

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** PolySpec TITE M50 Primer - Resin/Side A  
**Version #** 1.0  
**Revision date** 29-Oct-2009  
**Company information** PolySpec  
 6614 Gant Road  
 Houston, TX 77066 US  
**Emergency** Chemtrec (800) 424-9300  
 International (703) 527-3887

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	CAS #	Percent
Methyl N-Amyl Ketone	110-43-0	< 8
N-Butyl Alcohol	71-36-3	< 8
Talc	14807-96-6	< 7
Bisphenol-A-(Epichlorohydrin) polymer	25068-38-6	< 30
Crystalline Silica	14808-60-7	< 0.5
Non-hazardous and other components below reportable levels		> 40

## 3. HAZARDS IDENTIFICATION

**Emergency overview** Highly flammable. May cause sensitization by skin contact. Irritating to skin. Harmful in contact with eyes.

Danger of serious damage to health by prolonged exposure. May cause cancer. May cause breathing disorders and lung damage. May be ignited by heat, sparks or flames.  
 Flammable/Combustible Material. Will be easily ignited by heat, spark or flames. May cause brain and central nervous system damage.

### Potential short term health effects

**Eyes** Contact may irritate or burn eyes. Eye contact may result in corneal injury.  
**Skin** Components of the product may be absorbed into the body through the skin. Irritating to skin. May cause sensitization by skin contact.  
**Inhalation** May cause breathing disorders and lung damage.  
**Ingestion** Do not ingest.  
**Target organs** Central nervous system. Eyes. Respiratory system. Skin.  
**Main symptoms** Chronic exposure to neurotoxins damages the brain and the central nervous system.

## 4. FIRST AID MEASURES

### First aid

**Eye contact** Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention immediately. Get medical attention if irritation develops or persists.

**Skin contact** Remove and isolate contaminated clothing and shoes. Immediately flush skin with running water for at least 20 minutes. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash off immediately with plenty of water. If skin irritation persists, call a physician.

**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention immediately. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, give oxygen. Get medical attention, if needed.

**Ingestion** Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not induce vomiting without medical advice. If material is ingested, immediately contact a physician or poison control center. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Drink plenty of water.

**Notes to physician**

Symptoms may be delayed.

**General advice**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Keep victim warm. In case of shortness of breath, give oxygen. Keep victim under observation. Take off contaminated clothing and shoes immediately.

## 5. FIRE FIGHTING MEASURES

**Unusual fire & explosion hazards**

Runoff to sewer may cause fire or explosion hazard. Containers may explode when heated. Vapor or gas may spread to distant ignition sources and flash back.

**Hazardous combustion products**

Fire may produce irritating, corrosive and/or toxic gases.

**Suitable extinguishing media**

Small Fires: Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Large Fires: Water spray, fog or regular foam.

**Fire fighting equipment/instructions**

Move containers from fire area if you can do it without risk. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in flame. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. In the event of fire, wear self contained breathing apparatus.

**Flash point**

117 °F (47.2 °C) Pensky-Martens Closed Cup

## 6. ACCIDENTAL RELEASE MEASURES

**Evacuation procedures**

Keep unnecessary personnel away. Ventilate closed spaces before entering. Stay upwind. Keep out of low areas.

**Containment procedures**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas. Dike the spilled material, where this is possible.

**Personal precautions**

Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

**Methods for cleaning up**

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Dike far ahead of liquid spill for later disposal. Never return spills in original containers for re-use.

## 7. HANDLING AND STORAGE

**Handling**

Do not handle or store near an open flame, heat or other sources of ignition. Do not breathe gas/fumes/vapor/spray. All equipment used when handling the product must be grounded. Wear personal protective equipment. Avoid contact with eyes. Do not get this material in contact with skin or eyes. Surfaces may become slippery after spillage.

**Storage**

Keep in a cool, well-ventilated place. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. The pressure in sealed containers can increase under the influence of heat. Keep away from heat and sources of ignition. Keep container tightly closed. Keep out of the reach of children. Do not freeze.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

#### ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Crystalline Silica	14808-60-7	0.05 Mg/m <sup>3</sup> TWA (respirable fraction)
Methyl N-Amyl Ketone	110-43-0	50 Ppm TWA
N-Butyl Alcohol	71-36-3	20 Ppm TWA
Talc	14807-96-6	2 Mg/m <sup>3</sup> TWA (respirable fraction, particulate matter containing no asbestos and < 1% crystalline silica)

#### ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Crystalline Silica	14808-60-7	silicosis; lung function; lung fibrosis; cancer
Methyl N-Amyl Ketone	110-43-0	irritation
N-Butyl Alcohol	71-36-3	irritation
Talc	14807-96-6	lung

#### OSHA - Final PELs - Time Weighted Averages (TWAs)

Methyl N-Amyl Ketone	110-43-0	100 Ppm TWA; 465 mg/m <sup>3</sup> TWA
N-Butyl Alcohol	71-36-3	100 Ppm TWA; 300 mg/m <sup>3</sup> TWA

### Personal protective equipment

<b>Respiratory protection</b>	A NIOSH- approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.
<b>Hand protection</b>	Protective gloves.
<b>Eye protection</b>	Wear chemical goggles. Wear face-shield and protective suit for abnormal processing problems.
<b>Skin and body protection</b>	Wear suitable protective clothing. Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.
<b>General</b>	Structural firefighters protective clothing will only provide limited protection. Avoid contact with the skin and the eyes.

**Engineering measures to reduce exposure** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

**Hygiene measures** When using do not smoke. Handle in accordance with good industrial hygiene and safety practice. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice for diagnostics. Avoid contact with the skin and the eyes.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Density</b>	11.7509 lb/gal
<b>Form</b>	Liquid.
<b>Specific gravity</b>	1.41

## 10. CHEMICAL STABILITY & REACTIVITY INFORMATION

<b>Stability</b>	Risk of ignition.
<b>Conditions to avoid</b>	High temperatures. Direct sources of heat.
<b>Hazardous polymerization</b>	Will not occur.
<b>Incompatibility</b>	Strong acids. Strong oxidizing agents.

## 11. TOXICOLOGICAL INFORMATION

**Local effects** Risk of serious damage to eyes. Components of the product may be absorbed into the body through the skin. Irritating to skin. May cause sensitization by skin contact.

### Component analysis - LD50

#### NIOSH - Selected LD50s and LC50s

Bisphenol-A-(Epichlorohydrin) polymer	25068-38-6	Oral LD50 Rat: 11400 mg/kg; Oral LD50 Mouse: 15600 mg/kg
Methyl N-Amyl Ketone	110-43-0	Oral LD50 Rat: 1670 mg/kg; Oral LD50 Mouse: 730 mg/kg; Dermal LD50 Rabbit: 12600 µL/kg
N-Butyl Alcohol	71-36-3	Inhalation LC50 Rat: 8000 ppm/4H; Oral LD50 Rat: 790 mg/kg; Oral LD50 Mouse: 2680 mg/kg; Dermal LD50 Rabbit: 3400 mg/kg

**Sensitization** May cause sensitization by skin contact.

<b>Carcinogenicity</b>	Cancer hazard.	
<b>ACGIH - Threshold Limits Values - Carcinogens</b>		
Crystalline Silica	14808-60-7	A2 - Suspected Human Carcinogen
Talc	14807-96-6	A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers); A1 - Confirmed Human Carcinogen (containing asbestos fibers)
<b>NTP (National Toxicology Program) - Report on Carcinogens - Known Carcinogens</b>		
Crystalline Silica	14808-60-7	Known Carcinogen
<b>Chronic toxicity</b>	Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury.	
<b>Further information</b>	Symptoms may be delayed.	
<b>Routes of exposure</b>	Skin contact.	

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Components of this product have been identified as having potential environmental concerns.

### Environmental effects

#### Ecotoxicity - Freshwater Fish Species Data

Methyl N-Amyl Ketone	110-43-0	96 Hr LC50 fathead minnow: 131.0 mg/L (flow-through)
N-Butyl Alcohol	71-36-3	96 Hr LC50 fathead minnow (33 days old):1510 mg/L (Static)

#### Ecotoxicity - Microtox Data

N-Butyl Alcohol	71-36-3	5 Min EC50 Photobacterium phosphoreum: 2056 mg/L; 30 min EC50 Photobacterium phosphoreum: 2186 mg/L
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## 13. DISPOSAL CONSIDERATIONS

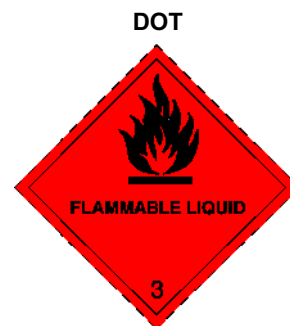
**Waste codes** D001: Waste Flammable material with a flash point <140 F

**Disposal instructions** This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations. If discarded, this product is considered a RCRA ignitable waste, D001. Incinerate the material under controlled conditions in an approved incinerator. Dispose of this material and its container at hazardous or special waste collection point.

## 14. TRANSPORTATION INFORMATION

### Department of Transportation (DOT) Requirements

<b>Proper shipping name</b>	PAINT RELATED MATERIAL
<b>Hazard class</b>	3
<b>Special provisions</b>	B1, B52, IB3, T2, TP1
<b>Packaging exceptions</b>	150
<b>Packaging non bulk</b>	173
<b>Packaging bulk</b>	242
<b>Quantity limits passenger</b>	60 L
<b>Quantity limits cargo</b>	220 L
<b>Vessel stowage location</b>	A
<b>UN number</b>	UN1263
<b>Packaging group</b>	III
<b>Labels required</b>	3
<b>ERG number</b>	127



### International Air Transport Association (IATA) Requirements

Proper shipping name	PAINT RELATED MATERIAL
Hazard class	3
Special provisions	B1, B52, IB3, T2, TP1
Packaging exceptions	150
Packaging non bulk	173
Packaging bulk	242
Quantity limits passenger	60 L
Quantity limits cargo	220 L
Vessel stowage location	A
UN number	UN1263
Packaging group	III
Labels required	3
Passenger Cargo Pkg Inst LQ	Y309 309
Packaging Instructions	310
Pkg Inst Cargo Only	

IATA



### International Maritime Dangerous Goods (IMDG) Code Requirements

Proper shipping name	PAINT
Hazard class	3
Special provisions	163, 640E
Packaging exceptions	150
Packaging non bulk	173
Packaging bulk	242
Quantity limits passenger	60 L
Quantity limits cargo	220 L
Vessel stowage location	A
Item	F1
UN number	UN1263
Packaging group	III
Labels required	3
Hazard ID	30
Transport Category	3

IMDG



## 15. REGULATORY INFORMATION

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### CERCLA/SARA - Section 313 - Emission Reporting

N-Butyl Alcohol 71-36-3 1.0 % de minimis concentration

#### Inventory - European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

Crystalline Silica	14808-60-7	238-878-4
Methyl N-Amyl Ketone	110-43-0	203-767-1
N-Butyl Alcohol	71-36-3	200-751-6
Talc	14807-96-6	238-877-9

#### Inventory - United States - Section 8(b) Inventory (TSCA)

Bisphenol-A-(Epichlorohydrin) polymer	25068-38-6	XU
Crystalline Silica	14808-60-7	Present
Methyl N-Amyl Ketone	110-43-0	Present
N-Butyl Alcohol	71-36-3	Present
Talc	14807-96-6	Present

#### Occupational safety and health administration (OSHA)

**29 CFR 1910.1200** Yes  
**hazardous chemical**

#### CERCLA (superfund) reportable quantity

N-Butyl Alcohol: 5000.0000

**Superfund amendments and reauthorization act of 1986 (SARA)**

<b>Section 302 extremely hazardous substance</b>	No
<b>Section 311 hazardous chemical</b>	Yes
<b>Hazard categories</b>	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

**NFPA ratings**  
Health: 2  
Flammability: 2  
Instability: 0

**International regulations****Canada - 2004 NPRI (National Pollutant Release Inventory)**

N-Butyl Alcohol	71-36-3	Part 1, Group 1 Substance
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**Canada - WHMIS - Ingredient Disclosure List**

Crystalline Silica	14808-60-7	1 % (English Item 1406, French Item 1491)
Methyl N-Amyl Ketone	110-43-0	1 % (English Item 1015, French Item 1114); 1 % (English Item 1016, French Item 1115)
N-Butyl Alcohol	71-36-3	1 % (English Item 234, French Item 354)

**State regulations****California - Proposition 65 - Carcinogens List**

Crystalline Silica	14808-60-7	carcinogen, initial date 10/1/88 (airborne particles of respirable size)
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**Massachusetts - Right To Know List**

Crystalline Silica	14808-60-7	Carcinogen; Extraordinarily hazardous
Methyl N-Amyl Ketone	110-43-0	Present
N-Butyl Alcohol	71-36-3	Present
Talc	14807-96-6	Present; Exempt when encapsulated or if particulates are not present and cannot be substantially generated through use of the product.

**New Jersey - Right to Know Hazardous Substance List**

Crystalline Silica	14808-60-7	sn 1660
Methyl N-Amyl Ketone	110-43-0	sn 1279
N-Butyl Alcohol	71-36-3	sn 1330
Talc	14807-96-6	sn 1773

**Pennsylvania - RTK (Right to Know) List**

Crystalline Silica	14808-60-7	Present as well as its dust
Methyl N-Amyl Ketone	110-43-0	Present
N-Butyl Alcohol	71-36-3	Environmental hazard
Talc	14807-96-6	Present

**16. OTHER INFORMATION****Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The 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, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

**Issue date**

29-Oct-2009