

SAFETY DATA SHEET SCP-411A Black QD Ink

1. Identification

Product identifier

Product name SCP-411A Black QD Ink

Product number 71002430, 71002431, 71002433, 71002434, 71065733

Container size 6 x 1 Liter, 2 x 4 Liter, 5 Gallon Pail, 55 Gallon Drum

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 Matthews Marking Systems

6515 Penn Avenue Pittsburgh, PA 15206 412.665.2500

412.828.4545 info@matw.com

Manufacturer Matthews Marking Systems

Zona Franca La Lima

Multitenant #8

Cartago, Costa Rica 30106

(506) 4000-1103

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 Eye Irrit. 2A - H319 STOT SE 3 - H336

Environmental hazards Not Classified

Label elements

Hazard symbols





Signal word Danger

Hazard statements H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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

Contains Ethyl acetate, N-Propanol

3. Composition/information on ingredients

Mixtures

Ethyl acetate 90-100%

CAS number: 141-78-6

Classification

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

N-Propanol 1-<5%

CAS number: 71-23-8

Classification

Flam. Liq. 2 - H225 Eye Dam. 1 - H318 STOT SE 3 - H336

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

Composition comments This material does not contain any Hazardous Air Pollutants (HAPS) as defined by the Clean

Air Act under the US Environmental Protection Agency (EPA).

Ingredient notes The exact percentage/concentration is withheld as a trade secret in accordance with 29 CFR

1910.1200. The exact identity is withheld as a trade secret in accordance with 29 CFR

1910.1200.

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.

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.

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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 Gas or vapor in high concentrations may irritate the respiratory system. Vapours may cause

drowsiness and dizziness.

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

None known.

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.

Environmental precautions

Environmental precautions 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.

Storage class Flammable liquid storage.

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

Ethyl acetate

Long-term exposure limit (8-hour TWA): ACGIH 400 ppm 1440 mg/m³ Long-term exposure limit (8-hour TWA): OSHA 400 ppm 1400 mg/m³

Long-term exposure limit (8-hour TWA): ACGIH 100 ppm 246 mg/m³

Long-term exposure limit (8-hour TWA): OSHA 200 ppm 500 mg/m³ ACGIH = American Conference of Governmental Industrial Hygienists. OSHA = Occupational Safety and Health Administration.

A4 = Not Classifiable as a Human Carcinogen.

Ingredient comments Data based on literature. Product not tested.

Ethyl acetate (CAS: 141-78-6)

Immediate danger to life 2000 ppm

and health

Immediate danger to life 800 ppm and health

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

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

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.

fitted with the following cartridge: Organic vapor filter.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Colored liquid.

Color Black.

Odor Ester. Sweetish.

Melting point -127°C/-196.6°F

Initial boiling point and range 78°C/172°F @ 760 mm Hg

Flash point -4°C/24°F Closed cup.

Evaporation rate 4.1 (butyl acetate = 1)

Upper/lower flammability or

explosive limits

Upper flammable/explosive limit: 11 % vol Lower flammable/explosive limit: 2.2 % vol

Vapor pressure 86 mm Hg @ 20°C/68°F

Vapor density 2.1

Relative density 0.908 g/cc 908 g/l 7.57 lbs/gal

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

Partition coefficient log Pow: 0.73

Auto-ignition temperature 413°C/775°F

Decomposition Temperature Not applicable.

Explosive 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.

Not applicable.

Volatile organic compound This product contains a maximum VOC content of 865 g/l. This product contains a maximum

VOC content of 7.21 lbs/gal.

HAPS Content 0%

10. Stability and reactivity

Oxidizing properties

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 acids. Strong alkalis. Strong

oxidizing agents.

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

Materials to avoid Avoid contact with the following materials: Strong acids. Strong 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

Toxicological effects Information given is based on data of the components and of similar products.

Specific target organ toxicity - single exposure

Target organs Eyes Respiratory system, lungs

Specific target organ toxicity - repeated exposure

Target organs Skin

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Toxicological information on ingredients.

Ethyl acetate

Acute toxicity - inhalation

Acute toxicity inhalation 58.0

(LC50 vapours mg/l)

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ATE inhalation (vapours

mg/l)

Serious eye damage/irritation

Serious eye Causes eye irritation.

58.0

damage/irritation

Specific target organ toxicity - single exposure

Target organs Central nervous system

N-Propanol

Acute toxicity - inhalation

Acute toxicity inhalation 9.9

(LC50 dust/mist mg/l)

ATE inhalation 9.9

(dusts/mists mg/l)

Serious eye damage/irritation

Serious eye Ca

damage/irritation

Causes serious eye irritation.

Specific target organ toxicity - single exposure

Target organs Central nervous system

12. Ecological information

Ecological information on ingredients.

Ethyl acetate

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 48 hours: 270 mg/l, Leuciscus idus (Golden orfe)

LC₅o, 96 hours: 230 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC₅₀, 24 hours: 717 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 48 hours: 3300 mg/l, Freshwater algae

Acute toxicity -EC₅₀, 5 minutes: 1180 mg/l, Activated sludgemicroorganismsEC₅₀, 15 minutes: 1500 mg/l, Activated sludge

EC₅o, 2 hours: 7400 mg/l, Activated sludge

N-Propanol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 804 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

LC₅₀, 96 hours: > 804 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 48 hours: >100 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

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Chronic toxicity - aquatic invertebrates

NOEC, 21 days: >100 mg/l, Daphnia magna

Persistence and degradability

Ecological information on ingredients.

N-Propanol

Persistence and

degradability

The product is readily biodegradable.

Biodegradation Soil - Degradation 75%: 20 days

Biological oxygen demand <2000 mg O₂/l

Chemical oxygen demand 0.071 g O₂/g substance

Bioaccumulative potential

Partition coefficient log Pow: 0.73

Ecological information on ingredients.

Ethyl acetate

Partition coefficient Pow: 5.4 log Pow: 0.73

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 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. 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

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)

Ethyl acetate

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

SARA (311/312) Hazard Categories

N-Propanol

Fire Acute

Ethyl acetate

Acute Chronic Fire

OSHA Highly Hazardous Chemicals

N-Propanol Hazardous

US State Regulations

California Directors List of Hazardous Substances

The following ingredients are listed:

N-Propanol

Ethyl acetate

Massachusetts "Right To Know" List

The following ingredients are listed:

N-Propanol

Ethyl acetate

Rhode Island "Right To Know" List

The following ingredients are listed:

N-Propanol

Ethyl acetate

Minnesota "Right To Know" List

The following ingredients are listed:

N-Propanol

Ethyl acetate

New Jersey "Right To Know" List

The following ingredients are listed:

N-Propanol

Ethyl acetate

Pennsylvania "Right To Know" List

The following ingredients are listed:

N-Propanol

Ethyl acetate

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

N-Propanol

Ethyl acetate

Japan - ENCS

N-Propanol

Ethyl acetate

Korea - KECI

N-Propanol

Ethyl acetate

China - IECSC

N-Propanol

Ethyl acetate

Philippines - PICCS

The following ingredients are listed:

N-Propanol

Ethyl acetate

New Zealand - NZIOC

N-Propanol

Ethyl acetate

Taiwan - NECI

The following ingredients are listed:

N-Propanol

Ethyl acetate

16. Other information

Issued by Matthews Marking Systems - Chemical Services Department

Revision date 3/20/2017

Revision 4

Supersedes date 12/28/2016

SDS No. 4805

SDS status Approved.

Hazard statements in full H225 Highly flammable liquid and vapor.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

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

NFPA - flammability hazard Ignites easily. (3)

NFPA - instability hazard Normally stable. (0)

ACA HMIS Health rating. Slight hazard. (1)

ACA HMIS Flammability

rating.

Ignites easily. (3)

ACA HMIS Physical hazard

rating.

Normally stable. (0)

ACA HMIS Personal

protection rating.

В

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.