

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** PREPIE Skin Barrier Wipe  
**Use/Size** Wound Cleaner  
**Product Numbers** 6560  
**Manufacturer/Supplier** Tyco Healthcare/ Kendall  
**Address** 15 Hampshire Street  
 Mansfield, MA 02048  
**Phone Number** (508) 261-8000 (Monday – Friday 8:00 am to 5:00 pm)  
**Chemtrec Number** (800) 424-9300  
**Revision Date:** January 30, 2004  
**MSDS Date:** September 14, 1999

*This MSDS has been compiled in accordance with - EC Directive 91/155/EC - OSHA's Hazcom Standard (29 CFR 1910.1200)*

## 2. COMPOSITION/INFORMATION ON THE COMPONENTS

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Isopropyl alcohol	67-63-0 200-746-9	> 85.00%	R11, R36, R67	F, Xi
Dimethyl Phthalate	131-11-3 205-011-6	< 3.00%	R-None	R-None
Acrylic Polymer	Trade Secret	> 10.00%	R-None	R-None

## 3. HAZARD IDENTIFICATION

**EU Main Hazards**

Highly flammable.  
 Irritating to eyes.  
 Vapors may cause drowsiness and dizziness

**Routes of Entry**

Absorption - Eye contact - Ingestion - Inhalation - Skin contact

**Carcinogenic Status**

Not considered carcinogenic by NTP, IARC, and OSHA.

**Target Organs**

- Central Nervous System - Skin - Eye - Liver – Respiratory System

**Health Effects - Eyes**

Liquid, mist or vapor will cause conjunctival irritation and possibly corneal damage.

**Health Effects - Skin**

Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis. Liquid may be absorbed through the skin but not in toxicologically significant amounts, unless the area of contact is large and exposure prolonged.

**Health Effects - Ingestion**

Swallowing may have the following effects:

- irritation of mouth, throat and digestive tract - central nervous system depression

A large dose may have the following effects:

- dizziness - drowsiness - headache - mental confusion - nerve damage leading to numbness and muscle weakness - fall of blood pressure - liver damage - lung damage

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### 3. HAZARD IDENTIFICATION

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**Health Effects - Inhalation**

Exposure to vapor may have the following effects:

- irritation of nose, throat and respiratory tract - central nervous system depression

Exposure to vapor at high concentrations may have the following effects:

- dizziness - drowsiness - headache - mental confusion - lung damage - fall of blood pressure - liver damage - nerve damage leading to numbness and muscle weakness

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### 4. FIRST AID MEASURES

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**Eyes**

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

**Skin**

Immediately flood the skin with large quantities of water, preferably under a shower. Remove contaminated clothing and continue washing. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or redness persists.

**Ingestion**

Do not induce vomiting. Have victim drink 1-3 glasses of water to dilute stomach contents. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

**Inhalation**

Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

**Advice to Physicians**

Monitor for systemic secondary effects on liver and kidney; support and treat.

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### 5. FIRE FIGHTING MEASURES

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**Extinguishing Media**

Use foam, dry chemical or carbon dioxide. Be aware of the possibility of re-ignition. Keep containers and surroundings cool with water spray.

**Unusual Fire and Explosion Hazards**

Vapors can travel a considerable distance to a source of ignition and flashback. Flashback can occur if air temperature exceeds flash point. Be aware of possibility of re-ignition.

**Protective Equipment for Fire-Fighting**

Wear full protective clothing and self-contained breathing apparatus.

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### 6. ACCIDENTAL RELEASE MEASURES

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Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Wear appropriate protective clothing. Eliminate all sources of ignition. Vapors can accumulate in low areas. Consider need for evacuation. Prevent the material from entering drains or watercourses. Notify authorities if spill has entered watercourse or sewer or has contaminated soil or vegetation.

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## 7. HANDLING AND STORAGE

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Use in well ventilated area. Use local exhaust ventilation. Avoid inhaling vapor. Avoid contact with eyes, skin and clothing. Keep container tightly closed when not in use. Store away from sources of heat or ignition. Storage area should be: - cool - dry - well ventilated - away from incompatible materials

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Occupational Exposure Standards

Exposure limits are listed below, if they exist.

#### Isopropyl alcohol

UK EH40: OES 400ppm (980mg/m<sup>3</sup>) 8h TWA.

UK EH40: OES 500ppm (1225mg/m<sup>3</sup>) 15min TWA.

ACGIH: TLV 200ppm (980mg/m<sup>3</sup>) 8h TWA.

ACGIH: STEL 400ppm (1225mg/m<sup>3</sup>) 15min TWA.

OSHA: PEL 400ppm (980mg/m<sup>3</sup>) 8h TWA.

Can be absorbed through skin.

#### Dimethyl Phthalate

ACGIH: TLV 5mg/m<sup>3</sup> 8h TWA.

OSHA: PEL 5mg/m<sup>3</sup> 8h TWA.

UK EH40: OES 5mg/m<sup>3</sup> 8h TWA.

UK EH40: OES 10mg/m<sup>3</sup> 15min TWA.

#### Acrylic Polymer

None assigned.

### Engineering Control Measures

Good general room ventilation is expected to be adequate to control airborne levels.

### Respiratory Protection

Respiratory protection if there is a risk of exposure to high vapor concentrations. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

### Hand Protection

Chemical resistant gloves

For isopropyl alcohol, gloves made of polyvinyl alcohol do not provide adequate protection.

### Eye Protection

Chemical goggles or safety glasses with side shields

### Body Protection

If there is danger of splashing, wear: - overall or apron

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Physical State</b>	Non-woven cloth saturated with liquid
<b>Color</b>	Clear
<b>Odor</b>	Alcoholic
<b>pH</b>	No data.
<b>Specific Gravity</b>	0.79 @ 68 F
<b>Boiling Range/Point (°C/F)</b>	80 / 176

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Melting Point (°C/F)</b>	No data.
<b>Flash Point (PMCC) (°C/F)</b>	12 / 54
<b>Vapor Pressure</b>	No data.
<b>Density</b>	No data.
<b>Solubility in Water</b>	Insoluble
<b>Vapor Density (Air = 1)</b>	2.1
<b>Viscosity (cSt)</b>	No data.

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## 10. STABILITY AND REACTIVITY

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### **Stability**

Stable under normal conditions.

### **Conditions to Avoid**

- Heat - High temperatures - Static discharge - Exposure to direct sunlight - Mechanical shock

### **Materials to Avoid**

- Strong oxidizing agents - Acids - Halogens - Aluminum - Acid anhydrides - Isopropyl alcohol may attack some forms of plastic, rubber and coatings

### **Hazardous Polymerization**

Will not occur.

### **Hazardous Decomposition Products**

- oxides of carbon

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## 11. TOXICOLOGICAL INFORMATION

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### **Acute Toxicity**

Low order of acute toxicity predicted. Material may be harmful by skin absorption.

Isopropyl Alcohol: Dermal LD50 (rabbit) 12800mg/kg. Inhalation LCLO (rat) 1600ppm 4h

### **Chronic Toxicity/Carcinogenicity**

This product is not expected to cause long term adverse health effects.

(Isopropyl Alcohol) IARC assessment: this product is not classifiable as to its carcinogenicity to humans (Group 3). Chronic/Subchronic studies resulted in adverse effects to: - liver - spleen - biochemical effects - brain tissue degeneration - changes in reflex behavior - sensory nerve damage

### **Genotoxicity**

This product is not expected to cause any mutagenic effects.

### **Reproductive/Developmental Toxicity**

This product is not expected to cause reproductive or developmental health effects.

(Isopropyl Alcohol) Experimental studies in animals have provided some evidence of embryo/fetotoxicity and birth defects only at doses producing marked maternal toxicity.

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## 12. ECOLOGICAL INFORMATION

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### **Mobility**

(Isopropyl Alcohol)

If released to soil, isopropyl alcohol is expected to have very high mobility.

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**12. ECOLOGICAL INFORMATION**

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**Persistence/Degradability**

(Isopropyl Alcohol)

Isopropyl alcohol is readily degraded in aerobic aqueous systems.

**Bio-accumulation**

(Isopropyl Alcohol)

An estimated BCF of 3 suggests the potential for bioconcentration in aquatic organisms is low.

**Ecotoxicity**

(Isopropyl Alcohol)

Tests on the following species gave a 96h LC50 of 1150mg/litre: - brown shrimp

Tests on the following species gave a 96h LC50 of 6.12-9.64mg/litre: - fathead minnows

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**13. DISPOSAL**

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Dispose of in accordance with all applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near to the container. Do not incinerate closed containers. Empty containers may contain hazardous residues. Dispose of containers with care.

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**14. TRANSPORT INFORMATION**

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<b>DOT CFR 172.101 Data</b>	Not Regulated per 49 CFR 173.4 Small Quantity Exemption
<b>UN Proper Shipping Name</b>	None
<b>UN Class</b>	None
<b>UN Number</b>	None
<b>UN Packaging Group</b>	None
<b>Classification for AIR Transportation (IATA)</b>	Consult current IATA Regulations prior to shipping by air.

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**15. REGULATORY INFORMATION**

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**EU Label Information**

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments.

**EU Hazard Symbol and Indication of Danger**

F - Highly flammable

Xi - Irritant

**R phrases**

R11 - Highly flammable.

R36 - Irritating to eyes.

R67 - Vapours may cause drowsiness and dizziness.

**S phrases**

S2 - Keep out of reach of children.

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## 15. REGULATORY INFORMATION

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S7 - Keep container tightly closed.

S16 - Keep away from sources of ignition - No smoking.

S24/25 - Avoid contact with skin and eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### **US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS**

#### **TSCA Listing**

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory.

#### **EINECS Listing**

All ingredients in this product are listed on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.

#### **DSL (Canadian) Listing**

All ingredients in this product are listed on the Domestic Substance List (DSL).

#### **MA Right To Know Law**

All components have been checked for inclusion on the Massachusetts Substance List (MSL). Those components present at or above the de minimus concentration include: - Isopropyl Alcohol

#### **PA Right To Know Law**

This product contains the following chemicals found on the Pennsylvania Hazardous Substance List:  
- Isopropyl Alcohol

#### **NJ Right To Know Law**

This product contains the following chemicals found on the NJ Right To Know Hazardous Substance List:  
- Isopropyl Alcohol

#### **California Proposition 65**

This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

#### **SARA Title III Sect. 302 (EHS)**

This product does not contain any chemicals subject to SARA Title III Section 302.

#### **SARA Title III Sect. 304**

- Dimethyl phthalate (131-11-3) RQ 5000#

#### **SARA Title III Sect. 311/312 Categorization**

Immediate (Acute) Health Hazard

Delayed (Chronic) Health Hazard

Flammable

#### **SARA Title III Sect. 313**

This product contains a chemical which is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: - Dimethyl Phthalate (131-11-3)

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## 16. OTHER INFORMATION

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#### **NFPA Ratings**

NFPA Code for Flammability - 3

NFPA Code for Health - 1

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - None

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## 16. OTHER INFORMATION

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### HMIS Ratings

HMIS Code for Flammability - 3

HMIS Code for Health - 1

HMIS Code for Reactivity - 0

HMIS Code for Personal Protection - See Section 8

### Abbreviations

N/A: Denotes no applicable information found or available

CAS#: Chemical Abstracts Service Number

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

EU: European Union

R: Risk

S: Safety

**Prepared By:** EnviroNet LLC.

The information and recommendations presented in this MSDS are based on sources believed to be accurate; therefore, The Kendall Company assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the information for their particular purposes.

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