)

Serious eye damage/irritation

Serious eye Causes serious eye irritation.

damage/irritation

Isopropanol

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

5,045.0

Species Rat

**ATE oral (mg/kg)** 5,045.0

Acute toxicity - dermal

Acute toxicity dermal (LD50 12,800.0

mg/kg)

Species Rabbit

**ATE dermal (mg/kg)** 12,800.0

Acute toxicity - inhalation

Acute toxicity inhalation 73.0

(LC<sub>50</sub> vapours mg/l)

Species Rat

ATE inhalation (vapours 73.0

mg/l)

Serious eye damage/irritation

Serious eye Causes serious eye irritation.

damage/irritation

2-Naphthol

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

1,960.0

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Species Rat

**ATE oral (mg/kg)** 1,960.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,001.0

mg/kg)

Species Rat

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalation

Acute toxicity inhalation 3.0

(LC50 dust/mist mg/l)

Species Rat

ATE inhalation 3.0

(dusts/mists mg/l)

Serious eye damage/irritation

Serious eye Causes eye irritation.

damage/irritation

Naphthalene

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

1,110.0

Species Rat

**ATE oral (mg/kg)** 1,110.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 5,010.0

mg/kg)

Species Rabbit

**ATE dermal (mg/kg)** 5,010.0

Acute toxicity - inhalation

Acute toxicity inhalation 340.0

(LC<sub>50</sub> dust/mist mg/l)

Species Rat

ATE inhalation 340.0

(dusts/mists mg/l)

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

NTP carcinogenicity Reasonably anticipated to be a human carcinogen.

Specific target organ toxicity - repeated exposure

Target organs Blood

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#### 12. Ecological Information

### Ecological information on ingredients.

#### Methanol

Acute toxicity - fish NOEC, 200 hours: 7,900 mg/l, Oryzias latipes (Red killifish)

LC<sub>50</sub>, 96 hours: 15,400 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: > 10,000 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 96 hours: 22,000 mg/l, Selenastrum capricornutum

**Ethanol** 

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 14,200 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

NOEC, 9 days: 9.6 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 275 mg/l, Freshwater algae

**Black Dye** 

Acute toxicity - fish LL<sub>50</sub>, 96 hours: > 100 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

LL₅o, 48 hours: > 100 mg/l, Daphnia magna

Chronic toxicity - fish early NOEC, : >= 100 mg/l, Onchorhynchus mykiss (Rainbow trout)

life stage

Chronic toxicity - aquatic

invertebrates

NOEC, : >= 100 mg/l, Daphnia magna

**Proprietary Ester** 

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 220 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 500 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 96 hours: 79 mg/l, Desmodesmus subspicatus

**Proprietary Ketone** 

Acute toxicity - fish LC<sub>50</sub>, : 1690 mg/l, Lepomis macrochirus (Bluegill)

LC<sub>50</sub>, : 3220 mg/l, Pimephales promelas (Fat-head Minnow)

Isopropanol

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 24 hours: 5102 mg/l, Daphnia magna

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Acute toxicity - aquatic

EC<sub>50</sub>, 72 hours: > 2000 mg/l, Desmodesmus subspicatus

plants

EC<sub>50</sub>, 24 hours: > 1000 mg/l, Algae

2-Naphthol

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.1 < L(E)C50 \le 1$ 

M factor (Acute)

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 0.96 mg/l, Pimephales promelas (Fat-head Minnow)

Naphthalene

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.1 < L(E)C50 \le 1$ 

M factor (Acute)

Acute toxicity - fish LC₅o, 96 hours: 0.91 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: 1.09 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 72 hours: 0.4 mg/l, Selenastrum capricornutum

Chronic aquatic toxicity

M factor (Chronic) 1

Persistence and degradability

Ecological information on ingredients.

Methanol

**Biodegradation** The substance is readily biodegradable.

Soil - Degradation 72%: 5 days

Biological oxygen demand 600-1,120 g O<sub>2</sub>/g substance

Chemical oxygen demand 1,420 mg O<sub>2</sub>/l

**Black Dye** 

Persistence and

degradability

The product is not readily biodegradable.

Biodegradation Soil - Degradation 0%: 28 days

Isopropanol

Persistence and

degradability

The product is readily biodegradable.

Biological oxygen demand 1.19 g O<sub>2</sub>/g substance

Chemical oxygen demand 2.23 g O<sub>2</sub>/g substance

2-Naphthol

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Persistence and

degradability

The product is readily biodegradable.

Biodegradation

Soil - Degradation 92%: 15 days

Bioaccumulative potential

Partition coefficient log Pow: -0.3

Ecological information on ingredients.

Methanol

Bio-Accumulative Potential BCF: 5 mg/l, Cyprinus carpio (Common carp)

**Ethanol** 

Partition coefficient log Pow: -0.32

Isopropanol

Partition coefficient log Pow: 0.05

Naphthalene

Bio-Accumulative Potential BCF: 168, Fish

### 13. Disposal considerations

#### Waste treatment methods

General information The generation of waste should be minimized or avoided wherever possible. When handling

waste, the safety precautions applying to handling of the product should be considered. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Dispose of waste product or used containers in accordance with local regulations 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 methods**Dispose 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.

### 14. Transport information

**UN Number** 

**UN No. (TDG)** 1210

UN No. (IMDG) 1210

UN No. (ICAO) 1210

**UN No. (DOT)** 1210

UN proper shipping name

Proper shipping name (TDG) PRINTING INK

Proper shipping name (IMDG) PRINTING INK

### 4710BK

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

### Transport hazard class(es)

TDG class 3
TDG label(s) 3
IMDG Class 3
ICAO class/division 3

#### Transport labels



### Packing group

TDG Packing Group

IMDG packing group

ICAO packing group

II

DOT 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 Federal Regulations**

### CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

Methanol

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

Proprietary Ketone

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

Naphthalene

Final CERCLA RQ: 100(45.4) pounds (Kilograms)

### SARA 313 Emission Reporting

Methanol

Isopropanol

Naphthalene

### SARA (311/312) Hazard Categories

Methanol

# 4710BK

Fire Acute Chronic
Ethanol
Acute Chronic Fire
Black Dye
Acute
Proprietary Ketone Fire Acute Chronic
Isopropanol
Acute Chronic Fire
Naphthalene
Acute Chronic Fire
US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins
Methanol
Known to the State of California to cause developmental and reproductive toxicity.
Ethanol Known to the State of California to cause cancer and developmental reproductive toxicity.
Naphthalene Known to the State of California to cause cancer.
California Air Toxics "Hot Spots" (A-I)
Methanol
Proprietary Ketone
Isopropanol
Naphthalene
California Directors List of Hazardous Substances
Camornia Birodoro Elot or Flazardodo Cabotarioco
The following ingredients are listed or exempt:
The following ingredients are listed or exempt:  Methanol
Methanol
Methanol Ethanol
Methanol Ethanol Proprietary Ketone
Methanol Ethanol Proprietary Ketone Isopropanol
Methanol Ethanol Proprietary Ketone Isopropanol Naphthalene
Methanol Ethanol Proprietary Ketone Isopropanol Naphthalene  Massachusetts "Right To Know" List

### 4710BK

Proprietary Ketone Isopropanol

Naphthalene

### Rhode Island "Right To Know" List

The following ingredients are listed or exempt:

Methanol

Ethanol

Proprietary Ketone

Isopropanol

Naphthalene

# Minnesota "Right To Know" List

The following ingredients are listed or exempt:

Methanol

Ethanol

Proprietary Ketone

Isopropanol

Naphthalene

### New Jersey "Right To Know" List

The following ingredients are listed or exempt:

Methanol

Ethanol

Proprietary Ketone

Isopropanol

Naphthalene

### Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

Methanol

Ethanol

Proprietary Ketone

Isopropanol

Naphthalene

### 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.

Australia - AICS

# 4710BK

Methanol

Ethanol

Proprietary Ester

Proprietary Ketone

Isopropanol

Naphthalene

# Japan - MITI

Methanol

Ethanol

Proprietary Ester

Proprietary Ketone

Isopropanol

Naphthalene

#### Korea - KECI

Methanol

Ethanol

Proprietary Ester

Proprietary Ketone

Isopropanol

Naphthalene

## China - IECSC

Methanol

Ethanol

Proprietary Ester

Proprietary Ketone

Isopropanol

Naphthalene

# Philippines - PICCS

Methanol

Ethanol

Proprietary Ester

Proprietary Ketone

Isopropanol

Naphthalene

### New Zealand - NZIOC

Methanol

Ethanol

Proprietary Ester

### 4710BK

Proprietary Ketone

Isopropanol

Naphthalene

Taiwan - NECI

Methanol

Ethanol

Proprietary Ester

Proprietary Ketone

Isopropanol

Naphthalene

#### 16. Other information

Issued by Matthews Marking Systems - Chemical Services Department

Revision date 8/6/2018

Revision 1

SDS No. 5972

SDS status Approved.

Hazard statements in full H225 Highly flammable liquid and vapor.

> H227 Combustible liquid. H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H318 Causes serious eye damage. H319 Causes serious eye irritation.

H331 Toxic if inhaled. H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H350 May cause cancer.

H351 Suspected of causing cancer. H370 Causes damage to organs.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

NFPA - instability hazard Normally stable. (0)

ACA HMIS Health rating. Moderate hazard. (2)

NFPA - health hazard Irritation, minor residual injury. (1)

NFPA - flammability hazard Ignites easily. (3) **ACA HMIS Flammability** 

rating.

Ignites easily. (3)

ACA HMIS Physical hazard

rating.

Normally stable. (0)

# 4710BK

ACA HMIS Personal B protection rating.

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.