



SAFETY DATA SHEET JAM6010 White Ink

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	JAM6010 White Ink
Product number	71000931,71000930,71000933
Container size	2 x 4 Liter,4 x 4 Liter,5 Gallon Pail

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Printing ink.
Uses advised against	No specific uses advised against are identified.

1.3. 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

1.4. Emergency telephone number

Emergency telephone	Chemtrec US : 1-800-424-9300 Chemtrec World: 1-703-527-3887
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards	Flam. Liq. 2 - H225
Health hazards	Acute Tox. 4 - H302 Eye Irrit. 2 - H319 Elicitation - EUH208 Carc. 2 - H351 Repr. 1B - H360Df STOT SE 3 - H335
Environmental hazards	Not Classified

Classification (67/548/EEC or 1999/45/EC) F; R11. Xn; R22. Xi; R36/37. Carc. Cat. 3 R40. Repr. Cat. 1 R61. Repr. Cat. 3 R62

2.2. Label elements

Pictogram



Signal word

Danger

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Hazard statements	H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H351 Suspected of causing cancer. H360Df May damage the unborn child. Suspected of damaging fertility. EUH208 Contains Tinuvin P, Thermolite #31. May produce an allergic reaction.
Comments	Full list of Hazard Statements is found in Sec. 16
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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	Methyl Isobutyl Ketone, Isophorone, Dibutyl Phthalate
Supplementary precautionary statements	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. 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 vapour/spray. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. 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. P312 Call a POISON CENTER/doctor if you feel unwell. P330 Rinse mouth. P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Methyl Isobutyl Ketone	30-60%
CAS number: 108-10-1	EC number: 203-550-1
Classification	
Flam. Liq. 2 - H225	
Acute Tox. 4 - H332	
Eye Irrit. 2 - H319	
Carc. 2 - H351	
STOT SE 3 - H335	

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Isophorone	10-30%
CAS number: 78-59-1	EC number: 201-126-0
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Eye Irrit. 2 - H319 Carc. 2 - H351 STOT SE 3 - H335	Classification (67/548/EEC or 1999/45/EC) Xn; R22, R21. Xi; R36/37. Carc. Cat. 3 R40
Dibutyl Phthalate	<1%
CAS number: 84-74-2	EC number: 201-557-4
M factor (Acute) = 10	
Classification Repr. 1B - H360Df Aquatic Acute 1 - H400	Classification (67/548/EEC or 1999/45/EC) Repr. Cat. 1 R61. Repr. Cat. 3 R62. N; R50
Proprietary - Additive - Light Stabilizer	<1%
CAS number: Proprietary	EC number: Proprietary
M factor (Chronic) = 1	REACH registration number: Proprietary
Classification Acute Tox. 3 - H331 Skin Sens. 1B - H317 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) N; R50/53. R43
Proprietary - Additive - Heat Stabilizer	<1%
CAS number: Proprietary	EC number: Proprietary
M factor (Acute) = 1	M factor (Chronic) = 1
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Muta. 2 - H341 Repr. 1B - H360Fd STOT SE 1 - H370 STOT RE 1 - H372 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) T; R48/23/24/25, R39/23/24/25. Xn; R22. Xi; R36/38. Muta. Cat. 3 R68. Repr. Cat. 1 R60. Repr. Cat. 3 R63. N; R50/53. R43

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

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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. Rinse mouth thoroughly with water. 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 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.

4.2. Most important symptoms and effects, both acute and delayed

General information	See Section 11 for additional information on health hazards.
Inhalation	May cause respiratory irritation. May cause nausea, headache, dizziness and intoxication.
Ingestion	Harmful if swallowed. May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.
Skin contact	This product is moderately irritating. 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: Pain or irritation. Profuse watering of the eyes. Conjunctivitis, irritation, tearing. Redness.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	None known.

5.2. Special hazards arising from the substance or mixture

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 (CO ₂). Carbon monoxide (CO).

5.3. 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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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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.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment.

6.3. 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.

6.4. 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.

SECTION 7: Handling and storage

7.1. 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.

7.2. 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.

7.3. Specific end use(s)

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

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Methyl Isobutyl Ketone

Long-term exposure limit (8-hour TWA): WEL 20 ppm 83 mg/m³ Austria, Belgium, Denmark, European Union, France, Germany (AGS), Germany (DFG), Ireland, Italy, Latvia, Spain, Switzerland

Long-term exposure limit (8-hour TWA): WEL 20 ppm 80 mg/m³ Finland

Long-term exposure limit (8-hour TWA): WEL 83 mg/m³ Hungary, Poland

Long-term exposure limit (8-hour TWA): WEL 25 ppm 100 mg/m³ Sweden

Long-term exposure limit (8-hour TWA): WEL 104 mg/m³ The Netherlands

Long-term exposure limit (8-hour TWA): WEL 50 ppm 208 mg/m³ United Kingdom

Short-term exposure limit (15-minute): WEL 50 ppm 208 mg/m³ Austria, Belgium, European Union, France, Ireland, Italy, Latvia, Spain

Short-term exposure limit (15-minute): WEL 40 ppm 166 mg/m³ Denmark, Germany (AGS), Germany (DFG), Switzerland

Short-term exposure limit (15-minute): WEL 50 ppm 210 mg/m³ Finland

Short-term exposure limit (15-minute): WEL 208 mg/m³ Hungary, The Netherlands

Short-term exposure limit (15-minute): WEL 200 mg/m³ Poland

Short-term exposure limit (15-minute): WEL 50 ppm 200 mg/m³ Sweden

Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m³ United Kingdom

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Isophorone

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Long-term exposure limit (8-hour TWA): WEL 2 ppm 11 mg/m³ Austria, Germany (AGS), Germany (DFG), Switzerland

Long-term exposure limit (8-hour TWA): WEL 5 ppm 25 mg/m³ Denmark

Long-term exposure limit (8-hour TWA): WEL 1 ppm 5.7 mg/m³ Finland

Short-term exposure limit (15-minute): WEL 2 ppm 11 mg/m³ Austria

Short-term exposure limit (15-minute): WEL 5 ppm 28 mg/m³ Belgium

Short-term exposure limit (15-minute): WEL 5 ppm 25 mg/m³ Denmark, France, Ireland

Short-term exposure limit (15-minute): WEL 4 ppm 22 mg/m³ Germany (AGS), Germany (DFG), Switzerland

Short-term exposure limit (15-minute): WEL 5 ppm 29 mg/m³ Spain, United Kingdom

Short-term exposure limit (15-minute): WEL 5 ppm 30 mg/m³ Sweden

Dibutyl Phthalate

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³ Austria, Belgium, France, Ireland, Poland, Spain, United Kingdom

Long-term exposure limit (8-hour TWA): WEL 3 mg/m³ Denmark, Sweden

Long-term exposure limit (8-hour TWA): WEL 0.05 ppm 0.58 mg/m³ Germany (AGS), Germany (DFG)

Long-term exposure limit (8-hour TWA): WEL 0.5 mg/m³ Latvia

Long-term exposure limit (8-hour TWA): WEL 0.05 ppm 0.8 mg/m³ Switzerland

Short-term exposure limit (15-minute): WEL 6 mg/m³ Denmark

Short-term exposure limit (15-minute): WEL 0.1 ppm 1.16 mg/m³ Germany (AGS), Germany (DFG)

Short-term exposure limit (15-minute): WEL 10 mg/m³ Ireland, Poland, United Kingdom

Short-term exposure limit (15-minute): WEL 5 mg/m³ Sweden

Short-term exposure limit (15-minute): WEL 0.1 ppm 1.16 mg/m³ Switzerland

Proprietary - Additive - Heat Stabilizer

Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m³ vapour

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

8.2. 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.

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 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.

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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.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Clear, yellowish liquid.
Colour	White.
Odour	Ketonic.
Odour threshold	Not available.
pH	pH (concentrated solution): 6.0 - 8.5
Melting point	-8°C/18°F
Initial boiling point and range	117°C/243°F @ 760 mm Hg
Flash point	14°C/57°F CC (Closed cup).
Evaporation rate	0.02 (butyl acetate = 1)
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 8 % vol Lower flammable/explosive limit: 0.8 % vol
Vapour pressure	15 mm Hg @ 20°C/68°F
Vapour density	4.77
Relative density	0.963 g/cc 963 g/l 8.02 lbs/gal
Solubility(ies)	Soluble in the following materials: Ketones. Slightly soluble in water.
Partition coefficient	log Pow: 1.31
Auto-ignition temperature	462°C/863.6°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.

9.2. Other information

Volatile organic compound This product contains a maximum VOC content of 793 g/l. This product contains a maximum VOC content of 6.61 lbs/gal.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions The following materials may react with the product: Strong acids. Strong alkalis. Strong oxidising agents.

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10.4. Conditions to avoid

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

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Data based on literature. Product not tested.

Acute toxicity - oral

ATE oral (mg/kg) 1,728.91

Acute toxicity - dermal

ATE dermal (mg/kg) 3,803.6

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 21.38

ATE inhalation (dusts/mists mg/l) 421.43

Specific target organ toxicity - single exposure

Target organs Eyes Respiratory system, lungs Skin

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

Aspiration hazard Not relevant.

Toxicological information on ingredients.

Methyl Isobutyl Ketone

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,080.0

Species Rat

ATE oral (mg/kg) 2,080.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 16,000.0

Species Rabbit

ATE dermal (mg/kg) 16,000.0

Acute toxicity - inhalation

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ATE inhalation (vapours mg/l) 11.0

Carcinogenicity

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

Isophorone

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 1870 mg/kg, Oral, Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LD₅₀ 4600 ppm, Inhalation, Guinea pig

Dibutyl Phthalate

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 25,000 mg/kg, Oral, Rat LD₅₀ > 2096 mg/kg, Dermal, Guinea pig LD₅₀ 20,960 mg/kg, Dermal, Rabbit

Skin corrosion/irritation

Animal data Slightly irritating.

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating.

Proprietary - Additive - Light Stabilizer

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 10,000.0

Species Rat

ATE oral (mg/kg) 10,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.1

Species Rat

ATE dermal (mg/kg) 2,000.1

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 0.59

Species Rat

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ATE inhalation 0.59
(dusts/mists mg/l)

Proprietary - Additive - Heat Stabilizer

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 510 - 4439 - organo tin compound mg/kg, Oral, Rat LD₅₀ 1516 - 2774 - ethylhexanol mg/kg, Oral, Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ 777 - organo tin compound mg/kg, Dermal, Rat LD₅₀ > 3000 - ethylhexanol mg/kg, Dermal, Rat LD₅₀ > 2600 - ethylhexanol mg/kg, Dermal, Rabbit

ATE dermal (mg/kg) 1,100.0

SECTION 12: Ecological Information

Ecotoxicity Data based on literature. Product not tested.

Ecological information on ingredients.

Proprietary - Additive - Heat Stabilizer

Ecotoxicity Very toxic to aquatic life with long lasting effects.

12.1. Toxicity

Ecological information on ingredients.

Methyl Isobutyl Ketone

Acute toxicity - fish LC₅₀, 48 hours: 480 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: 1550 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 48 hours: 980 mg/l, Desmodemus subspicatus

Isophorone

Acute toxicity - fish NOEC, 96 hours: 170 mg/l, Cyprinodon variegatus (Sheepshead minnow)
LC₅₀, 96 hours: 145 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates LC₅₀, 48 hours: 120 mg/l, Daphnia magna

Dibutyl Phthalate

Acute aquatic toxicity

LE(C)₅₀ 0.01 < L(E)C50 ≤ 0.1

M factor (Acute) 10

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Acute toxicity - fish	LC ₅₀ , 96 hours: 0.92 mg/l, Pimephales promelas (Fat-head Minnow)
	NOEC, 96 hours: 0.32 mg/l, Pimephales promelas (Fat-head Minnow)
	LC ₅₀ , 96 hours: 1.6 mg/l, Onchorhynchus mykiss (Rainbow trout)
	NOEC, 96 hours: 0.5 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 3.0 hours: mg/l, Daphnia magna
	NOEC, 48 hours: 1.7 mg/l, Daphnia magna

Proprietary - Additive - Light Stabilizer

Acute toxicity - fish	LC ₅₀ , 96 hours: >0.17 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 24 hours: > 1000 mg/l, Daphnia magna

Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity - fish early life stage Scientifically unjustified.

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.013 mg/l, Daphnia magna

Proprietary - Additive - Heat Stabilizer

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish EC₅₀, 96 hours: > 10.75 - organo tin compound mg/l, Fish
EC₅₀, 96 hours: 11.7 - organo tin compound mg/l, Brachydanio rerio (Zebra Fish)
EC₅₀, 96 hours: 32 - 37 - ethyl hexanol mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.035 - organo tin compound mg/l, Daphnia magna
EC₅₀, 21 days: 0.64 - organo tin compound mg/l, Daphnia magna

Chronic aquatic toxicity

M factor (Chronic) 1

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Partition coefficient log Pow: 1.31

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. 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.

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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.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1210
UN No. (IMDG)	1210
UN No. (ICAO)	1210
UN No. (ADN)	1210

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	PRINTING INK
Proper shipping name (IMDG)	PRINTING INK
Proper shipping name (ICAO)	PRINTING INK
Proper shipping name (ADN)	PRINTING INK

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels



14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II
ADN packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

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EmS	F-E, S-D
ADR transport category	2
Emergency Action Code	•3YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

15.2. Chemical safety assessment

US Federal Regulations

Hazardous Air Pollutants (HAPS) - Clean Air Act Isophorone, Methyl Isobutyl Ketone

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

The following ingredients are listed or exempt:

Methyl Isobutyl Ketone

Isophorone

Dibutyl Phthalate

Proprietary - Additive - Heat Stabilizer

Japan - MITI

The following ingredients are listed or exempt:

Methyl Isobutyl Ketone

Isophorone

Dibutyl Phthalate

Proprietary - Additive - Heat Stabilizer

Korea - KECI

The following ingredients are listed or exempt:

Methyl Isobutyl Ketone

Isophorone

Dibutyl Phthalate

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Proprietary - Additive - Heat Stabilizer

China - IECSC

The following ingredients are listed or exempt:

Methyl Isobutyl Ketone

Isophorone

Proprietary - Additive - Heat Stabilizer

Philippines – PICCS

The following ingredients are listed or exempt:

Methyl Isobutyl Ketone

Isophorone

Proprietary - Additive - Heat Stabilizer

SECTION 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.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision. Revised classification. Revised Country Inventory Revised State Registrations
Issued by	Matthews Marking Systems - Chemical Services Department
Revision date	31/12/2015
Revision	2
Supersedes date	01/06/2015
SDS number	5332
SDS status	Approved.
Risk phrases in full	<p>R11 Highly flammable.</p> <p>R20 Harmful by inhalation.</p> <p>R21 Harmful in contact with skin.</p> <p>R22 Harmful if swallowed.</p> <p>R36/37 Irritating to eyes and respiratory system.</p> <p>R36/38 Irritating to eyes and skin.</p> <p>R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.</p> <p>R40 Limited evidence of a carcinogenic effect.</p> <p>R43 May cause sensitisation by skin contact.</p> <p>R48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.</p> <p>R50 Very toxic to aquatic organisms.</p> <p>R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R60 May impair fertility.</p> <p>R61 May cause harm to the unborn child.</p> <p>R62 Possible risk of impaired fertility.</p> <p>R63 Possible risk of harm to the unborn child.</p> <p>R66 Repeated exposure may cause skin dryness or cracking.</p> <p>R68 Possible risk of irreversible effects.</p>

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Hazard statements in full

EUH208 Contains Thermolite #31, Tinuvin P. May produce an allergic reaction.
H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.
H360Df May damage the unborn child. Suspected of damaging fertility.
H360Fd May damage fertility. Suspected of damaging the unborn child.
H370 Causes damage to organs (Blood, thymus).
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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