



POLYCOLOR SAFETY YELLOW CONSISTS OF BASE AND CURE

Version 2.

Print Date 03/24/2010

REVISION DATE: 03/23/2010

This is a kit that contains the following components:

- POLYCOLOR BASE SAFETY YELLOW
- POLYCOLOR C/A

POLYCOLOR BASE SAFETY YELLOWVersion 2.
REVISION DATE: 03/23/2010

Print Date 03/24/2010

SECTION 1 - PRODUCT IDENTIFICATION / PREPARATION INFORMATION**Product Information**Trade name : POLYCOLOR BASE SAFETY YELLOW
Product code : 102109 800Supplier : Tremco Canada division
220 Wicksteed Avenue
Toronto, ON M4H 1G7Telephone : (416) 421-3300
Emergency Phone: : (613) 996-6666**Preparation Information**Prepared by: : Sewnauth Raghunandan
Date: : 03/23/2010
Telephone : (416) 421-3300**SECTION 2 - HAZARDS IDENTIFICATION****Emergency Overview**

Yellow. Liquid solution. Vapor may irritate respiratory tract. May cause nausea, headaches, and dizziness. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of EntryInhalation : Vapor may irritate respiratory tract. May cause nausea, headaches, and dizziness.
Eyes : Direct contact may cause mild irritation. May cause temporary injury.
Ingestion : May cause gastrointestinal irritation, nausea, and vomiting.
Skin : May cause sensitization resulting in irritation, itching and redness.**Aggravated Medical Conditions**

Pre-existing eye, skin, liver, kidney, and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

Prolonged or repeated exposure to xylene may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, heart muscle sensitization and arrhythmia, hearing loss, and brain, liver, kidney damage. Xylene overexposure may affect fetal development. Overexposure to methyl isobutyl ketone can cause narcosis and can adversely affect the central nervous system and cardiovascular system. Overexposure to 1-methoxy-2-propanol may cause olfactory tumors, general anesthesia, and nausea, and is an experimental teratogen. Many glycol ethers have been shown to have adverse human reproductive effects. Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Prolonged and repeated exposure to excessive airborne concentrations of talc can result in scarring of the lungs (pneumoconiosis) or the covering of the lungs (pleural thickening). Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Skin, Eye, Ingestion, Lung

POLYCOLOR BASE SAFETY YELLOWVersion 2.
REVISION DATE: 03/23/2010

Print Date 03/24/2010

SECTION 3 : HAZARDOUS INGREDIENTS

Chemical Name	CAS-No.	Weight % Range
1-Methoxy-2-Propanol	107-98-2	15.0 - 40.0
Xylene	1330-20-7	7.0 - 13.0
Methyl isobutyl ketone	108-10-1	5.0 - 10.0
Methyl ethyl ketone	78-93-3	5.0 - 10.0
Ethylbenzene	100-41-4	1.0 - 5.0
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - 1.0

The ingredients listed above are hazardous as defined in the controlled products regulation. (CPR).

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation	:	Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.
Eye contact	:	Flush with water for 15 minutes. If irritation persists, get medical attention.
Skin contact	:	Wash area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
Ingestion	:	Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

SECTION 5: FIRE / EXPLOSION HAZARDS

Flash point	:	16 °C, 61 °F
Method	:	Setaflash Closed Cup
Lower explosion limit	:	1.20 %(V) Solvent
Upper explosion limit	:	8 %(V) Solvent
Autoignition temperature	:	Not available.
Extinguishing media	:	If water fog is ineffective, use carbon dioxide, dry chemical or foam.
Hazardous combustion products	:	Smoke, fumes. Carbon monoxide and carbon dioxide can form.
Protective equipment for firefighters	:	Water may be used to cool containers to minimize pressure build-up. Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).
Fire and explosion conditions	:	Closed container, may burst when exposed to extreme heat. Empty containers may contain ignitable vapors. Vapor concentrations in enclosed areas may ignite explosively. Vapors may travel to sources of ignition and flashback.

SECTION 6 - SPILLS / LEAKS / ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Remove sources of ignition immediately.

POLYCOLOR BASE SAFETY YELLOW

Version 2.
REVISION DATE: 03/23/2010

Print Date 03/24/2010

Stop flow of material if safe to do so. Contain spill and keep out of water courses. Ventilate area.

SECTION 7 - HANDLING AND STORAGE

Store under dry warehouse conditions away from heat and all ignition sources. Store in a cool, well ventilated area. Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Do not smoke, weld, generate sparks, or use flame near container. Change soiled work clothes frequently. Clean hands thoroughly after handling.

SECTION 8 - PREVENTIVE MEASURES/EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection equipment

Respiratory protection : Wear appropriate, properly fitted NIOSH/MSHA approved organic vapor or supplied air respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.

Hand protection : Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.

Eye protection : Chemical splash goggles.

Protective measures : Use professional judgment in the selection, care, and use.

Engineering measures : Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use general ventilation and/ or local exhaust to reduce the airborne contaminant concentration below the exposure limit listed in the MSDS

Exposure Limits

Chemical Name	CAS Number	Regulation	Limit	Form
1-Methoxy-2-Propanol	107-98-2	ACGIH TWA:	100 ppm	
		ACGIH STEL:	150 ppm	
		Ontario TWAEV:	365 mg/m3	
		Ontario STEV:	550 mg/m3	
Xylene	1330-20-7	Ontario TWAEV:	435 mg/m3	
		Ontario STEV:	650 mg/m3	
		ACGIH TWA:	100 ppm	
		ACGIH STEL:	150 ppm	
Methyl isobutyl ketone	108-10-1	Ontario TWAEV:	205 mg/m3	
		Ontario STEV:	75 ppm	
		ACGIH TWA:	50 ppm	
		ACGIH STEL:	75 ppm	
Methyl ethyl ketone	78-93-3	Ontario TWAEV:	590 mg/m3	
		Ontario STEV:	885 mg/m3	
		ACGIH TWA:	200 ppm	
		ACGIH STEL:	300 ppm	

POLYCOLOR BASE SAFETY YELLOW

Version 2.

Print Date 03/24/2010

REVISION DATE: 03/23/2010

Chemical Name	CAS Number	Regulation	Limit	Form
Ethylbenzene	100-41-4	Ontario TWAEV: Ontario STEV: ACGIH TWA: ACGIH STEL:	435 mg/m3 540 mg/m3 100 ppm 125 ppm	
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	Ontario TWAEV: ACGIH TWA:	0.10 mg/m3 0.025 mg/m3	Respirable fraction. Respirable fraction.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Form	: Liquid solution
Color	: Yellow
Odor	: Strong Aromatic Ketone
pH	: Not available.
Vapour pressure	: Not available.
Vapor density	: Heavier than air
Melting point/range	: Not available.
Freezing point	: Not available.
Boiling point/range	: Not available.
Water solubility	: Partially soluble
Evaporation Rate:	: Not available.
Specific Gravity	: 1.18
% Volatile Weight	: 39 %

SECTION 10 - REACTIVITY / STABILITY

Substances to avoid	: Epoxy curing agents.Amines and oxidizing agents.
Stability	: Material is stable under normal storage, handling, and use.
Hazardous polymerization	: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

1-Methoxy-2-Propanol, CAS-No.: 107-98-2

Acute oral toxicity (LD-50 oral)	36 g/kg (Rat)
Acute inhalation toxicity (LC-50)	54.6 mg/l for 4 h (Rat)

Xylene, CAS-No.: 1330-20-7

Acute oral toxicity (LD-50 oral)	4,300 mg/kg (Rat) 1,590 mg/kg (Mouse) 6,670 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	3,523 - 8,600 mg/kg (Rat) 5,627 mg/kg (Mouse)
	6,350 mg/l for 4 h (Rat) 3,907 mg/l for 6 h (Mouse) 8,000 mg/l for 4 h (Rat)

POLYCOLOR BASE SAFETY YELLOW

Version 2.
REVISION DATE: 03/23/2010

Print Date 03/24/2010

Methyl isobutyl ketone, CAS-No.: 108-10-1	
Acute oral toxicity (LD-50 oral)	2,080 mg/kg (Rat)
Acute dermal toxicity (LD-50 dermal)	16,000 mg/kg (Rabbit)
Methyl ethyl ketone, CAS-No.: 78-93-3	
Acute oral toxicity (LD-50 oral)	670 mg/kg (Mouse) 2,300 - 3,500 mg/kg (Rat) 4,500 - 6,800 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	11,000 mg/l for 45 min (Mouse) 11,700 mg/l for 4 h (Rat)
Acute dermal toxicity (LD-50 dermal)	8,000 mg/kg (Rabbit)
Ethylbenzene, CAS-No.: 100-41-4	
Acute oral toxicity (LD-50 oral)	5,460 mg/kg (Rat) 3,500 mg/kg (Rat)
Acute dermal toxicity (LD-50 dermal)	17,800 mg/kg (Rabbit)

SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

RCRA Class : D001: Reportable Quantity = 100 lbs. (Characteristic of ignitability)
This classification applies only to the material as it was originally produced.

Disposal Method : Dispose as hazardous waste according to all local, state, federal and provincial regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

TDG / DOT Shipping Description:
PAINT, 3, UN1263, PG II

SECTION 15 - REGULATORY INFORMATION

North American Inventories:
All components are listed or exempt from the TSCA inventory.
This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

Canadian Regulations:
WHMIS Classification : B2, D2A, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Other Regulations:
Regulatory VOC (less water and exempt solvent) : 463 g/l



POLYCOLOR BASE SAFETY YELLOW

Version 2.
REVISION DATE: 03/23/2010

Print Date 03/24/2010

SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	3
Flammability	4
Reactivity	0
PPE	

0 = Minimum
 1 = Slight
 2 = Moderate
 3 = Serious
 4 = Severe

Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

Prepared by: Sewnauth Raghunandan

Legend

- ACGIH - American Conference of Governmental Hygienists
- DOT - Department of Transportation
- DSL - Domestic Substance List
- EPA - Environmental Protection Agency
- HMIS - Hazardous Materials Information System
- IARC - International Agency for Research on Cancer
- MSHA - Mine Safety Health Administration
- NDSL - Non-Domestic Substance List
- NIOSH - National Institute for Occupational Safety and Health
- NTP - National Toxicology Program
- OSHA - Occupational Safety and Health Administration
- PEL - Permissible Exposure Limit
- RCRA - Resource Conservation and Recovery Act
- STEL - Short Term Exposure Limit
- TLV - Threshold Limit Value
- TSCA - Toxic Substances Control Act
- TWA - Time Weighted Average
- V - Volume
- VOC - Volatile Organic Compound
- WHMIS - Workplace Hazardous Materials Information System

POLYCOLOR C/AVersion 2.
REVISION DATE: 03/23/2010

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SECTION 1 - PRODUCT IDENTIFICATION / PREPARATION INFORMATION**Product Information**

Trade name : POLYCOLOR C/A
Product code : 102109 800

Supplier : Tremco Canada division
220 Wicksteed Avenue
Toronto, ON M4H 1G7

Telephone : (416) 421-3300
Emergency Phone: : (613) 996-6666

Product use : Curative

Preparation Information

Prepared by: : Sewnauth Raghunandan
Date: : 03/23/2010
Telephone : (416) 421-3300

SECTION 2 - HAZARDS IDENTIFICATION**Emergency Overview**

Amber. Liquid. May cause slight irritation to the respiratory system. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel.

Acute Potential Health Effects/ Routes of Entry

Inhalation : May cause slight irritation to the respiratory system.
Eyes : Vapors or liquid may cause tearing, blurred vision, severe irritation, and possible chemical burns.
Ingestion : May cause gastrointestinal irritation, nausea, and vomiting. May cause chemical burns to stomach, mouth, nose, and throat.
Skin : May cause itching, reddening, inflammation. May cause severe burns, blistering and skin damage. May cause sensitization resulting in irritation, itching and redness. May cause a rash.

Aggravated Medical Conditions

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

May cause sensitization by contact. Prolonged skin contact may cause irritation, burns or dermatitis. Repeated overexposure to vapors and/or material may injure the liver, kidneys and respiratory system unless suitable engineering controls and/or personal protective equipment are used. May aggravate persons sensitized to amines. Overexposure to 1-methoxy-2-propanol may cause olfactory tumors, general anesthesia, and nausea, and is an experimental teratogen. Many glycol ethers have been shown to have adverse human reproductive effects. Overexposure to n-butyl alcohol caused anemia, liver abnormalities, eye, kidney and lung damage in experimental animals. Can cause eye damage in humans and effect hearing if exposed to vapor concentrations of over 50 ppm. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

POLYCOLOR C/A

Version 2.
REVISION DATE: 03/23/2010

Print Date 03/24/2010

SECTION 3 : HAZARDOUS INGREDIENTS

Chemical Name	CAS-No.	Weight % Range
1-Methoxy-2-Propanol	107-98-2	15.0 - 40.0
n-Butanol	71-36-3	10.0 - 30.0

The ingredients listed above are hazardous as defined in the controlled products regulation. (CPR).

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

- Inhalation : Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel.
- Eye contact : Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.
- Skin contact : Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
- Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

SECTION 5: FIRE / EXPLOSION HAZARDS

- Flash point : 38 °C, 100 °F
- Method : Pensky-Martens Closed Cup
- Lower explosion limit : Not available.
- Upper explosion limit : Not available.
- Autoignition temperature : Not available.
- Extinguishing media : If water fog is ineffective, use carbon dioxide, dry chemical or foam.
- Hazardous combustion products : Carbon monoxide and carbon dioxide can form. Smoke, fumes. Nitrogen oxides can form.
- Protective equipment for firefighters : Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).
- Fire and explosion conditions : Product may ignite if heated in excess of its flash point. Vapors may travel to sources of ignition and flashback. Vapor concentrations in enclosed areas may ignite explosively. Empty containers may contain ignitable vapors.

SECTION 6 - SPILLS / LEAKS / ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Remove sources of ignition immediately. Stop flow of material if safe to do so. Contain spill and keep out of water courses. Ventilate area.

POLYCOLOR C/A

Version 2.
REVISION DATE: 03/23/2010

Print Date 03/24/2010

SECTION 7 - HANDLING AND STORAGE

Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Do not smoke, weld, generate sparks, or use flame near container. Do not use in confined or poorly ventilated areas. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Store under dry warehouse conditions away from heat and all ignition sources.

SECTION 8 - PREVENTIVE MEASURES/EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection equipment

- Respiratory protection : Wear NIOSH/MSHA approved vapor respirator with appropriate cartridge when the vapor concentration is expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.
- Hand protection : Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.
- Eye protection : Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.
- Skin and body protection : Prevent contact with shoes and clothing. Use rubber apron and overshoes.
- Protective measures : Inspect and replace equipment at regular intervals. Use professional judgment in the selection, care, and use.
- Engineering measures : Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use local exhaust when the general ventilation is inadequate.

Exposure Limits

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Regulation</u>	<u>Limit</u>	<u>Form</u>
1-Methoxy-2-Propanol	107-98-2	ACGIH TWA: ACGIH STEL: Ontario TWAEV: Ontario STEV:	100 ppm 150 ppm 365 mg/m3 550 mg/m3	
n-Butanol	71-36-3	ACGIH TWA: Ontario TWAEV:	20 ppm 20 ppm	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- Physical State : Liquid
- Form : Liquid
- Color : Amber
- Odor : Amine
- pH : Not available.
- Vapour pressure : Not available.
- Vapor density : Heavier than air

POLYCOLOR C/A

Version 2.
REVISION DATE: 03/23/2010

Print Date 03/24/2010

Melting point/range : Not available.
 Freezing point : Not available.
 Boiling point/range : Not available.
 Water solubility : Partially soluble
 Evaporation Rate: : Not available.
 Specific Gravity : 0.94
 % Volatile Weight : 36 %

SECTION 10 - REACTIVITY / STABILITY

Substances to avoid : Oxidizing agents.Epoxies.Isocyanates.Acids.
 Stability : Material is stable under normal storage, handling, and use.
 Hazardous polymerization : Will not occur under normal conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

1-Methoxy-2-Propanol, CAS-No.: 107-98-2
 Acute oral toxicity (LD-50 oral) 36 g/kg (Rat)
 Acute inhalation toxicity (LC-50) 54.6 mg/l for 4 h (Rat)

 n-Butanol, CAS-No.: 71-36-3
 Acute oral toxicity (LD-50 oral) 790 mg/kg (Rat)
 Acute inhalation toxicity (LC-50) 8,000 mg/l for 4 h (Rat)
 Acute dermal toxicity (LD-50 dermal) 3,400 mg/kg (Rabbit)

SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

RCRA Class : D001: Reportable Quantity = 100 lbs. (Characteristic of ignitability)
 This classification applies only to the material as it was originally produced.

 Disposal Method : Dispose as hazardous waste according to all local, state, federal and provincial regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

TDG / DOT Shipping Description:
 NOT REGULATED



POLYCOLOR C/A

Version 2.
REVISION DATE: 03/23/2010

Print Date 03/24/2010

SECTION 15 - REGULATORY INFORMATION

North American Inventories:

All components are listed or exempt from the TSCA inventory.
This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

Canadian Regulations:

B3, D2B

This is a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Other Regulations:

Regulatory VOC (less water and exempt solvent) : 341 g/l

SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	3
Flammability	2
Reactivity	1
PPE	

0 = Minimum
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

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Legend

- ACGIH - American Conference of Governmental Hygienists
- DOT - Department of Transportation
- DSL - Domestic Substance List
- EPA - Environmental Protection Agency
- HMIS - Hazardous Materials Information System
- IARC - International Agency for Research on Cancer
- MSHA - Mine Safety Health Administration
- NDSL - Non-Domestic Substance List
- NIOSH - National Institute for Occupational Safety and Health
- NTP - National Toxicology Program
- OSHA - Occupational Safety and Health Administration
- PEL - Permissible Exposure Limit
- RCRA - Resource Conservation and Recovery Act
- STEL - Short Term Exposure Limit
- TLV - Threshold Limit Value
- TSCA - Toxic Substances Control Act
- TWA - Time Weighted Average
- V - Volume
- VOC - Volatile Organic Compound
- WHMIS - Workplace Hazardous Materials Information System