

# PANNIER CORPORATION

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## Material Safety Data Sheet

Revision date: November 17, 2009

Revision 1

REA-JET Viskoflex VMC 090

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**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:** Viskoflex VMC 090

**PRODUCT NUMBER:** IJ056-9011-00

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

### SECTION 2. INGREDIENTS

COMPONENTS	CAS Number	Content %
2-Butanone	78-93-3	95-99

### 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 perceptible trouble.  
Can cause depression of the central nervous system.

### SECTION 4. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	liquid	
<b>Color:</b>	light blue	
<b>Odor:</b>	characteristic	
<b>Boiling point:</b>	79°C - 110°C	
<b>Melting point:</b>	n.a.	
<b>Flash point:</b>	-4°C	
<b>Autoignition point:</b>	505°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>	101 mbar/ 20°C	Literature value for 2-Butanone
<b>Vapor density:</b>	> 1 (air=1)	
<b>pH value:</b>	5-7	
<b>Density:</b>	0.804 - .806 g/ml	
<b>Bulk density:</b>	Not applicable due to physical condition	
<b>Viscosity:</b>	.5-1 mm <sup>2</sup> /s	
<b>Solubility in water:</b>	Miscible by part, approx. 250 g/liter	
<b>Solvent content:</b>	> 95%	

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**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 vapors of the solvents contained in the mixture are heavier than air and collect on the ground. The product is highly flammable. Contact with the air may lead to explosive mixtures. The product is by part miscible in water.

**Extinguishing media:**

Alcohol resistant foam, carbon dioxide, dry powder, water fog and water spray.

Do not use: Water jet

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

A fire can generate the following gases: carbon oxide, nitrogen oxide and other by part irritating combustion vapors.

**SECTION 7. ACCIDENTAL RELEASE MEASURES**

Avoid sources of ignition. Do not smoke. Do not breath in vapors/aerosol. Avoid contact with eyes and skin. Wear appropriate protective gloves (latex, vinyl, nitril are only resistant to a limited extent. Butyl rubber is resistant.) Wear safety glasses/goggles. In no exhauster available, wear breathing filter (Class A brown).

**Environmental protection:**

Prevent vapors from developing by covering with damp cloth. Do not allow to enter sewers, basement or ground water. In case of emergency, stem by using appropriate measures. Keep away from sources of ignition. Do not smoke.

**After spillage/leakage:**

Absorb spills with non-combustible, liquid-binding material (such as sand, silica gel, multi-purpose binding agent, Oil-Dry®). Clean with water. Dispose of product and of all cloth and cleaning agents contaminated by the product in accordance with applicable regulations.

**Further information:**

Product is highly flammable and miscible with water.

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## SECTION 8. HANDLING AND STORAGE

### Handling:

Take usual precautionary measures when handling chemicals. Wear appropriate gloves and eye protection. Open and handle container with care. Air thoroughly and if necessary care for exhauster or breathing filter. Do not smoke, eat or drink. Take measures against static discharges. Preventive skin protection is recommended. Wash hands with copious amounts of water at end of work.

### Storage:

Store product in a cool, approved area and keep it in its original container, tightly closed. Air thoroughly. Keep away from sources of ignition and from fire-activating materials. Protect against strong heating and sunshine. Recommended storage temperature: +15°C - 25°C

## SECTION 9. PERSONAL PROTECTION

### Exposure Limits:

Chemical Name	CAS No.	Long term (8 hrs)		Short term (10 min)	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
2-Butanone	78-93-3	200	600	300	899

### 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.

### Protective clothing:

Wear long-sleeved, antistatic, hardly inflammable working clothes.

### 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:

Strong heat (>45°C) and/or sunshine

### Substances to avoid:

Strong acids and bases, oxidizing and reducing substances

### Hazardous reactions:

With acids, alkaline solutions, oxidizing and reducing substances

### Hazardous decomposition:

Carbon oxide, nitrogen oxide

## SECTION 11. DISPOSAL INFORMATION

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

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**SECTION 12. TOXICOLOGICAL INFORMATION**

	2-Butanone	Unit
<b>Acute toxicity:</b>		
<b>LD50</b> : Acute/oral/rat:	2,737-3,300	mg/kg
<b>LD50</b> :	3,000-6,480	mg/kg
Acute/dermal/rabbit:		
<b>LD50</b> : Inhalation/rat:	10,000	mg/Litre/4h

Related or prolonged contact with the skin may cause skin eruptions and dermatitis. Degreasing effect. Critical amounts can be taken up due to absorption through the skin. Inhalation causes headache, daze, drowsiness and perceptive trouble. Eye contact can cause strong irritation and edema of the cornea. Can cause liver, kidney and central nervous system injuries. If breached in when swallowed or vomited out, may cause sever lung damage.

**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

**SEA TRANSPORT IMDG**

IMDG	3.2
UN Number:	1263
MFAG:	310/313
Label:	3
Packing group:	II
EmS No.:	F-E, <u>S-E</u>
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

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**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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