

# PANNIER CORPORATION

207 Sandusky Street, Pittsburgh, PA 15212-5823 U.S.A.

412.323.4900

www.pannier.com

## Material Safety Data Sheet

Revision date: November 17, 2009

Revision 1

REA-JET TMC-SW 020

Page 1 of 4

**IMPORTANT:** Read this MSDS before handling and disposing of this product and pass this information on to employees, customers and users of this product.

**24 HOUR EMERGENCY RESPONSE NUMBER: 800-424-9300**

**INTERNATIONAL EMERGENCY RESPONSE NUMBER: 703-527-3887**

### SECTION 1. GENERAL INFORMATION

**TRADE NAME:** TMC-SW 020

**PRODUCT NUMBER:** IJ056-9001-01

**CHEMICAL CHARACTERIZATION:** Mixture of organic solvents, dye, binding agents and auxiliaries.

### SECTION 2. INGREDIENTS

COMPONENTS	CAS Number	Content %
2-Butanone	78-93-3	65-85
2-Butoxy Ethanol	111-76-2	<5
Lactic Acid Ethyl Ester	687-47-8	<5

### SECTION 3. HAZARDOUS IDENTIFICATION

#### Special hazard information with regard to health and environment:

Highly flammable liquid. Irritating to eyes.

Repeated exposure may cause skin dryness or cracking.

Vapors may cause drowsiness and dizziness.

#### Possible noticeable symptoms on humans:

##### 2-Butanone:

Irritating to eyes and respiratory system. Degreasing properties for the skin.

Can cause dizziness, headache, and perceptive trouble.

Can cause depression of the central nervous system.

### SECTION 4. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	liquid	
<b>Color:</b>	black	
<b>Odor:</b>	characteristic	
<b>Boiling point:</b>	~81 °C	
<b>Melting point:</b>	~84 °C	
<b>Flash point:</b>	~ -4 °C	
<b>Autoignition point:</b>	514 °C	Literature value for 2-Butanone
<b>Explosive limits:</b>	lower: 1.8% upper: 11.5%	Literature value for 2-Butanone
<b>Vapor pressure:</b>	~76 mm Hg/ 20 °C	Literature value for 2-Butanone
<b>Vapor density:</b>	~2.4	
<b>pH value:</b>	Not applicable	
<b>Density:</b>	~0.85 g/ml	
<b>Bulk density:</b>	Not applicable due to physical condition	
<b>Viscosity:</b>	Not available	
<b>Solubility in water:</b>	Slightly soluble in water	

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Page 2 of 4

### SECTION 5. FIRST AID MEASURES

#### General advice:

Take off immediately all contaminated clothing. If there is a risk that person is losing consciousness, lay person down and move person safely on their side.

#### Inhalation:

Move person to fresh air. If there is respiratory distress, give artificial respiration and seek medical attention.

#### Skin contact:

Wash affected area with soap and copious amounts of water

#### Eye contact:

Remove contact lenses if applicable. Rinse immediately with copious amounts of water (at least 15 minutes long), holding eyelids apart.

Seek medical attention.

#### Ingestion:

DO NOT INDUCE VOMITING. Encourage the casualty to drink water to dilute stomach. Avoid alcoholic drinks as this will enhance toxic effects. Seek medical advice.

### SECTION 6. FIRE FIGHTING MEASURES

The product is highly flammable. Do not allow the product to enter sewers, basement or ground water.

#### Extinguishing media:

Use dry powder, especially near electrical equipment. Carbon dioxide or alcohol resistant foam or water spray may be used.

Do not use: Water jet

#### Hazards due to gas formation and/or decomposition products:

Combustion vapors may be toxic. Hazardous polymerization will not occur.

### SECTION 7. ACCIDENTAL RELEASE MEASURES

Do not allow to enter drains. Shut off all sources of ignition and wear protective clothing. Mop or soak up small spills with inert material such as sand and remove to a safe place for disposal. Flush contaminated area with plenty of water. Dispose of product and of all cloth and cleaning agents contaminated by the product in accordance with applicable regulations.

### SECTION 8. HANDLING AND STORAGE

#### Handling:

Take usual precautionary measures when handling chemicals.

Avoid contact with skin and eyes and avoid inhaling vapor.

Open and handle container with care.

Take measures against static discharges.

#### Fire prevention:

Avoid heat and all sources of ignition.

#### Storage:

Store in a flameproof cabinet away from all sources of ignition.

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Page 3 of 4

### SECTION 9. PERSONAL PROTECTION

#### Exposure Limits:

Chemical Name	CAS No.	Long term (8 hrs)		Short term (10 min)	
		ppm	mg/m3	ppm	mg/m3
2-Butanone	78-93-3	200	600	300	899
2-Butoxy Ethanol	111-76-2	25	123 (skin)	Nda	Nda

#### Respiratory protection:

If no exhauster available, wear breathing filter Class A (brown) organic vapors.

#### Protective gloves:

Wear impermeable protective gloves (Butyl rubber). Latex gloves are only resistant to a limited extent.

#### Eye protection:

Wear safety glasses/goggles with lateral protection.

#### Hygiene measures:

Keep away from food, drink and animal feed. Wash hands at breaks and end of day. Do not eat, drink or smoke around product.

**DO NOT USE THIS PRODUCT FOR CLEANING SKIN OR CLOTHES.**

### SECTION 10. STABILITY AND REACTIVITY

#### Stability:

Product is stable.

#### Conditions to avoid:

Avoid all sources of heat and ignition.

#### Substances to avoid:

None known.

#### Decomposition products:

Hazardous polymerization will not occur. May form oxides of carbon in a fire.

### SECTION 11. DISPOSAL INFORMATION

In compliance with local, state and federal regulations. The product should not be allowed to enter sewers or water streams.

### SECTION 12. TOXICOLOGICAL INFORMATION

	2-Butanone	Unit
<b>Acute toxicity:</b>		
<b>LD50 : Acute/oral/rat:</b>	3,400	mg/kg
<b>LD50 : Acute/dermal/rabbit:</b>	13,000	mg/kg

### SECTION 13. TRANSPORT INFORMATION

Transport in accordance with ADR for road, RID for rail, IMDG for sea, ICAO/IATA for air.

#### ROAD TRANSPORT ADR/RID

ADR/RID class:	3
Warning label:	3
Warning no.:	33
Packing group:	II
UN Number:	1263
Classification code:	F 1
Proper shipping name:	Paint UN 1263; dye accessories
Maximum weight:	333 liters

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Page 4 of 4

### SEA TRANSPORT IMDG

IMDG 3.2  
UN Number: 1263  
MFAG: 310/313  
Label: 3  
Packing group: II  
EmS No.: F-E, S-E  
Marine pollutant: No  
Proper shipping name Paint UN 1263; dye accessories

### AIR TRANSPORT ICAO/IATA

ICAO/IATA class: 3  
UN/ID Number: 1263  
Label: 3  
Packing group: II  
Proper shipping name Paint UN 1263; dye accessories  
Packing regulations air liner: 305/ Y 305  
Max. net/box: 305/ 5 liters Y305/1 liter  
Packing regulations freight plane: 307  
Max. net/box: 60 liters

### SECTION 14. REGULATORY INFORMATION

**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND/OR OF 40 CFR 372.**

2-Butanone

78-93-3

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