



# Safety Data Sheet

Issue Date: 05-Jan-2012

Revision Date: 23-Feb-2021

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** Type M Red and Orange

### Other means of identification

**SDS #** USM-008

**Product Code** IU-M24, IU-M2QT, IU-M2QTH, IU-M2GL

**UN/ID No** UN1210

### Recommended use of the chemical and restrictions on use

**Recommended Use** Printing ink.

### Details of the supplier of the safety data sheet

#### Manufacturer Address

PANNIER CORPORATION  
207 Sandusky Street  
Pittsburgh, PA 15212-5823 PH:  
412-323-4900

Email: [sales@pannier.com](mailto:sales@pannier.com)

#### Emergency telephone number

Emergency Telephone INFOTRAC: 1-800-535-5053

## 2. HAZARDS IDENTIFICATION

**Appearance** Red liquid

**Physical state** Liquid

**Odor** Alcohol

### Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1A
Flammable liquids	Category 2

### Signal Word

**Danger**

### Hazard statements

Harmful if inhaled

Causes skin irritation

Causes serious eye damage

May cause cancer

Highly flammable liquid and vapor



**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Wash face, hands and any exposed skin thoroughly after handling  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Use explosion-proof equipment

**Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a poison center or doctor/physician  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 If skin irritation occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards**

Harmful to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Ethanol	64-17-5	44-52
Glycol Ether EB	111-76-2	26-29
Cellulose nitrate	9004-70-0	3-7
n-Propyl Alcohol	71-23-8	2-3
Methylisobutyl ketone	108-10-1	1-2
Solvent naphtha (petroleum), light aliphatic	64742-89-8	<1
N-Heptane	142-82-5	<1
n-Butyl acetate	123-86-4	<1
Toluene	108-88-3	Trace
Acetaldehyde	75-07-0	Trace

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST AID MEASURES

**Description of first aid measures****Eye Contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.  
 Get immediate medical advice/attention.

<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. If irritation persists or feeling unwell, obtain medical advice.
<b>Inhalation</b>	Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison center if individual's condition declines or if symptoms persist.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

**Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	Causes skin irritation and serious eye damage. Harmful if inhaled. May be harmful if swallowed. May be harmful in contact with skin. May cause irritation to the mucous membranes and upper respiratory tract.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Water fog or fine spray, carbon dioxide, dry chemical or foam.

**Unsuitable Extinguishing Media** Direct water stream may spread fire.

**Specific Hazards Arising from the Chemical**

Highly flammable liquid and vapor. Vapors may travel to source of ignition and flash back.

**Hazardous combustion products** Carbon oxides.

**Explosion Data**

**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames. Take precautionary measures against static discharge.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Remove all sources of ignition & ventilate area. Evacuate unnecessary personnel.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an inert (i.e. vermiculite, dry sand or earth) absorbent material.

**Methods for Clean-Up** Use clean non-sparking tools to collect absorbed material. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Advice on Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when handling this product. Use personal protection recommended in Section 8. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only with adequate ventilation. Ground/bond container and receiving equipment. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use spark-proof tools and explosion-proof equipment. Keep container tightly closed. Take precautionary measures against static discharges. Avoid contact with skin, eyes or clothing.

### Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

#### Incompatible Materials

Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
Glycol Ether EB 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>
n-Propyl Alcohol 71-23-8	TWA: 100 ppm	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 500 mg/m <sup>3</sup> (vacated) STEL: 250 ppm (vacated) STEL: 625 mg/m <sup>3</sup>	IDLH: 800 ppm TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 250 ppm STEL: 625 mg/m <sup>3</sup>
Methylisobutyl ketone 108-10-1	STEL: 75 ppm TWA: 20 ppm	TWA: 100 ppm TWA: 410 mg/m <sup>3</sup> (vacated) TWA: 50 ppm (vacated) TWA: 205 mg/m <sup>3</sup> (vacated) STEL: 75 ppm (vacated) STEL: 300 mg/m <sup>3</sup>	IDLH: 500 ppm TWA: 50 ppm TWA: 205 mg/m <sup>3</sup> STEL: 75 ppm STEL: 300 mg/m <sup>3</sup>
n-Butyl acetate 123-86-4	STEL: 150 ppm TWA: 50 ppm	TWA: 150 ppm TWA: 710 mg/m <sup>3</sup> (vacated) TWA: 150 ppm (vacated) TWA: 710 mg/m <sup>3</sup> (vacated) STEL: 200 ppm (vacated) STEL: 950 mg/m <sup>3</sup>	IDLH: 1700 ppm TWA: 150 ppm TWA: 710 mg/m <sup>3</sup> STEL: 200 ppm STEL: 950 mg/m <sup>3</sup>
N-Heptane 142-82-5	STEL: 500 ppm TWA: 400 ppm	TWA: 500 ppm TWA: 2000 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 1600 mg/m <sup>3</sup> (vacated) STEL: 500 ppm (vacated) STEL: 2000 mg/m <sup>3</sup>	IDLH: 750 ppm Ceiling: 440 ppm 15 min Ceiling: 1800 mg/m <sup>3</sup> 15 min TWA: 85 ppm TWA: 350 mg/m <sup>3</sup>
n-Propyl acetate 109-60-4	STEL: 150 ppm TWA: 100 ppm	TWA: 200 ppm TWA: 840 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 840 mg/m <sup>3</sup> (vacated) STEL: 250 ppm (vacated) STEL: 1050 mg/m <sup>3</sup>	IDLH: 1700 ppm TWA: 200 ppm TWA: 840 mg/m <sup>3</sup> STEL: 250 ppm STEL: 1050 mg/m <sup>3</sup>

Acetaldehyde 75-07-0	Ceiling: 25 ppm	TWA: 200 ppm TWA: 360 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 180 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 270 mg/m <sup>3</sup>	IDLH: 2000 ppm
Toluene 108-88-3	TWA: 20 ppm	TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m <sup>3</sup> Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> STEL: 150 ppm STEL: 560 mg/m <sup>3</sup>

**Appropriate engineering controls****Engineering Controls**

Apply technical measures to comply with the occupational exposure limits. Maintain eye wash fountain and quick-drench facilities in work area. Local exhaust ventilation recommended.

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

Use safety glasses or chemical splash goggles. Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection**

Gloves are recommended. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection**

MSHA/ NIOSH-approved vapor respirator is recommended with handling in areas where adequate ventilation is not available. Refer to 29 CFR 1910.134 for respiratory protection requirements.

**General Hygiene Considerations**

Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

Physical state	Liquid	Odor	Alcohol
Appearance	Red liquid	Odor Threshold	Not determined
Color	Red		
<b>Property</b>	<b>Values</b>	<b><u>Remarks • Method</u></b>	
pH	Not determined		
Melting point / freezing point	Not determined		
Boiling point / boiling range	Not determined		
Flash point	14.83 °C / 58.7 °F		
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Not determined		
Flammability Limit in Air			
Upper flammability or explosive limits	Not determined		
Lower flammability or explosive limits	Not determined		
Vapor Pressure	Not determined		
Vapor Density	Heavier than air	. ? (air = 1)	
Relative Density	Not determined		
Water Solubility	Not determined		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		

<b>Autoignition temperature</b>	Not determined
<b>Decomposition temperature</b>	Not determined
<b>Kinematic viscosity</b>	Not determined
<b>Dynamic Viscosity</b>	Not determined
<b>Explosive Properties</b>	Not determined
<b>Oxidizing Properties</b>	Not determined

**Other information**

<b>VOC Content (%)</b>	77.65
<b>Liquid Density</b>	7.38 lbs/gal

## 10. STABILITY AND REACTIVITY

**Reactivity**

Not reactive under normal conditions.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to Avoid**

Heat, sparks and open flames.

**Incompatible materials**

Strong oxidizing agents.

**Hazardous decomposition products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

<b>Eye Contact</b>	Avoid contact with eyes.
<b>Skin Contact</b>	May be harmful in contact with skin.
<b>Inhalation</b>	Harmful if inhaled.
<b>Ingestion</b>	May be harmful if swallowed.

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
Glycol Ether EB 111-76-2	= 470 mg/kg (Rat)	= 435 mg/kg (Rabbit)	= 486 ppm (Rat) 4 h = 450 ppm (Rat) 4 h
Cellulose nitrate 9004-70-0	> 5 g/kg (Rat)	-	-
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
n-Propyl Alcohol 71-23-8	= 1870 mg/kg (Rat)	= 4049 mg/kg (Rabbit)	> 13548 ppm (Rat) 4 h
Methylisobutyl ketone 108-10-1	= 2080 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	2000 - 4000 ppm (Rat) 4 h

n-Butyl acetate 123-86-4	= 10768 mg/kg (Rat)	> 17600 mg/kg (Rabbit)	= 390 ppm (Rat) 4 h
N-Heptane 142-82-5	-	= 3000 mg/kg (Rabbit)	= 103 g/m <sup>3</sup> (Rat) 4 h
Solvent naphtha (petroleum), light aliphatic 64742-89-8	-	= 3000 mg/kg (Rabbit)	-
n-Propyl acetate 109-60-4	= 8700 mg/kg (Rat)	> 17756 mg/kg (Rabbit)	-
Acetaldehyde 75-07-0	= 660 mg/kg (Rat)	= 3540 mg/kg (Rabbit)	= 13000 ppm (Rat) 4 h
Toluene 108-88-3	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat) 4 h

### Symptoms related to the physical, chemical and toxicological characteristics

#### Symptoms

Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Carcinogenicity

May cause cancer. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage. Nitrate or nitrite ingested under conditions that result in endogenous nitrosation are considered IARC group 2A carcinogens.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethanol 64-17-5	A3	Group 1	Known	X
Glycol Ether EB 111-76-2	A3	Group 3		
Cellulose nitrate 9004-70-0		Group 2A		X
Methylisobutyl ketone 108-10-1	A3	Group 2B		X
Acetaldehyde 75-07-0	A2	Group 1 Group 2B	Reasonably Anticipated	X
Toluene 108-88-3		Group 3		

#### Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 IARC components are "not classifiable as human carcinogens"

**NTP (National Toxicology Program)**

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

Oral LD50 3,140.80 mg/kg

Dermal LD50 3,600.80 mg/kg

ATEmix (inhalation-dust/mist) 4.74 mg/L

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic life with long lasting effects.

### Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Ethanol 64-17-5		13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 12.0 - 16.0: 96 h Oncorhynchus mykiss mg/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static	10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static 9268 - 14221: 48 h Daphnia magna mg/L LC50
Glycol Ether EB 111-76-2		2950: 96 h Lepomis macrochirus mg/L LC50 1490: 96 h Lepomis macrochirus mg/L LC50 static	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50
n-Propyl Alcohol 71-23-8		4480: 96 h Pimephales promelas mg/L LC50 flow-through	3642: 48 h Daphnia magna mg/L EC50 3339 - 3977: 48 h Daphnia magna mg/L EC50 Static
Methylisobutyl ketone 108-10-1	400: 96 h Pseudokirchneriella subcapitata mg/L EC50	496 - 514: 96 h Pimephales promelas mg/L LC50 flow-through	170: 48 h Daphnia magna mg/L EC50
n-Butyl acetate 123-86-4	674.7: 72 h Desmodesmus subspicatus mg/L EC50	100: 96 h Lepomis macrochirus mg/L LC50 static 17 - 19: 96 h Pimephales promelas mg/L LC50 flow-through 62: 96 h Leuciscus idus mg/L LC50 static	72.8: 24 h Daphnia magna mg/L EC50
N-Heptane 142-82-5		375.0: 96 h Cichlid fish mg/L LC50	10: 24 h Daphnia magna mg/L EC50
Solvent naphtha (petroleum), light aliphatic 64742-89-8	4700: 72 h Pseudokirchneriella subcapitata mg/L EC50		
n-Propyl acetate 109-60-4		56 - 64: 96 h Pimephales promelas mg/L LC50 static 56 - 64: 96 h Pimephales promelas mg/L LC50 flow-through	318: 24 h Daphnia magna mg/L EC50
Acetaldehyde 75-07-0	237 - 249: 120 h Nitzschia linearis mg/L EC50	28.0 - 34.0: 96 h Pimephales promelas mg/L LC50 flow-through 39.8 - 46.8: 96 h Pimephales promelas mg/L LC50 static 53: 96 h Lepomis macrochirus mg/L LC50 static 1.8 - 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static	3.64 - 6.15: 48 h Daphnia magna mg/L EC50 Static 48.3: 48 h Daphnia magna mg/L EC50
Toluene 108-88-3	12.5: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 433: 96 h Pseudokirchneriella subcapitata mg/L EC50	12.6: 96 h Pimephales promelas mg/L LC50 static 15.22 - 19.05: 96 h Pimephales promelas mg/L LC50 flow-through 5.89 - 7.81: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 5.8: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 50.87 - 70.34: 96 h Poecilia reticulata mg/L LC50 static 54: 96 h Oryzias latipes mg/L LC50 static 28.2: 96 h Poecilia reticulata mg/L LC50 semi-static 11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static 14.1 - 17.16: 96 h Oncorhynchus mykiss mg/L LC50 static	11.5: 48 h Daphnia magna mg/L EC50 5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static

### Persistence/Degradability

Not determined.

### Bioaccumulation

There is no data for this product.



**Mobility**

Chemical name	Partition coefficient
Ethanol 64-17-5	-0.32
Glycol Ether EB 111-76-2	0.81
n-Propyl Alcohol 71-23-8	0.34
Methylisobutyl ketone 108-10-1	1.19
N-Heptane 142-82-5	4.66
n-Butyl acetate 123-86-4	1.81
Toluene 108-88-3	2.7
Acetaldehyde 75-07-0	0.5

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**US EPA Waste Number**

D001

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methylisobutyl ketone 108-10-1		Included in waste stream: F039		U161
Acetaldehyde 75-07-0				U001
Toluene 108-88-3	U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		U220

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Toluene 108-88-3			Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	

**California Hazardous Waste Status**

Chemical name	California Hazardous Waste Status
Ethanol 64-17-5	Toxic Ignitable
Cellulose nitrate 9004-70-0	Ignitable in ether and alcohol Reactive in ether and alcohol
n-Propyl Alcohol 71-23-8	Toxic Ignitable
N-Heptane 142-82-5	Toxic Ignitable
n-Butyl acetate 123-86-4	Toxic
Toluene 108-88-3	Toxic Ignitable
Acetaldehyde 75-07-0	Toxic Ignitable

**14. TRANSPORT INFORMATION****Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

UN/ID No UN1210  
 Proper Shipping Name Printing ink  
 Hazard class 3  
 Packing Group II

**IATA**

UN number UN1210  
 Proper Shipping Name Printing ink  
 Transport hazard class(es) 3  
 Packing Group II

**IMDG**

UN number UN1210  
 Proper Shipping Name Printing ink  
 Transport hazard class(es) 3  
 Packing Group II

**15. REGULATORY INFORMATION****International Inventories**

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Ethanol	X	ACTIVE	X	X	X	X	X	X	X
Glycol Ether EB	X	ACTIVE	X	X	X	X	X	X	X
Cellulose nitrate	X	ACTIVE	X		X	X	X	X	X
n-Propyl Alcohol	X	ACTIVE	X	X	X	X	X	X	X
Methylisobutyl ketone	X	ACTIVE	X	X	X	X	X	X	X
n-Butyl acetate	X	ACTIVE	X	X	X	X	X	X	X
N-Heptane	X	ACTIVE	X	X	X	X	X	X	X
Solvent naphtha (petroleum), light aliphatic	X	ACTIVE	X	X		X	X	X	X
n-Propyl acetate	X	ACTIVE	X	X	X	X	X	X	X
Acetaldehyde	X	ACTIVE	X	X	X	X	X	X	X
Toluene	X	ACTIVE	X	X	X	X	X	X	X

**Legend:***TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS - Japan Existing and New Chemical Substances**IECSC - China Inventory of Existing Chemical Substances**KECL - Korean Existing and Evaluated Chemical Substances**PICCS - Philippines Inventory of Chemicals and Chemical Substances**AICS - Australian Inventory of Chemical Substances***US Federal Regulations****CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Methylisobutyl ketone 108-10-1	5000 lb.		RQ 5000 lb. final RQ RQ 2270 kg final RQ
n-Butyl acetate 123-86-4	5000 lb.		RQ 5000 lb. final RQ RQ 2270 kg final RQ
Acetaldehyde 75-07-0	1000 lb.		RQ 1000 lb. final RQ RQ 454 kg final RQ
Toluene 108-88-3	1000 lb. 1 lb.		RQ 1000 lb. final RQ RQ 454 kg final RQ RQ 1 lb. final RQ RQ 0.454 kg final RQ

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Glycol Ether EB - 111-76-2	111-76-2	26-29	1.0
Methylisobutyl ketone - 108-10-1	108-10-1	1-2	1.0
Acetaldehyde - 75-07-0	75-07-0	Trace	0.1
Toluene - 108-88-3	108-88-3	Trace	1.0

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
n-Butyl acetate	5000 lb.			X
Toluene	1000 lb.	X	X	X
Acetaldehyde	1000 lb.			X

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Ethanol - 64-17-5	Carcinogen Developmental
Methylisobutyl ketone - 108-10-1	Carcinogen Developmental
Toluene - 108-88-3	Developmental
Acetaldehyde - 75-07-0	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethanol 64-17-5	X	X	X
Glycol Ether EB 111-76-2	X	X	X
Cellulose nitrate 9004-70-0	X	X	X
n-Propyl Alcohol 71-23-8	X	X	X
Methylisobutyl ketone 108-10-1	X	X	X
n-Butyl acetate 123-86-4	X	X	X
N-Heptane 142-82-5	X	X	X
n-Propyl acetate 109-60-4	X	X	X
Acetaldehyde 75-07-0	X	X	X
Toluene 108-88-3	X	X	X

**16. OTHER INFORMATION****NFPA****Health Hazards**

Not determined

**Flammability**

Not determined

**Instability**

Not determined

**Special Hazards**

Not determined

**HMIS****Health Hazards**

2

**Flammability**

3

**Physical hazards**

0

**Personal Protection**

Not determined

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New format

**Disclaimer**

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End of Safety Data Sheet