



SAFETY DATA SHEET JAM4214 Purple Ink

1. Identification

Product identifier

Product name JAM4214 Purple Ink

Product number 71001298, 71001299, 71001300, 71001301, 71001302, 71001304

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

Recommended use of the chemical and restrictions on use

Restriction on use Printing ink.

Uses advised against Use only for intended applications.

Details of the supplier of the safety data sheet

Supplier Matthews Marking Systems
3159 Unionville Road, Suite 500
Cranberry Township, PA 16066
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 identification

Classification of the substance or mixture

Physical hazards Flam. Liq. 2 - H225

Health hazards Eye Irrit. 2A - H319 Carc. 2 - H351 STOT SE 3 - H336

Environmental hazards Not Classified

Label elements

Hazard pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H336 May cause drowsiness or dizziness.

JAM4214 Purple Ink

Precautionary statements	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P312 Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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3. Composition/information on ingredients

Mixtures

Methyl Ethyl Ketone CAS number: 78-93-3	80-<90%
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H335	
Crystal Violet CAS number: 548-62-9	<1%
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318 Carc. 2 - H351	

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 the Regulations amending the Hazardous Products Regulations. 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. Consult a physician for specific advice.
Ingestion	Get medical attention immediately. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Skin contact	Remove contaminated clothing immediately and wash skin 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.

JAM4214 Purple Ink

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 cause respiratory system irritation. Vapour may affect central nervous system. May cause drowsiness or dizziness.

Ingestion May cause nausea, headache, dizziness and intoxication. May cause stomach pain or vomiting.

Skin contact The product is considered to be a low hazard under normal conditions of use. 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 any 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.

Specific hazards arising from the hazardous product

Specific hazards Flammable liquid and vapour. Vapours 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 vapours. Use water spray to reduce vapours.

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 vapours. 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

JAM4214 Purple Ink

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

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 use(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

Methyl Ethyl Ketone

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

ACGIH = American Conference of Governmental Industrial Hygienists.

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, vapour or mist. Use explosion-proof ventilating equipment.

Eye/face protection

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

JAM4214 Purple Ink

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 vapour 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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Coloured liquid.
Colour	Purple.
Odour	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 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: 1.8 % vol
Vapour pressure	71.25 mm Hg @ 20°C/68°F
Vapour density	2.4
Relative density	0.832 g/cc 832 g/l 6.93 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
Decomposition Temperature	Not applicable.
Explosive properties	Not applicable.
Oxidising 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.
Volatile organic compound	This product contains a maximum VOC content of 728 g/l. This product contains a maximum VOC content of 6.06 lbs/gal.

JAM4214 Purple Ink

HAPS Content 0.00

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.
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 (CO ₂). 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 Central nervous system Eyes Gastro-intestinal tract Respiratory system, lungs Skin

Specific target organ toxicity - repeated exposure

Target organs Skin

Toxicological information on ingredients

Methyl Ethyl Ketone

Acute toxicity - inhalation

Acute toxicity inhalation 32,000.0
(LC₅₀ vapours mg/l)

ATE inhalation (vapours 32,000.0
mg/l)

Serious eye damage/irritation

Serious eye Causes serious eye irritation.
damage/irritation

Crystal Violet

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 420.0
mg/kg)

Species Rat

ATE oral (mg/kg) 420.0

Serious eye damage/irritation

Serious eye Causes eye irritation.
damage/irritation

12. Ecological information

Ecological information on ingredients

JAM4214 Purple Ink

Methyl Ethyl Ketone

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, : 1690 mg/l, Lepomis macrochirus (Bluegill)
LC₅₀, : 3220 mg/l, Pimephales promelas (Fat-head Minnow)

Crystal Violet

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.35 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 0.42 mg/l, Scenedesmus subspicatus

Bioaccumulative potential

Partition coefficient log Pow: 0.26

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. 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

JAM4214 Purple Ink

ICAO class/division 3

Transport labels



Packing group

TDG packing group II

IMDG packing group II

ICAO packing group II

DOT packing group II

Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

Special precautions for user

EmS F-E, S-D

15. Regulatory information

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

Methyl Ethyl Ketone

Crystal Violet

Japan - ENCS

Methyl Ethyl Ketone

Crystal Violet

Korea - KECI

Methyl Ethyl Ketone

Crystal Violet

China - IECSC

Methyl Ethyl Ketone

Crystal Violet

Philippines – PICCS

JAM4214 Purple Ink

Methyl Ethyl Ketone

Crystal Violet

New Zealand - NZIOC

Methyl Ethyl Ketone

Crystal Violet

Taiwan - TCSI

Methyl Ethyl Ketone

Crystal Violet

16. Other information

Issued by	Matthews Marking Systems - Chemical Services Department
Revision date	2020-04-09
Revision	4
Supersedes date	2017-06-07
SDS number	5145
SDS status	Approved.
Hazard statements in full	H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

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.