Material Safety Data Sheet



THC 900 NEUTRAL BASE

Version 2. REVISION DATE: 08/08/2008 Print Date 08/09/2008

This is a kit that contains the following components:

THC900 NEUTRAL BASE THC 900 CURING AGENT



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SECTION 1 - PRODUCT IDENTIFICATION

Trade name THC900 NEUTRAL BASE

Product code 868406 802

COMPANY : Tremco Incorporated

> 3735 Green Road Cleveland, OH 44122

: (216) 292-5000 8:30 - 5:00 EST Telephone

Emergency Phone: : (216) 765-6727 8:30 - 5:00 EST

After Hours: Chemtrec 1-800-424-9300

Product use : Sealant

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

Off-White. Non-sag gunnable paste. May cause slight irritation to the respiratory system. May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. May cause allergic respiratory sensitization. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention. 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

May cause slight irritation to the respiratory system. May cause nausea, headaches, and Inhalation

dizziness. May cause drowsiness, weakness, and fatigue. May cause allergic respiratory

sensitization.

Direct contact may cause mild irritation. Eyes

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 and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

Overexposure may cause dermatitis, asthma, skin and respiratory sensitization and decreased lung function. 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. Prolonged or repeated exposure 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, and testes damage. Toluene overexposure may cause burns of the skin, respiratory tract damage. May be harmful to the human fetus based on animal tests and limited epidemiology data. Fillers are encapsulated and not expected to be released from product under normal conditions of use. Prolonged or repeated exposure to mineral spirits (petroleum naphtha or stoddard solvent) may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, and adverse liver, kidney, and lung effects.

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Target Organs: Skin, Eye, Ingestion, Lung

SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight %
Polyurethane Polymer	NJ TSRN# 51721300-5000P	40.0 - 70.0
Calcium Carbonate (Limestone)	1317-65-3	30.0 - 60.0
Bis(2-ethylhexyl) adipate	103-23-1	15.0 - 40.0
Stoddard solvent (Mineral Spirits)	8052-41-3	1.0 - 5.0
Toluene	108-88-3	1.0 - 5.0
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	- <1.0

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. Move to fresh air. If required, artificial respiration or administration

of oxygen can be performed by trained personnel.

Flush with water for at least 15 minutes while holding eye lids apart. Get medical Eye contact

attention immediately.

Clean area of contact thoroughly using soap and water. If irritation, rash or other Skin contact

disorders develop, get medical attention immediately.

Do not induce vomiting unless advised by a physician. Call nearest Poison Control Ingestion

Center or Physician immediately.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point 47 ℃, 117 F

Method Setaflash Closed Cup Lower explosion limit 1.00 %(V) Solvent Upper explosion limit 7.1 %(V) Solvent

Autoignition temperature Not available.

Extinguishing media If water fog is ineffective, use carbon dioxide, dry chemical or foam. Carbon monoxide and carbon dioxide can form. Hydrocyanic acid and Hazardous combustion

nitrogen oxides can form. products

Protective equipment for Use accepted fire fighting techniques. Wear full firefighting protective

firefighters clothing, including self-contained breathing apparatus (SCBA).

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Scrape up and transfer to appropriate container for disposal.



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SECTION 7 - HANDLING AND STORAGE

Prevent inhalation of vapor, ingestion and contact with skin, eyes and clothing. Preferably use entire contents in one continuous work session. Do not smoke, weld, generate sparks, or use flame near container. Change soiled work clothes frequently. Clean hands thoroughly after handling Do not store or use near food. Keep container closed when not in use. Since emptied containers retain product residue and vapor, observe precautions even after container is emptied. Store under dry warehouse conditions away from heat and all ignition sources.

SECTION 8 - 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 : Wear appropriate eye protection. Use safety glasses if eye contact is likely.

Skin and body protection : Use disposable or impervious clothing if work clothing contamination is likely.

Remove and wash contaminated clothing before reuse.

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

Engineering measures : 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	<u>Limit</u>	<u>Form</u>
Calcium Carbonate	1317-65-3	OSHA PEL:	5 mg/m3	Respirable fraction.
(Limestone)		OSHA PEL:	15 mg/m3	Total dust.
		ACGIH TWA:	3 mg/m3	Respirable particles.
		ACGIH TWA:	10 mg/m3	Inhalable particles.
		OSHA TWA:	15 mg/m3	Total dust.
		OSHA TWA:	5 mg/m3	Respirable fraction.
Stoddard solvent (Mineral	8052-41-3	ACGIH TWA:	100 ppm	
Spirits)		OSHA PEL:	2,900 mg/m3	
Toluene	108-88-3	ACGIH TWA:	20 ppm	
		OSHA TWA:	200 ppm	
Crystalline Silica (Quartz)/	14808-60-7	OSHA TWA:	0.1 mg/m3	Respirable.
Silica Sand		OSHA TWA:	0.3 mg/m3	Total dust.
		OSHA PEL:	15 mg/m3	Total dust.
		OSHA PEL:	5 mg/m3	Respirable fraction.
		ACGIH TWA:	0.025 mg/m3	Respirable fraction.



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form : Non-sag gunnable paste

: Off-White Color Odor : Mild Aromatic pΗ : Not available. : Not available. Vapour pressure : Heavier than air Vapor density Melting point/range : Not available. Freezing point : Not available. : Not available. Boiling point/range Water solubility : Negligible Specific Gravity : 1.32 % Volatile Weight : 4%

SECTION 10 - REACTIVITY / STABILITY

Substances to avoid : Amines.Water or moisture and oxidizing agents.Alcohols.Strong

acids.Strong bases.

Stability : Material is stable under normal storage, handling, and use.

Hazardous polymerization : Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Bis(2-ethylhexyl) adipate, CAS-No.: 103-23-1

Acute oral toxicity (LD-50 oral) 15,000 mg/kg (Mouse) 25,000 mg/kg (Mouse) 9,110

mg/kg (Rat) 5,600 mg/kg (Rat) 45,000 mg/kg (Rat)

25,000 mg/kg (Rat)

Toluene, CAS-No.: 108-88-3

Acute oral toxicity (LD-50 oral) 2,600 - 7,500 mg/kg (Rat) 5,000 mg/kg (Rat)

Acute inhalation toxicity (LC-50) 26,700 mg/l for 1 h (Rat) 400 mg/l for 24 h (Mouse) 5,320

mg/l for 8 h (Mouse)

Acute dermal toxicity (LD-50 dermal) 12,124 mg/kg (Rabbit)



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SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - 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 : Waste not regulated under RCRA. Dispose of in compliance with state and local

regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

TDG / DOT Shipping Description:

NOT REGULATED

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.

U.S. Federal Regulations:

SARA 313 Components : Toluene 108-88-3

SARA 311/312 Hazards : Acute Health Hazard

Fire Hazard

OSHA Hazardous Components:

Calcium Carbonate (Limestone) 1317-65-3
Stoddard solvent (Mineral Spirits) 8052-41-3
Toluene 108-88-3
Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

OSHA Status: Considered : Irritant

hazardous based on the

following criteria:

OSHA Flammability : II

Regulatory VOC (less water and : 56 g/l

exempt solvent)

VOC Method 310 : 4 %

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen: Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

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U.S. State Regulations:

MASS RTK Components Calcium Carbonate (Limestone) 1317-65-3

> Bis(2-ethylhexyl) adipate 103-23-1 Stoddard solvent (Mineral Spirits) 8052-41-3 Toluene 108-88-3

Penn RTK Components Polyurethane Polymer NJ TSRN# 51721300-5000P

> Calcium Carbonate (Limestone) 1317-65-3 Bis(2-ethylhexyl) adipate 103-23-1 Stoddard solvent (Mineral Spirits) 8052-41-3 Toluene 108-88-3

NJ RTK Components Polyurethane Polymer NJ TSRN# 51721300-5000P

> Calcium Carbonate (Limestone) 1317-65-3 Bis(2-ethylhexyl) adipate 103-23-1 Stoddard solvent (Mineral Spirits) 8052-41-3 Toluene 108-88-3

Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:

108-88-3 Toluene

14808-60-7 Crystalline Silica (Quartz)/ Silica Sand

71-43-2 Benzene

SECTION 16 - OTHER INFORMATION

HMIS Rating:

Health	3	0 = Minimum
Flammability	2	1 = Slight
Reactivity	0	2 = Moderate
PPE		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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Prepared by: Rich Mikol

Legend

ACGIH - American Conference of Governmental Hygienists PEL - Permissible Exposure Limit

CERCLA - Comprehensive Environmental Response, Compensation, and RCRA - Resource Conservation and Recovery Act

Liability Act



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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

RTK - Right To Know

SARA - Superfund Amendments and Reauthorization 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



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SECTION 1 - PRODUCT IDENTIFICATION

Trade name : THC 900 CURING AGENT

Product code : 868406 802

COMPANY : Tremco Incorporated

3735 Green Road Cleveland, OH 44122

Telephone : (216) 292-5000 8:30 - 5:00 EST

Emergency Phone: : (216) 765-6727 8:30 - 5:00 EST

After Hours: Chemtrec 1-800-424-9300

Product use : Curative

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

Yellow. Liquid. May cause slight irritation to the respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

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 irritation to the mouth, throat and stomach. May cause chemical burns to

stomach, mouth, nose, and throat.

Skin : May cause moderate irritation. May cause sensitization resulting in irritation, itching and

redness.

Aggravated Medical Conditions

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

Chronic Health Effects

Prolonged and repeated overexposure to amines may cause liver and kidney damage based on animal studies. 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. 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. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Skin, Eye, Lung

SECTION 3 - PRODUCT COMPOSITION



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Chemical Name	CAS-No.	Weight %
Fatty Acid Amine Adduct	NJ TSRN# 51721300-5002P	40.0 - 70.0
Xylene	1330-20-7	10.0 - 30.0
Tricresyl phosphate	1330-78-5	10.0 - 30.0
Polyamine	9046-10-0	10.0 - 30.0
Ethylbenzene	100-41-4	3.0 - 7.0

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 FIGHTING MEASURES

Flash point : $105 \, \text{F}, 41 \, \text{C}$

Method : Setaflash 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, carbon dioxide, and nitrogen oxides.

Protective equipment for : Use accepted fire fighting techniques. Wear full firefighting pr

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.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Stop flow. Contain spill. Keep out of water courses. Absorb spill in sand, earth or other suitable material. Transfer to appropriate container for disposal.

SECTION 7 - HANDLING AND STORAGE

Store under normal warehouse conditions in sealed containers. Keep container closed when not in use. Vapor may migrate to sources of ignition. Do not smoke, weld, generate sparks, or use flame near container. Change soiled work clothes frequently. Clean hands thoroughly after handling. 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. Handle in compliance with common hygienic practices. Clean hands thoroughly after



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handling.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment

Respiratory protection : Use full engineering controls before relying on personal protective

equipment.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 : Protect hands with impervious gloves.

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.

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

Engineering measures : Use local exhaust when the general ventilation is inadequate.

Exposure Limits

Chemical Name	CAS Number	Regulation	<u>Limit</u>	<u>Form</u>
Xylene	1330-20-7	ACGIH TWA: ACGIH STEL:	100 ppm 150 ppm	
		OSHA PEL:	435 mg/m3	
Ethylbenzene	100-41-4	ACGIH TWA: ACGIH STEL:	100 ppm 125 ppm	
		OSHA PEL:	435 mg/m3	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid
Color : Yellow
Odor : Amine

pΗ : Not available. Vapour pressure Not available. : Not available. Vapor density : Not available. Melting point/range Freezing point : Not available. Boiling point/range : Not available. Water solubility : Negligible Specific Gravity : 0.98 % Volatile Weight : 17 %



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SECTION 10 - REACTIVITY / STABILITY

Substances to avoid : Acids.

Stability : Stable under normal conditions. Avoid welding arcs, flames or other high

temperature sources.

Hazardous polymerization : Will not occur under normal conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

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) 3,523 - 8,600 mg/kg (Rat) 5,627 mg/kg (Mouse)

Acute inhalation toxicity (LC-50) 6,350 mg/l for 4 h (Rat) 3,907 mg/l for 6 h (Mouse) 8,000

mg/l for 4 h (Rat)

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 - 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 : Subject to hazardous waste treatment, storage, and disposal requirements under

RCRA. Recycle or incinerate waste at EPA approved facility or dispose of in

compliance with federal, state and local regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

TDG / DOT Shipping Description:

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Xylene, Amines), 3 (8), UN2924, PG III

SECTION 15 - REGULATORY INFORMATION

North American Inventories:

All components are listed or exempt from the TSCA inventory.

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U.S. Federal Regulations:

SARA 313 Components : Xylene 1330-20-7

Ethylbenzene 100-41-4

SARA 311/312 Hazards : Acute Health Hazard

Fire Hazard

OSHA Hazardous Components:

Xylene 1330-20-7 Ethylbenzene 100-41-4

OSHA Status: Considered hazardous based on the

: Irritant Corrosive

following criteria:

OSHA Flammability : II

Regulatory VOC (less water and

exempt solvent)

: 176 g/l

VOC Method 310 : 17 %

U.S. State Regulations:

MASS RTK Components : Xylene 1330-20-7

Ethylbenzene 100-41-4

Penn RTK Components : Fatty Acid Amine Adduct NJ TSRN# 51721300-5002P

Xylene 1330-20-7

Tricresyl phosphate 1330-78-5
Polyamine 9046-10-0
Ethylbenzene 100-41-4

NJ RTK Components : Fatty Acid Amine Adduct NJ TSRN# 51721300-5002P

Xylene 1330-20-7

Tricresyl phosphate 1330-78-5
Polyamine 9046-10-0
Ethylbenzene 100-41-4

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:

100-41-4 Ethylbenzene 108-88-3 Toluene



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SECTION 16 - OTHER INFORMATION

HMIS Rating:

Health	2	0 = Minimum
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Reactivity	1	2 = Moderate
PPE		3 = Serious
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