



SAFETY DATA SHEET

L-9219 Make-up Solution

1. Identification

Product identifier

Product name L-9219 Make-up Solution

Product number 71001171,71002823,71002822,71001174

Container size 5 Gallon Pail,6 x 1/2 Liter,6 x 1/2 Liter,6 x 1 Liter

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 STOT SE 3 - H336

Environmental hazards Not Classified

Label elements

Pictogram



Signal word Danger

Hazard statements H225 Highly flammable liquid and vapor.
H336 May cause drowsiness or dizziness.

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

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Precautionary statements	<p>P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>P240 Ground/bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P261 Avoid breathing vapor/spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</p> <p>P312 Call a poison center/doctor if you feel unwell.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>
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Contains Methyl ethyl ketone - MEK

3. Composition/information on ingredients

Mixtures

<p>Methyl Ethyl Ketone</p> <p>CAS number: 78-93-3</p>	<p>60-100%</p>
<p>Classification</p> <p>Flam. Liq. 2 - H225</p> <p>Eye Irrit. 2 - H319</p> <p>STOT SE 3 - H336</p>	

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. Aspiration hazard if swallowed. Do not induce vomiting. 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. 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 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

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General information	See Section 11 for additional information on health hazards.
Inhalation	May cause respiratory system irritation. Vapor 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 immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

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.

Environmental precautions

Environmental precautions Avoid release to the environment.

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.

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

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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.

Conditions for safe storage, including any incompatibilities

Storage precautions	Keep only in the original container in a cool, well-ventilated place.
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Specific end uses(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Methyl Ethyl Ketone

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

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

Ingredient comments	Data based on literature. Product not tested.
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Methyl Ethyl Ketone (CAS: 78-93-3)

Immediate danger to life and health 3000 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.

Hand protection

It is recommended that chemical-resistant, impervious gloves are worn.

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.

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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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Colorless liquid.
Color	Clear. Water-white.
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: 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	0.805 g/cc 805 g/l 6.71 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. Data based on literature. Product not tested.
Volatile organic compound	This product contains a maximum VOC content of 905 g/l.

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.
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.
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 Data based on literature. Product not tested.

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

Target organs 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 (LD₅₀ mg/kg) 2,600.0

Species Rat

ATE oral (mg/kg) 2,600.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 6,400.0

Species Rabbit

ATE dermal (mg/kg) 6,400.0

Acute toxicity - inhalation

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

Species Mouse

ATE inhalation (vapours mg/l) 32,000.0

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)

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.

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Disposal methods Dispose 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) 1193

UN No. (IMDG) 1193

UN No. (ICAO) 1193

UN proper shipping name

Proper shipping name (DOT) ETHYL METHYL KETONE (METHYL ETHYL KETONE)

Proper shipping name (IMDG) ETHYL METHYL KETONE (METHYL ETHYL KETONE)

Proper shipping name (ICAO) ETHYL METHYL KETONE (METHYL ETHYL KETONE)

Transport hazard class(es)

IMDG Class 3

ICAO class/division 3

Transport labels



Packing group

DOT pack group II

IMDG packing group II

ICAO 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)

Methyl Ethyl Ketone

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

SARA 313 Emission Reporting

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Methyl Ethyl Ketone

All the ingredients are listed or exempt.

SARA (311/312) Hazard Categories

Methyl Ethyl Ketone

OSHA Highly Hazardous Chemicals

Methyl Ethyl Ketone

Hazardous Air Pollutants Methyl ethyl ketone - MEK
(HAPS) - Clean Air Act

US State Regulations

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

Methyl Ethyl Ketone

Present

California Directors List of Hazardous Substances

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

Rhode Island "Right To Know" List

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

Minnesota "Right To Know" List

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

New Jersey "Right To Know" List

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

Methyl Ethyl Ketone

Present

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

Methyl Ethyl Ketone

ELINCS

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Canada - DSL/NDSL

All the ingredients are listed or exempt.

Methyl Ethyl Ketone

DSL

US - TSCA

All the ingredients are listed or exempt.

Methyl Ethyl Ketone

Present

Australia - AICS

All the ingredients are listed or exempt.

Methyl Ethyl Ketone

Present

Japan - MITI

All the ingredients are listed or exempt.

Methyl Ethyl Ketone

Present

Korea - KECI

All the ingredients are listed or exempt.

Methyl Ethyl Ketone

Present

China - IECSC

The following ingredients are listed or exempt:

Philippines – PICCS

All the 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.	4913
SDS status	Approved.
Hazard statements in full	H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
NFPA - flammability hazard	Ignites easily. (3)

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NFPA - health hazard	Irritation, minor residual injury. (1)
NFPA - instability hazard	Normally stable. (0)
ACA HMIS Health rating.	Slight hazard. (1)
ACA HMIS Physical hazard rating.	Normally stable. (0)
ACA HMIS Personal protection rating.	B
ACA HMIS Flammability rating.	Ignites easily. (3)

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.