# TNEMEC

# **Safety Data Sheet**

Issue Date 28-Aug-2018 Revision Date 30-Jan-2018 Revision Number 11

# 1. IDENTIFICATION

Product identifier

Product Code F046H0413A

Product Name COAL TAR CTG. HB TNEME-TAR BLK

Other means of identification

Common Name SERIES 46H-413, PART A

UN/ID no. 1263 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use industrial paint.

**Uses advised against**Consumer use, For professional use only. Not for residential use.

Details of the supplier of the safety data sheet

Manufacturer Address Distributor

Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO Tnemec Company, Inc. 86 Boul, des Entreprises, Ste. 203,

64120-1372 816-474-3400 Boisbriand, Quebec Canada J7G 2T3

Emergency telephone number

Company Phone Number Tnemec Regulatory Dept: 816-474-3400

24 Hour Emergency Phone Number 800-535-5053 (Infotrac)

# 2. HAZARDS IDENTIFICATION

# Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1A
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 2
Flammable Liquids	Category 3

#### Label elements

# **EMERGENCY OVERVIEW**

# Danger

#### Hazard statements

Causes skin irritation

May cause an allergic skin reaction

May cause genetic defects

May cause cancer

May damage fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure

Flammable liquid and vapor



Appearance opaque Physical state liquid Odor aromatic

# **Precautionary Statements**

#### Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Do not breathe dust/fume/gas/mist/vapors/spray

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Use explosion-proof electrical/ventilating/lighting/equipment

#### Response

IF exposed or concerned: Get medical advice/attention

specific treatment

If skin irritation or rash occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage

Store locked up

Store in a well-ventilated place. Keep cool

#### Disposa

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

#### Other information

Very toxic to aquatic life with long lasting effects

Acute Toxicity 1.2925 % of the mixture consists of ingredient(s) of unknown toxicity.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
TALC (RESPIRABLE DUST)	14807-96-6	30 - <60%
REFINED COAL TAR PITCH	65996-93-2	10 - <30%
XYLENE	1330-20-7	1 - <10%
ETHYL BENZENE	100-41-4	1 - <10%
MODIFIED ALIPHATIC AMINE	90-72-2	1 - <10%
TRIETHYLENE TETRAMINE	112-24-3	0.1 - <1%
PHENANTHRENE	85-01-8	0.1 - <1%
BENZENE, 1,4-DIMETHYL	106-42-3	0.1 - <1%

Revision Date 30-Jan-2018

Ī	BENZENE, 1,3-DIMETHYL	108-38-3	0.1 - <1%

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

#### Description of first aid measures

**General advice** If symptoms persist, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

eye irritation persists, consult a specialist.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If skin irritation persists, call a physician.

**Inhalation** Remove to fresh air. Oxygen or artificial respiration if needed.

Ingestion If swallowed, do not induce vomiting. Get medical attention immediately. Drink 1 or 2

glasses of water.

Most important symptoms and effects, both acute and delayed

Notes to physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Carbon dioxide. Foam. Dry chemical.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapours In the event of fire and/or explosion do not breathe fumes

Hazardous combustion products Hazardous combustion products may include: A complex mixture of airborne solid and

liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Carbon oxides. Hydrocarbons. Oxides of nitrogen. Ammonia. Nitric acid,

nitrosamine. Aldehydes.

#### Protective equipment and precautions for firefighters

Use water spray to cool unopened containers. In the event of fire, wear self-contained breathing apparatus. Keep away from heat/sparks/open flames/hot surfaces. MAY CAUSE HEAT AND PRESSURE BUILD-UP IN CLOSED CONTAINERS. Solvent vapors are heavier than air and may spread along floors. Flash back possible over considerable distance.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes, skin and clothing. Use personal protective equipment. Remove all

sources of ignition.

**Environmental Precautions** 

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface water or

sanitary sewer system.

#### Methods and material for containment and cleaning up

**Methods for containment** Remove all sources of ignition. Spills may be collected with inert, absorbent material for

proper disposal. Use non-sparking tools, protective gloves, goggles and clothing, adequate ventilation, avoid the breathing of vapors and use respiratory protective devices. Transfer

absorbent material to suitable containers for proper disposal.

Methods for cleaning up If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated

absorbent, container and unused contents in accordance with local, state and federal

regulations.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Wear personal

protective equipment. Remove and wash contaminated clothing before re-use. Avoid contact with eyes, skin and clothing. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not breathe vapours or spray mist. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not ingest. Do not eat, drink or smoke when using this

product. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children.

Incompatible products Strong oxidizing agents. Acids. Hypochlorites. Water, alcohols, amines, strong bases, metal

components, surface active materials.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
TALC (RESPIRABLE DUST) 14807-96-6	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	1000 mg/m <sup>3</sup>
REFINED COAL TAR PITCH 65996-93-2	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	80 mg/m <sup>3</sup>
XYLENE 1330-20-7	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 435 mg/m³ STEL: 150 ppm STEL: 655 mg/m³	
ETHYL BENZENE 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m³ STEL: 125 ppm STEL: 545 mg/m³	800 ppm
PHENANTHRENE 85-01-8	-	TWA: 0.2 mg/m <sup>3</sup>	
BENZENE, 1,4-DIMETHYL 106-42-3	TWA: 100 ppm STEL: 150 ppm	-	900 ppm
BENZENE, 1,3-DIMETHYL 108-38-3	TWA: 100 ppm STEL: 150 ppm	-	900 ppm

NIOSH IDLH: Immediately Dangerous to Life or Health

# Appropriate engineering controls

Engineering measures

Sufficient ventilation, in volume and pattern, should be provided through both local and general exhaust to keep the air contaminant concentration below current applicable OSHA

Permissible Exposure Limits (PEL) and ACGIH"s Threshold Limit Values (TLV).

Appropriate ventilation should be employed to remove hazardous decomposition products formed during welding or flame cutting operations of surfaces coated with this product.

#### Individual protection measures, such as personal protective equipment

face-shield.

**Skin and body protection**Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

**Respiratory protection**Use only with adequate ventilation. Do not breathe vapors, spray mist, or dust. Ensure fresh

air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist or dust levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and

after application. Follow respirator manufacturer's directions for respirator use.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

Avoid breathing dust created by cutting, sanding, or grinding.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state liquid

Appearance opaque Odor aromatic

ColorNo information availableOdor thresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks</u>

pН

Melting point / freezing point No data available

Boiling point / boiling range

Flash point 27 °C / 81.0 °F Pensky Martens - Closed Cup

**Evaporation rate** 

Flammability (solid, gas) No data available

Flammability Limit in Air

Upper flammability limit N/A
Lower flammability limit 1.0

Vapor pressure

Vapor density

Specific gravity 1.3504 g/cm3

Water solubility Insoluble in cold water

Solubility in other solvents

Partition coefficient: n-octanol/water

Autoignition temperature No data available

**Decomposition temperature** 

Kinematic viscosity

**Dynamic viscosity** 3200 centipoises approx

#### **Other Information**

Density 11.26235 Volatile organic compounds (VOC) 1.69386

content

Total volatiles weight percent 15.04 % Total volatiles volume percent 23.42 %

Bulk density No information available

#### 10. STABILITY AND REACTIVITY

# Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

#### Conditions to avoid

Heat, flames and sparks. Epoxy constituents.

#### Incompatible materials

Strong oxidizing agents, Acids, Hypochlorites, Water, alcohols, amines, strong bases, metal components, surface active materials

#### Hazardous decomposition products

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Nitric acid, nitrosamine. Oxides of nitrogen. Ammonia. Hydrocarbons. Aldehydes.

# 11. TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

Inhalation May cause central nervous system depression with nausea, headache, dizziness, vomiting,

and incoordination.

Eye contact Causes serious eye irritation.

Irritating to skin. May cause sensitization by skin contact. Skin contact

Harmful if swallowed. Ingestion

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
REFINED COAL TAR PITCH	= 3300 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
65996-93-2			
XYLENE	= 3500 mg/kg (Rat)	> 1700 mg/kg (Rabbit) > 4350	= 29.08 mg/L (Rat) 4 h = 5000
1330-20-7		mg/kg (Rabbit)	ppm (Rat)4h
ETHYL BENZENE	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat) 4 h
100-41-4			
MODIFIED ALIPHATIC AMINE	= 1200 mg/kg (Rat)	= 1280 mg/kg (Rat)	-
90-72-2			
TRIETHYLENE TETRAMINE	= 2500 mg/kg (Rat)	= 550 mg/kg (Rabbit)	-
112-24-3			
PHENANTHRENE	= 1.8 g/kg (Rat)	-	-
85-01-8			
BENZENE, 1,4-DIMETHYL	= 4029 mg/kg (Rat)	-	= 4550 ppm (Rat) 4 h = 4740 ppm
106-42-3			( Rat ) 4 h
BENZENE, 1,3-DIMETHYL	= 5 g/kg (Rat)	= 12.18 g/kg (Rabbit) = 14100	= 5984 ppm (Rat) 6 h
108-38-3		μL/kg (Rabbit)	

#### Information on toxicological effects

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. **Symptoms** 

Skin disorders. Irritating to eyes and skin.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** NOTICE: Reports have associated repeated and prolonged occupational overexposure to

> solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Cancer hazard. Contains coal tar which can cause cancer. (Risk of cancer depends on duration and level of exposure). Substances known to impair fertility. Substances known to be

mutagenic to man. Skin sensitizer.

**Sensitization** May cause sensitization of susceptible persons.

**Mutagenicity** May cause genetic defects.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
TALC (RESPIRABLE DUST)		Group 2B	-	
14807-96-6		Group 3		
REFINED COAL TAR	A1	Group 1	Known	X
PITCH				
65996-93-2				
XYLENE		Group 3	-	
1330-20-7				
ETHYL BENZENE	A3	Group 2B	-	X
100-41-4				
PHENANTHRENE		Group 3	-	
85-01-8				
BENZENE, 1,4-DIMETHYL		Group 3	-	
106-42-3				
BENZENE, 1,3-DIMETHYL		Group 3	-	
108-38-3				

**Reproductive effects** May damage fertility or the unborn child.

STOT - single exposure No information available

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure

Target organ effects Bladder, Central nervous system, Central Vascular System (CVS), Eyes, kidney, Lungs,

respiratory system, Skin, blood, Gastrointestinal tract, liver.

**Aspiration hazard** No information available.

Acute Toxicity 1.2925 % of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document .

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

1.0893844 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia
TALC (RESPIRABLE DUST)		100: 96 h Brachydanio rerio g/L	
14807-96-6		LC50 semi-static	
XYLENE		LC50= 13.4 mg/L Pimephales	EC50 = 3.82 mg/L 48 h LC50 = 0.6
1330-20-7		promelas 96 h LC50 2.661 - 4.093	mg/L 48 h
		mg/L Oncorhynchus mykiss 96 h	ľ
		LC50 13.5 - 17.3 mg/L	
		Oncorhynchus mykiss 96 h LC50	
		13.1 - 16.5 mg/L Lepomis	
		macrochirus 96 h LC50= 19 mg/L	
		Lepomis macrochirus 96 h LC50	
		7.711 - 9.591 mg/L Lepomis	
		macrochirus 96 h LC50 23.53 -	
		29.97 mg/L Pimephales promelas	
		96 h LC50= 780 mg/L Cyprinus	
		carpio 96 h LC50> 780 mg/L	
		Cyprinus carpio 96 h LC50 30.26 -	
		40.75 mg/L Poecilia reticulata 96 h	
ETHYL BENZENE	4.6: 72 h Pseudokirchneriella	11.0 - 18.0: 96 h Oncorhynchus	1.8 - 2.4: 48 h Daphnia magna mg/L
100-41-4	subcapitata mg/L EC50 438: 96 h	mykiss mg/L LC50 static 9.1 - 15.6:	EC50
	Pseudokirchneriella subcapitata	96 h Pimephales promelas mg/L	
	mg/L EC50 2.6 - 11.3: 72 h	LC50 static 32: 96 h Lepomis	
	Pseudokirchneriella subcapitata	macrochirus mg/L LC50 static 9.6:	
	mg/L EC50 static 1.7 - 7.6: 96 h	96 h Poecilia reticulata mg/L LC50	
	Pseudokirchneriella subcapitata	static 7.55 - 11: 96 h Pimephales	
	mg/L EC50 static	promelas mg/L LC50 flow-through	
		4.2: 96 h Oncorhynchus mykiss	
		mg/L LC50 semi-static	
TRIETHYLENE TETRAMINE	2.5: 72 h Desmodesmus	570: 96 h Poecilia reticulata mg/L	31.1: 48 h Daphnia magna mg/L
112-24-3	subspicatus mg/L EC50 20: 72 h	LC50 semi-static 495: 96 h	EC50

	Pseudokirchneriella subcapitata mg/L EC50 3.7: 96 h Pseudokirchneriella subcapitata mg/L EC50	Pimephales promelas mg/L LC50	
BENZENE, 1,4-DIMETHYL 106-42-3	105.1: 3 h Chlorella vulgaris mg/L EC50 3.2: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	7.2 - 9.9: 96 h Pimephales promelas mg/L LC50 static 2.6: 96 h Oncorhynchus mykiss mg/L LC50 8.8: 96 h Poecilia reticulata mg/L LC50 semi-static 2.6: 96 h Oncorhynchus mykiss mg/L LC50 static	3.55 - 6.31: 48 h Daphnia magna mg/L EC50 Static
BENZENE, 1,3-DIMETHYL 108-38-3	4.9: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	14.3 - 18: 96 h Pimephales promelas mg/L LC50 flow-through 8.4: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 12.9: 96 h Poecilia reticulata mg/L LC50 semi-static	2.81 - 5.0: 48 h Daphnia magna mg/L EC50 Static

# Persistence and degradability

No information available.

# **Bioaccumulation**

No information available.

Mobility in Environmental Media

Chemical name	log Pow	
REFINED COAL TAR PITCH	6.04	
65996-93-2		
XYLENE	2.77	
1330-20-7		
ETHYL BENZENE	3.118	
100-41-4		
MODIFIED ALIPHATIC AMINE	0.219	
90-72-2		
TRIETHYLENE TETRAMINE	-1.4	
112-24-3		
PHENANTHRENE	4.5	
85-01-8		
BENZENE, 1,4-DIMETHYL	3.15	
106-42-3		
BENZENE, 1,3-DIMETHYL	3.2	
108-38-3		

Other Adverse Effects

No information available

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

Disposal Methods Keep container tightly closed. If spilled, contain spilled material and remove with inert

absorbent. Dispose of contaminated absorbent, container and unused contents in

accordance with local, state and federal regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

#### **US EPA Waste Number**

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
XYLENE		Included in waste stream:		U239
1330-20-7		F039		
ETHYL BENZENE		Included in waste stream:		
100-41-4		F039		
PHENANTHRENE		Included in waste stream:		
85-01-8		F039		
PYRENE		Included in waste stream:		

129-00-0		F039	
ACENAPHTHENE 83-32-9		Included in waste streams: F039	
NAPTHALENE 91-20-3	U165	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145	U165

#### **California Hazardous Waste Status**

This product contains one or more substances that are listed with the State of California as a hazardous waste

Chemical name	CAWAST
XYLENE	Toxic
1330-20-7	Ignitable
ETHYL BENZENE	Toxic
100-41-4	Ignitable

# 14. TRANSPORT INFORMATION

DOT

UN/ID no. 1263
Proper Shipping Name PAINT
Hazard Class 3
Packing Group III
Emergency Response Guide 128

Number

Additional information Call TNEMEC Traffic Department - 816-474-3400 for additional information or other modes

of Transportation.

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies

**ENCS** Does Not Comply

IECSCCompliesKECLCompliesPICCSCompliesAICSComplies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Chemical name HAPS Data

REFINED COAL TAR PITCH

XYLENE

ETHYL BENZENE

BENZENE, 1,4-DIMETHYL BENZENE, 1,3-DIMETHYL

**SARA 313** 

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372:

Chemical name	SARA 313 - Threshold Values
XYLENE - 1330-20-7	1.0
ETHYL BENZENE - 100-41-4	0.1
PHENANTHRENE - 85-01-8	1.0
BENZENE, 1,4-DIMETHYL - 106-42-3	1.0
BENZENE. 1.3-DIMETHYL - 108-38-3	1.0

#### SARA 311/312 Hazardous

Categorization

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

# Clean Water Act

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
XYLENE	100 lb			X
1330-20-7				
ETHYL BENZENE	1000 lb	X	X	X
100-41-4				
PHENANTHRENE			X	
85-01-8				
BENZENE, 1,4-DIMETHYL				X
106-42-3				
BENZENE, 1,3-DIMETHYL				X
108-38-3				

#### CERCLA

Chemical name	Hazardous Substances RQs	CERCLA EHS RQs	RQ
XYLENE	100 lb		RQ 100 lb final RQ
1330-20-7			RQ 45.4 kg final RQ
ETHYL BENZENE	1000 lb		RQ 1000 lb final RQ
100-41-4			RQ 454 kg final RQ
PHENANTHRENE	5000 lb		RQ 5000 lb final RQ
85-01-8			RQ 2270 kg final RQ
BENZENE, 1,4-DIMETHYL	100 lb		RQ 100 lb final RQ
106-42-3			RQ 45.4 kg final RQ
BENZENE, 1,3-DIMETHYL	1000 lb		RQ 1000 lb final RQ
108-38-3			RQ 454 kg final RQ

# California Prop. 65

**WARNING:** This product can expose you to the following chemicals which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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Chemical name	California Prop. 65
ETHYL BENZENE - 100-41-4	Carcinogen
BENZENE, 1,3-DIMETHYL - 108-38-3	*
BENZENE, 1,2-DIMETHYL - 95-47-6	*
NAPTHALENE - 91-20-3	Carcinogen

#### California SCAQMD Rule 443

Contains Photochemically Reactive Solvent

#### **State Right-to-Know**

Chemical name	New Jersey	Massachusetts	Pennsylvania
TALC (RESPIRABLE DUST)	X	X	X
14807-96-6			

REFINED COAL TAR PITCH	X	Х	X
65996-93-2			
XYLENE	X	X	X
1330-20-7			
ETHYL BENZENE	X	X	X
100-41-4			
TRIETHYLENE TETRAMINE	X	X	X
112-24-3			
PHENANTHRENE	X	X	X
85-01-8			
BENZENE, 1,4-DIMETHYL	X	X	X
106-42-3			
BENZENE, 1,3-DIMETHYL	X	X	X
108-38-3			

# **16. OTHER INFORMATION**

NFPA Health 3 Flammability 3 Instability 1 Physical hazard \* HMIS (Hazardous Health 3\* Flammability 3 Reactivity 1

Material Information
System)

Prepared By

Prepared By Tnemec Regulatory Dept: 816-474-3400

**Revision Date** 30-Jan-2018

**Revision Summary** 9 5 7 10 8 11 14 13 15

**Disclaimer** 

For specific information regarding occupational safety and health standards, please refer to the Code of Federal Regulations, Title 29, Part 1910.

To the best of our knowledge, the information contained herein is accurate. However, neither the Tnemec Company or any of its subsidiaries assume any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

**End of SDS** 

# TNEMEC

# **Safety Data Sheet**

Issue Date 28-Aug-2018 Revision Date 05-Aug-2015 Revision Number 8

# 1. IDENTIFICATION

Product identifier

Product Code F046H0413B

Product Name COAL TAR CTG. HB CONVERTER

Other means of identification

Common Name SERIES 46H-413, PART B

UN/ID no. 1263 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use industrial paint.

**Uses advised against**Consumer use, For professional use only. Not for residential use.

Details of the supplier of the safety data sheet

Manufacturer Address Distributor

Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO Tnemec Company, Inc. 86 Boul, des Entreprises, Ste. 203,

64120-1372 816-474-3400 Boisbriand, Quebec Canada J7G 2T3

Emergency telephone number

Company Phone Number Tnemec Regulatory Dept: 816-474-3400

24 Hour Emergency Phone Number 800-535-5053 (Infotrac)

# 2. HAZARDS IDENTIFICATION

# Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Flammable Liquids	Category 3

## Label elements

#### **EMERGENCY OVERVIEW**

#### **Hazard statements**

Causes skin irritation

Causes serious eye irritation Suspected of causing cancer

May cause damage to organs through prolonged or repeated exposure

Flammable liquid and vapor

Revision Date 05-Aug-2015



Appearance opaque Physical state liquid Odor Slight

# **Precautionary Statements**

#### Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not breathe dust/fume/gas/mist/vapors/spray

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Use explosion-proof electrical/ventilating/lighting/equipment

#### Response

IF exposed or concerned: Get medical advice/attention

specific treatment

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage

Store locked up

Store in a well-ventilated place. Keep cool

#### Disposa

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

## Other information

Toxic to aquatic life with long lasting effects

Acute Toxicity 1.4E-06 % of the mixture consists of ingredient(s) of unknown toxicity.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
TALC (RESPIRABLE DUST)	14807-96-6	30 - <60%
EPOXY RESIN (LER)	25085-99-8	30 - <60%
XYLENE	1330-20-7	10 - <30%
ETHYL BENZENE	100-41-4	1 - <10%

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes. If eye irritation persists,

consult a specialist.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a physician.

**Inhalation** Remove to fresh air. Oxygen or artificial respiration if needed.

**Ingestion** Aspiration hazard. If swallowed, do not induce vomiting. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

Notes to physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Carbon dioxide. Foam. Dry chemical.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapours In the event of fire and/or explosion do not breathe fumes

Hazardous combustion products Hazardous combustion products may include: A complex mixture of airborne solid and

liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic

compounds. Hydrocarbons. Carbon dioxide. Aldehydes.

#### Protective equipment and precautions for firefighters

Use water spray to cool unopened containers. In the event of fire, wear self-contained breathing apparatus. Keep away from heat/sparks/open flames/hot surfaces. MAY CAUSE HEAT AND PRESSURE BUILD-UP IN CLOSED CONTAINERS. Solvent vapors are heavier than air and may spread along floors. Flash back possible over considerable distance.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes, skin and clothing. Use personal protective equipment. Remove all

sources of ignition.

**Environmental Precautions** 

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not flush into surface water or

sanitary sewer system.

## Methods and material for containment and cleaning up

**Methods for containment**Remove all sources of ignition. Spills may be collected with inert, absorbent material for

proper disposal. Use non-sparking tools, protective gloves, goggles and clothing, adequate ventilation, avoid the breathing of vapors and use respiratory protective devices. Transfer

absorbent material to suitable containers for proper disposal.

absorbent, container and unused contents in accordance with local, state and federal

regulations.

#### 7. HANDLING AND STORAGE

# Precautions for safe handling

Handling Close container after each use. Avoid contact with eyes, skin and clothing. Do not eat, drink

or smoke when using this product. If splashes are likely to occur, wear goggles. Wear protective gloves/clothing. Do not burn, or use a cutting torch on, the empty drum. When used in a mixture, read the labels and safety data sheets of all components. Wash

thoroughly after handling.

#### Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children.

**Incompatible products** Amines. Strong oxidizing agents. Acids. Bases.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
TALC (RESPIRABLE DUST) 14807-96-6	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	1000 mg/m <sup>3</sup>
XYLENE 1330-20-7	TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm TWA: 435 mg/m³ STEL: 150 ppm STEL: 655 mg/m³	
ETHYL BENZENE 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m³ STEL: 125 ppm STEL: 545 mg/m³	800 ppm

NIOSH IDLH: Immediately Dangerous to Life or Health

#### **Appropriate engineering controls**

**Engineering measures** Sufficient ventilation, in volume and pattern, should be provided through both local and

general exhaust to keep the air contaminant concentration below current applicable OSHA

Permissible Exposure Limits (PEL) and ACGIH"s Threshold Limit Values (TLV).

Appropriate ventilation should be employed to remove hazardous decomposition products formed during welding or flame cutting operations of surfaces coated with this product.

#### Individual protection measures, such as personal protective equipment

face-shield.

**Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist or dust levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and

after application. Follow respirator manufacturer's directions for respirator use.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Avoid breathing dust created by cutting, sanding, or grinding.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Physical state** 

**Appearance** opaque Odor Slight

Color No information available Odor threshold No information available

**Property** Values Remarks

Hq

Melting point / freezing point No data available Boiling point / boiling range 135 °C / 275.0 °F

Flash point 27 °C / 81.0 °F Pensky Martens - Closed Cup

**Evaporation rate** 

Flammability (solid, gas) No data available

Flammability Limit in Air

Upper flammability limit N/A Lower flammability limit 1.0

Vapor pressure Vapor density

Specific gravity 1.46116

g/cm3 Water solubility Insoluble in cold water

Solubility in other solvents

Partition coefficient: n-octanol/water

**Autoignition temperature** No data available

**Decomposition temperature** 

Kinematic viscosity **Dynamic viscosity** 

# Other Information

12.18607 lbs/gal Density Volatile organic compounds (VOC) 2.02167 lbs/gal

content

16.59 % Total volatiles weight percent Total volatiles volume percent 27.89 %

**Bulk density** No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

None under normal processing.

# Conditions to avoid

Heat, flames and sparks. Amines.

#### Incompatible materials

Amines, Strong oxidizing agents, Acids, Bases

# **Hazardous decomposition products**

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Aldehydes. Carbon oxides. Hydrocarbons.

# 11. TOXICOLOGICAL INFORMATION

# Information on Likely Routes of Exposure

**Inhalation** May cause central nervous system depression with nausea, headache, dizziness, vomiting,

and incoordination.

**Eye contact** Causes serious eye irritation.

**Skin contact** Irritating to skin. May cause sensitization of susceptible persons.

Ingestion Harmful if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
XYLENE	= 3500 mg/kg (Rat)	> 1700 mg/kg (Rabbit) > 4350	= 29.08 mg/L (Rat) 4 h = 5000
1330-20-7		mg/kg (Rabbit)	ppm (Rat)4h
ETHYL BENZENE	= 3500 mg/kg (Rat)	= 15400 mg/kg ( Rabbit )	= 17.4 mg/L (Rat) 4 h
100-41-4		- • • • •	- , ,

## Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Skin disorders. Irritating to eyes and skin.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity NOTICE: Reports have associated repeated and prolonged occupational overexposure to

solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. May cause

cancer. Skin sensitizer.

**Sensitization** May cause sensitization of susceptible persons.

Mutagenicity No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
TALC (RESPIRABLE DUST)		Group 2B	-	
14807-96-6		Group 3		
XYLENE		Group 3	-	
1330-20-7		·		
ETHYL BENZENE	A3	Group 2B	-	X
100-41-4		·		

Reproductive effects
STOT - single exposure
No information available.
No information available

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure

Target organ effects Central nervous system, Central Vascular System (CVS), Eyes, respiratory system, Skin,

blood, Gastrointestinal tract, kidney, liver.

**Aspiration hazard** Risk of serious damage to the lungs (by aspiration).

**Acute Toxicity** 1.4E-06 % of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

0.90511 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia
TALC (RESPIRABLE DUST)		100: 96 h Brachydanio rerio g/L	
14807-96-6		LC50 semi-static	
EPOXY RESIN (LER)	11 mg/L 72 hr	2 mg/L 96 hr Oncorhynchus mykiss	1.8 mg/L 48h
25085-99-8			•
XYLENE	_	LC50= 13.4 mg/L Pimephales	EC50 = 3.82 mg/L 48 h LC50 = 0.6

1220 20 7		promotos 06 h I C50 2 661 4 002	ma/L 49 h
1330-20-7		promelas 96 h LC50 2.661 - 4.093	mg/L 48 h
		mg/L Oncorhynchus mykiss 96 h	
		LC50 13.5 - 17.3 mg/L	
		Oncorhynchus mykiss 96 h LC50	
		13.1 - 16.5 mg/L Lepomis	
		macrochirus 96 h LC50= 19 mg/L	
		Lepomis macrochirus 96 h LC50	
		7.711 - 9.591 mg/L Lepomis	
		macrochirus 96 h LC50 23.53 -	
		29.97 mg/L Pimephales promelas	
		96 h LC50= 780 mg/L Cyprinus	
		carpio 96 h LC50> 780 mg/L	
		Cyprinus carpio 96 h LC50 30.26 -	
		40.75 mg/L Poecilia reticulata 96 h	
ETHYL BENZENE	4.6: 72 h Pseudokirchneriella	11.0 - 18.0: 96 h Oncorhynchus	1.8 - 2.4: 48 h Daphnia magna mg/L
100-41-4	subcapitata mg/L EC50 438: 96 h	mykiss mg/L LC50 static 9.1 - 15.6:	EC50
	Pseudokirchneriella subcapitata	96 h Pimephales promelas mg/L	
	mg/L EC50 2.6 - 11.3: 72 h	LC50 static 32: 96 h Lepomis	
	Pseudokirchneriella subcapitata	macrochirus mg/L LC50 static 9.6:	
	mg/L EC50 static 1.7 - 7.6: 96 h	96 h Poecilia reticulata mg/L LC50	
	Pseudokirchneriella subcapitata	static 7.55 - 11: 96 h Pimephales	
	mg/L EC50 static	promelas mg/L LC50 flow-through	
	mg/L Lood statio	4.2: 96 h Oncorhynchus mykiss	
		mg/L LC50 semi-static	
		my/L LOOU Semi-static	

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

**Mobility in Environmental Media** 

MODILLY III ETIVITOTIMENTAL MEGIA		
Chemical name	log Pow	
EPOXY RESIN (LER)	3	
25085-99-8		
XYLENE	2.77	
1330-20-7		
ETHYL BENZENE	3.118	
100-41-4		

Other Adverse Effects

No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal Methods** Keep container tightly closed. If spilled, contain spilled material and remove with inert

absorbent. Dispose of contaminated absorbent, container and unused contents in

accordance with local, state and federal regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
XYLENE	Included in waste stream:			U239
1330-20-7		F039		
ETHYL BENZENE		Included in waste stream:		
100-41-4		F039		

# **California Hazardous Waste Status**

This product contains one or more substances that are listed with the State of California as a hazardous waste

Chemical name	CAWAST
XYLENE	Toxic
1330-20-7	Ignitable

ETHYL BENZENE	Toxic
100-41-4	Ignitable

# 14. TRANSPORT INFORMATION

DOT

VN/ID no. 1263
Proper Shipping Name PAINT
Hazard Class 3
Packing Group III
Emergency Response Guide 128

Number

<u>Additional information</u> Call TNEMEC Traffic Department - 816-474-3400 for additional information or other modes

of Transportation.

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies DSL/NDSL Complies

EINECS/ELINCS Does Not Comply

ENCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Chemical name HAPS Data

XYLENE

ETHYL BENZENE

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372:

Chemical name	SARA 313 - Threshold Values	
XYLENE - 1330-20-7	1.0	
ETHYL BENZENE - 100-41-4	0.1	

# SARA 311/312 Hazardous

Categorization

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard No

ſ	Chemical name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous
L		Quantities			Substances

	XYLENE	100 lb			Х
L	1330-20-7				
Γ	ETHYL BENZENE	1000 lb	X	X	X
	100-41-4				

Chemical name	Hazardous Substances RQs	CERCLA EHS RQs	RQ
XYLENE	100 lb		RQ 100 lb final RQ
1330-20-7			RQ 45.4 kg final RQ
ETHYL BENZENE	1000 lb		RQ 1000 lb final RQ
100-41-4			RQ 454 kg final RQ

#### California Prop. 65

**WARNING:** This product can expose you to the following chemicals which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

t of more information go to www. covvaringereargev.		
Chemical name	California Prop. 65	
ETHYL BENZENE - 100-41-4	Carcinogen	

#### California SCAQMD Rule 443

Contains Photochemically Reactive Solvent

# State Right-to-Know

Chemical name	New Jersey	Massachusetts	Pennsylvania
TALC (RESPIRABLE DUST)	X	X	X
14807-96-6			
XYLENE	X	X	X
1330-20-7			
ETHYL BENZENE	X	X	X
100-41-4			

# **16. OTHER INFORMATION**

NFPA Health 2 Flammability 3 Instability 1 Physical hazard \*
HMIS (Hazardous Health 2\* Flammability 3 Reactivity 1

Material Information

System)

System)

Prepared By Tnemec Regulatory Dept: 816-474-3400

Revision Date 05-Aug-2015

**Revision Summary** 9 4 5 7 10 8 11 14

**Disclaimer** 

For specific information regarding occupational safety and health standards, please refer to the Code of Federal Regulations, Title 29, Part 1910.

To the best of our knowledge, the information contained herein is accurate. However, neither the Tnemec Company or any of its subsidiaries assume any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

**End of SDS**