

SAFETY DATA SHEET L219 Black Ink

1. Identification

Product identifier

Product name L219 Black Ink

Product number 71002821

Container size 6 x 1/2 Liter

Recommended use of the chemical and restrictions on use

Application Printing ink.

Details of the supplier of the safety data sheet

Supplier Matthews Marking Systems

6515 Penn Avenue Pittsburgh, PA 15206 412.665.2500

412.828.4545 info@matw.com

Manufacturer Matthews Marking Systems

101 Fairview Ave. Pittsburgh, PA 15238

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. 2 - H225

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H336

Environmental hazards Not Classified

Label elements

Pictogram





Signal word Danger

Hazard statements H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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

L219 Black Ink

Precautionary statements

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

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing vapor/spray.

P264 Wash contaminated skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

P302+P352 If on skin: Wash with plenty of water.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

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.

P321 Specific treatment (see medical advice on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

P405 Store locked up.

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

Contains

Methyl ethyl ketone - MEK, Isopropanol, propan-2-ol

3. Composition/information on ingredients

Mixtures

| Methyl Ethyl Ketone | 60-100% |
|---------------------------------------|---------|
| CAS number: 78-93-3 | |
| Classification Flam. Liq. 2 - H225 | |

Eye Irrit. 2 - H319 STOT SE 3 - H336

Proprietary - Black 5-10%

CAS number: 57206-81-2

Classification

Eye Irrit. 2B - H320

Isopropanol 1-5%

CAS number: 67-63-0

Classification

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

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propan-2-ol 1-5%

CAS number: 67-63-0

Classification

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

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.

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 Get medical attention immediately. Do not induce vomiting. Aspiration hazard if swallowed.

Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Skin Contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

attention promptly if symptoms occur 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 See Section 11 for additional information on health hazards.

Inhalation May cause respiratory system irritation. Overexposure may depress the central nervous

system, causing dizziness and intoxication.

Ingestion May cause stomach pain or vomiting. 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 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

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

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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). Nitrous gases (NOx).

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.

Environmental precautions

Environmental precautions Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up Spilled nitrocellulose must be thoroughly wetted with water. 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 Tools used with nitrocellulose should be of non-ferrous materials such as copper, brass, or

wood. 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

L219 Black Ink

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

Proprietary - Black

as CrO3

Long-term exposure limit (8-hour TWA): OSHA 0.5 mg/m3 > 6.0 % as dust

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

propan-2-ol

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

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

Ingredient comments

Data based on literature. Product not tested.

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

Immediate danger to life

and health

3000 ppm

Isopropanol (CAS: 67-63-0)

Immediate danger to life

and health

2000 ppm

propan-2-ol (CAS: 67-63-0)

Immediate danger to life and health

2000 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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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. 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 Ketonic.

Melting point -86°C/-123°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: 12.7 % vol Lower flammable/explosive limit: 1.8 % vol

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

Vapour density 2.4

Relative density 0.872 872 g/l 7.26 lbs/gal

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

Partition coefficient log Pow: 0.26

Auto-ignition temperature 404°C/759°F

Comments Information given is applicable to the product as supplied.

Volatile organic compound This product contains a maximum VOC content of 745 g/l. This product contains a maximum

VOC content of 6.21 lbs/gal.

10. Stability and reactivity

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

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.

L219 Black Ink

Hazardous decomposition products

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

Nitrous gases (NOx).

11. Toxicological information

Information on toxicological effects

Toxicological effects Data based on literature. Product not tested.

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 Blood Central nervous system Gastro-intestinal tract Kidneys Liver 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 (LD₅o

mg/kg)

2,600.0

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

Proprietary - Black

Acute toxicity - oral

Acute toxicity oral (LD50

2,000.1

mg/kg)

Species Rat

ATE oral (mg/kg) 2,000.1

Acute toxicity - dermal

L219 Black Ink

Acute toxicity dermal (LD₅₀ 2,000.1

mg/kg)

Species Rat

ATE dermal (mg/kg) 2,000.1

Carcinogenicity

IARC carcinogenicity Not listed

Isopropanol

Acute toxicity - oral

Acute toxicity oral (LD₅o

•

mg/kg)

Species Rat

ATE oral (mg/kg) 5,045.0

Acute toxicity - dermal

Acute toxicity dermal (LD50 12,800.0

mg/kg)

12,000.0

5,045.0

Species Rabbit

ATE dermal (mg/kg) 12,800.0

Carcinogenicity

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

propan-2-ol

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)

Proprietary - Black

Acute toxicity - fish LC₅₀, : 2.0 mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₈₀, : 1000 mg/l, Daphnia magna

Isopropanol

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Acute toxicity - fish LC₅₀, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC₅₀, 24 hours: 5102 mg/l, Daphnia magna

Acute toxicity - aquatic

EC₅o, 72 hours: > 2000 mg/l, Desmodesmus subspicatus

plants EC₅₀, 24 hours: > 1000 mg/l, Algae

Bioaccumulative potential

Partition coefficient log Pow: 0.26

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 waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

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

IMDG packing group

ICAO packing group

Environmental hazards

Environmentally Hazardous Substance

No.

L219 Black Ink

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

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Proprietary - Black

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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

Methyl Ethyl Ketone

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

SARA 313 Emission Reporting

Methyl Ethyl Ketone

All the ingredients are listed or exempt.

Proprietary - Black

0.1 %

Isopropanol

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

SARA (311/312) Hazard Categories

Methyl Ethyl Ketone

Fire

Health:

Acute

Chronic

Proprietary - Black

Acute

Isopropanol

Fire

Health:

Acute

Chronic

OSHA Highly Hazardous Chemicals

Proprietary - Resin

Threshold Quantity: 2500 lbs

Hazardous Air Pollutants

MEK

(HAPS) - Clean Air Art

US State Regulations

California Air Toxics "Hot Spots" (A-I)

Methyl Ethyl Ketone

Present

L219 Black Ink

Isopropanol

Present

propan-2-ol

Present

California Directors List of Hazardous Substances

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

Isopropanol

Present

propan-2-ol

Present

Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

Isopropanol

Present

propan-2-ol

Present

Proprietary - Resin

Present

Rhode Island "Right To Know" List

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

Isopropanol

Present

propan-2-ol

Present

Proprietary - Resin

Present

Minnesota "Right To Know" List

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

Proprietary - Black

Isopropanol

Present

propan-2-ol

Present

Proprietary - Resin

New Jersey "Right To Know" List

L219 Black Ink

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

Isopropanol

Present

propan-2-ol

Present

Proprietary - Resin

Present

Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

Isopropanol

Present

propan-2-ol

Present

Proprietary - Resin

Present

Inventories

EU - EINECS/ELINCS

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

ELINCS

Canada - DSL/NDSL

All the ingredients are listed or exempt.

Methyl Ethyl Ketone

DSL

Proprietary - Black

DSL

Isopropanol

DSL

propan-2-ol

DSL

Proprietary - Resin

DSL

US - TSCA

All the ingredients are listed or exempt.

Methyl Ethyl Ketone

Present

Proprietary - Black

Present

L219 Black Ink

Isopropanol

Present

propan-2-ol

Present

Proprietary - Resin

Present

Australia - AICS

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

Japan - MITI

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

Korea - KECI

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

China - IECSC

The following ingredients are listed or exempt:

Philippines - PICCS

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

New Zealand - NZIOC

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 6/1/2015

Revision 1

SDS No. 5004

SDS status Approved.

Hazard statements in full H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H320 Causes eye irritation.

H336 May cause drowsiness or dizziness.

NFPA - flammability hazard Ignites easily. (3)

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

L219 Black Ink

NFPA - instability hazard Normally stable. (0)

ACA HMIS Health rating. Slight hazard. (1) Chronic hazard.

ACA HMIS Physical hazard

rating.

Normally stable. (0)

ACA HMIS Personal B

protection rating.

ACA HMIS Flammability

Ignites easily. (3)

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.