

1. PRODUCT AND COMPANY IDENTIFICATION

Product name PolySpec Urethane ColorPack
Version # 1.0
Revision date 24-Sep-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
Titanium dioxide	13463-67-7	< 60
P-Chloro-a,a,a-trifluorotoluene	98-56-6	< 20
N-Butyl acetate	123-86-4	< 2.5
Propylene glycol monomethyl ether acetate	108-65-6	< 10
Silica, amorphous	7631-86-9	< 10
Non-hazardous and other components below reportable levels		> 10

3. HAZARDS IDENTIFICATION

Emergency overview 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 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.
Inhalation May cause breathing disorders and lung damage.
Ingestion Do not ingest.
Target organs Central nervous system. Eyes. Lungs. 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 Get medical attention immediately. Remove and isolate contaminated clothing and shoes. Immediately flush skin with running water for at least 20 minutes. 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 Get medical attention immediately. Move to fresh air. Oxygen or artificial respiration if needed. 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 If material is ingested, immediately contact a physician or poison control center. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not use mouth-to-mouth method if victim ingested the substance.

Notes to physician Symptoms may be delayed.

General advice Keep victim warm. Keep victim under observation. In case of shortness of breath, give oxygen. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Small Fires: Dry chemical, CO ₂ , 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. Do not scatter spilled material with high pressure water streams. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. ALWAYS stay away from tanks engulfed in flame. 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.
Flash point	250 °F (121.1 °C) Pensky-Martens Closed Cup

6. ACCIDENTAL RELEASE MEASURES

Evacuation procedures	Stay upwind. Keep out of low areas. Keep unnecessary personnel away.
Containment procedures	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.
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.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
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. Should not be released into the environment.

7. HANDLING AND STORAGE

Handling	Do not breathe gas/fumes/vapor/spray. Wear personal protective equipment. Do not handle or store near an open flame, heat or other sources of ignition. Surfaces may become slippery after spillage.
Storage	Keep container tightly closed. Keep out of the reach of children. 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. Do not freeze.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

ACGIH - Threshold Limits Values - Short Term Exposure Limits (TLV-STEL)

N-Butyl acetate	123-86-4	200 Ppm STEL
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ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

N-Butyl acetate	123-86-4	150 Ppm TWA
Titanium dioxide	13463-67-7	10 Mg/m ³ TWA

ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

N-Butyl acetate	123-86-4	irritation
Titanium dioxide	13463-67-7	lung

OSHA - Final PELs - Time Weighted Averages (TWAs)

N-Butyl acetate	123-86-4	150 Ppm TWA; 710 mg/m ³ TWA
Titanium dioxide	13463-67-7	15 Mg/m ³ TWA (total dust)

Personal protective equipment

Respiratory protection 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. In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Protective gloves.

Eye protection Wear chemical goggles.

Skin and body protection Wear suitable protective clothing.

General 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 Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice for diagnostics. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL & CHEMICAL PROPERTIES

Density	17.5316 lb/gal
Form	Liquid.
Specific gravity	2.1

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability	Stable at normal conditions.
Conditions to avoid	Direct sources of heat.
Hazardous polymerization	Will not occur.
Incompatibility	Strong acids. Will form explosive mixtures in air. This product is incompatible with nitrates.

11. TOXICOLOGICAL INFORMATION

Local effects Risk of serious damage to eyes. Components of the product may be absorbed into the body through the skin.

Component analysis - LD50

NIOSH - Selected LD50s and LC50s

N-Butyl acetate	123-86-4	Inhalation LC50 Rat: 390 ppm/4H; Inhalation LC50 Mouse: 6 g/m ³ /2H; Oral LD50 Rat: 10768 mg/kg; Oral LD50 Mouse: 6 g/kg; Dermal LD50 Rabbit: >17600 mg/kg
P-Chloro-a,a,a-trifluorotoluene	98-56-6	Oral LD50 Rat: 13 g/kg; Oral LD50 Mouse: 11500 mg/kg
Propylene glycol monomethyl ether acetate	108-65-6	Oral LD50 Rat: 8532 mg/kg; Dermal LD50 Rabbit: >5 g/kg

Carcinogenicity Cancer hazard.

ACGIH - Threshold Limits Values - Carcinogens

Titanium dioxide 13463-67-7 A4 - Not Classifiable as a Human Carcinogen

Chronic toxicity Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury.

Further information Symptoms may be delayed.

12. ECOLOGICAL INFORMATION

Ecotoxicity Components of this product are hazardous to aquatic life.

Environmental effects Harmful to aquatic life.

Ecotoxicity - Freshwater Algae Data

N-Butyl acetate 123-86-4 96 Hr EC50 freshwater algae (*Scenedesmus subspicatus*): 320 mg/L

Ecotoxicity - Freshwater Fish Species Data

N-Butyl acetate 123-86-4 96 Hr LC50 fathead minnow: 18 mg/L (flow-through); 96 Hr LC50 bluegill: 100 mg/L (Static)

Ecotoxicity - Microtox Data

N-Butyl acetate 123-86-4 5 Min EC50 Photobacterium phosphoreum: 70.0 mg/L; 15 min EC50 Photobacterium phosphoreum: 82.2 mg/L; 30 min EC50 Photobacterium phosphoreum: 98.9 mg/L
P-Chloro-a,a,a-trifluorotoluene 98-56-6 5 Min EC50 Photobacterium phosphoreum: 11.1 mg/L; 15 min EC50 Photobacterium phosphoreum: 13.4 mg/L; 30 min EC50 Photobacterium phosphoreum: 14.3 mg/L

Ecotoxicity - Water Flea Data

N-Butyl acetate 123-86-4 48 Hr EC50 water flea: 44 mg/L

13. DISPOSAL CONSIDERATIONS

Disposal instructions Dispose in accordance with all applicable regulations. 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.

14. TRANSPORTATION INFORMATION

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

ERG number 129

International Air Transport Association (IATA) Requirements

Not regulated as dangerous goods.

International Maritime Dangerous Goods (IMDG) Code Requirements

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

US federal regulations

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

N-Butyl acetate	123-86-4	204-658-1
P-Chloro-a,a,a-trifluorotoluene	98-56-6	202-681-1
Propylene glycol monomethyl ether acetate	108-65-6	203-603-9
Silica, amorphous	7631-86-9	231-545-4
Titanium dioxide	13463-67-7	236-675-5

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

N-Butyl acetate	123-86-4	Present
P-Chloro-a,a,a-trifluorotoluene	98-56-6	Present
Propylene glycol monomethyl ether acetate	108-65-6	P
Silica, amorphous	7631-86-9	Present
Titanium dioxide	13463-67-7	Present

Occupational safety and health administration (OSHA)

29 CFR 1910.1200 Yes
hazardous chemical

CERCLA (superfund) reportable quantity

None

Superfund amendments and reauthorization act of 1986 (SARA)

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Hazard categories Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

NFPA ratings

Health: 0
Flammability: 1
Instability: 0

International regulations

Canada - 2004 NPRI (National Pollutant Release Inventory)

N-Butyl acetate 123-86-4 Part 5 Substance

Canada - WHMIS - Ingredient Disclosure List

N-Butyl acetate 123-86-4 1 % (English Item 230, French Item 9)
Silica, amorphous 7631-86-9 1 % (English Item 1403, French Item 1488)

State regulations

Massachusetts - Right To Know List

N-Butyl acetate 123-86-4 Present
Silica, amorphous 7631-86-9 Present; Exempt when encapsulated or if particulates are not present and cannot be substantially generated through use of the product.
Titanium dioxide 13463-67-7 Present

New Jersey - Right to Know Hazardous Substance List

N-Butyl acetate 123-86-4 sn 1329
Silica, amorphous 7631-86-9 sn 1655
Titanium dioxide 13463-67-7 sn 1861

Pennsylvania - RTK (Right to Know) List

N-Butyl acetate 123-86-4 Environmental hazard
P-Chloro-a,a,a-trifluorotoluene 98-56-6 environmental hazard
Silica, amorphous 7631-86-9 Present
Titanium dioxide 13463-67-7 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

24-Sep-2009