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SAFETY DATA SHEET

Issue Date: 29 February 2016

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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: CON SEAL

Product Description: CONCRETE SEALER

Other Means of Identification

Product # 064, 065
Synonyms None

Details of the Supplier of the Safety Data Sheet

Company Name CHEMCO INDUSTRIES, INC.
5731 Manchester Avenue
St. Louis, MO 63110
www.chemcoindustries.com
314-647-1888
1-800-854-4236 (to Reorder)

Emergency Telephone Number

Emergency Telephone INFOTRAC 1-800-535-5053

2. HAZARDS IDENTIFICATION

Classification (GHS-US)

Flam. Liq. 3 H226
Eye Irrit. 2B H320
Skin Sens. 1 H317
Carc. 2 H351
Repr. 2 H361
STOT SE 3 H335
STOT RE 1 H372
Asp. Tox. 1 H304

*Full text of H-phrases: see section 16

GHS-US Labeling

Hazard pictograms (GHS-US):



Signal Word (GHS-US): Danger

Hazard Statements (GHS-US):

Flammable liquid and vapor
May be fatal if swallowed and enters airways
May cause an allergic skin reaction
Causes eye irritation
May cause respiratory irritation
Suspected of causing cancer
Suspected of damaging fertility or the unborn child
Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US):

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood

Keep away from heat, open flames, sparks . - No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use explosion-proof lighting, electrical equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Do not breathe mist, spray
 Wash thoroughly after handling
 Do not eat, drink or smoke when using this product
 Use only outdoors or in a well-ventilated area
 Contaminated work clothing must not be allowed out of the workplace
 Wear eye protection, protective clothing, protective gloves
 If swallowed: Immediately call a doctor, a POISON CENTER
 If on skin: Wash with plenty of soap and water.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
 If inhaled: Remove person to fresh air and keep comfortable for breathing
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If exposed or concerned: Get medical advice/attention
 Get medical advice/attention if you feel unwell
 Do NOT induce vomiting
 If skin irritation or rash occurs: Get medical advice/attention
 If eye irritation persists: Get medical advice/attention
 Take off contaminated clothing and wash it before reuse
 In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish
 Store in a well-ventilated place. Keep container tightly closed
 Keep cool
 Store locked up
 Dispose of contents/container to comply with local/regional/national/international regulations.

Other hazards: No additional information available

Unknown acute toxicity (GHS-US): Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Not applicable

*Full text of H-phrases: see section 16

Mixture:

Name	Product identifier	%	Classification (GHS-US)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	(CAS No) 64742-47-8	15-40	Flam. Liq. 4, H227 Asp. Tox. 1, H304
Proprietary Epoxy Resin	(CAS No) Proprietary	10-30	Eye Irrit. 2B, H320
Solvent naphtha (petroleum), medium aliph., Straight run kerosine, [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C9 through C12 and boiling in the range of approximately 140 C to 220 C(284 F to 428 F).]	(CAS No) 64742-88-7	10-30	STOT RE 1, H372 Asp. Tox. 1, H304
Xylene	(CAS No) 1330-20-7	10-30	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
Ethylbenzene	(CAS No) 100-41-4	1-5	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation, vapor), H332 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304

Cumene	(CAS No) 98-82-8	0.1-1	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H373 Asp. Tox.1, H304
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4. FIRST AID MEASURES

Description of first aid measures:

First-aid measures general:

First-aid measures after inhalation:

If you feel unwell, seek medical advice (show the label where possible).
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact:

Take off immediately all contaminated clothing and wash it before reuse. Wash skin with plenty of water.. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact:

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.

First-aid measures after ingestion:

Rinse mouth with water. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

Most important symptoms and effects, both acute and delayed:

Symptoms/injuries:

Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs (May cause damage to organs through prolonged or repeated exposure). May cause cancer.

Symptoms/injuries after inhalation:

May cause respiratory irritation.

Symptoms/injuries after skin contact:

May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact:

Causes eye irritation.

Symptoms/injuries after ingestion:

May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Gastrointestinal complaints. Nausea. Vomiting.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media:

Foam. Carbon dioxide. Dry chemical powder.

Special hazards arising from the substance or mixture:

Fire hazard:

Flammable liquid and vapor.

Explosion hazard:

May form flammable/explosive vapor-air mixture.

Reactivity:

On heating/burning: release of harmful/irritant gases/vapors e.g.: carbon monoxide - carbon dioxide

Advice for firefighters:

Firefighting instructions:

Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

Protection during firefighting:

Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

General measures:

No flames, No sparks. Eliminated all sources of ignition.

For non-emergency personnel:

Protective equipment:

Protective goggles. Gloves. Protective clothing.

Emergency procedures:

Evacuate unnecessary personnel. Avoid contact with skin, eyes, and clothing. Ventilate spillage area.

For emergency responders:

Protective equipment:

Equip cleanup crew with proper protection.

Emergency procedures:

Stop leak if safe to do so. Stop release. Ventilate area.

Environmental precautions:

Avoid release to the environment. Prevent entry to sewers and public waters.

Methods and material for containment and clean up:

For containment: Contain released substance, pump into suitable containers.
Methods for cleaning up: This material and its container must be disposed of in a safe way, and as per local legislation.

Reference to other sections:

No additional information available.

7. HANDLING AND STORAGE

Precautions for safe handling:

Precautions for safe handling: Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing.

Hygiene measures: Wash thoroughly after handling. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities:

Technical measures: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

Storage conditions: Keep container tightly closed.

Incompatible products: Oxidizing agent.

Incompatible materials: Sources of ignition.

Storage area: Meet the legal requirements. Store in a cool area. Store in a well-ventilated place.

Special rules on packaging: Keep only in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Ethylbenzene (100-41-4)		
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	20 ppm

Exposure controls:

Personal protective equipment: Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Safety glasses. Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state	Liquid
Appearance	Clear, amber liquid.
Odor	solvent odor
Odor threshold	No data available
pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	104 F Closed Cup
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	No data available
Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapor pressure	No data available
Relative density	No data available
Relative vapor density at 20 C	No data available
Specific gravity/density	0.857 g/ml
Solubility	Insoluble in water.
Log Pow	No data available
Log Kow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available

Viscosity No data available
 Viscosity, kinematic < 20 cSt
 Viscosity, dynamic No data available
 VOC content 70-80 %

10. STABILITY AND REACTIVITY

Reactivity:

On heating/burning: release of harmful/irritant gases/vapors e.g.: carbon monoxide - carbon dioxide.

Chemical stability:

No additional information available.

Possibility of hazardous reactions:

Refer to reactivity.

Conditions to avoid:

No additional information available.

Incompatible materials:

No additional information available.

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity: Not classified

Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg (Rat; Other; Experimental value)
LD50 dermal rabbit	15415 mg/kg (Rabbit; Literature Study; Other, 15432 mg/kg; Rabbit ; Experimental value)
LC50 inhalation rat (mg/l)	17.8 mg/l/4h (Rat; Literature Study)
LC50 inhalation rat (ppm)	4000 ppm/4h (Rat; Literature study)
ATE CLP (oral)	3500.000 mg/kg body weight
ATE CLP (dermal)	15415.000 mg/kg body weight
ATE CLP (gases)	4000.000 ppmV/4h
ATE CLP (vapors)	17.800 mg/l/4h
ATE CLP (dust, mist)	17.800 mg/l/4h
Xylene (1330-20-7)	
LC50 inhalation rat (ppm)	4550 ppmV/4h
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (dust, mist)	1.500 mg/l/4h
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Literature)

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Causes eye irritation.
Respiratory or skin sensitization: May cause an allergic skin reaction.
Germ cell mutagenicity: Not classified.
Carcinogenicity: Suspected of causing cancer.

Ethylbenzene (100-41-4)	
IARC group	2B - Possibly Carcinogenic to Humans
Xylene (1330-20-7)	
IARC group	3 - Not Classifiable
Cumene (98-82-8)	
IARC group	2B - Possibly Carcinogenic to Humans

Reproductive toxicity: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure): May cause respiratory irritation.
Specific target organ toxicity (repeated exposure): Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation: May cause respiratory irritation.

Symptoms/injuries after skin contact:	May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.
Symptoms/injuries after eye contact:	Causes eye irritation.
Symptoms/injuries after ingestion:	May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Gastrointestinal complaints. Nausea. Vomiting.

12. ECOLOGICAL INFORMATION

Toxicity:

Ethylbenzene (100-41-4)	
LC50 fish 1	9.09 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	77 mg/l (24 h; Daphnia magna)
EC50 other aquatic organisms 1	48 mg/l (72 h; Scenedesmus subspicatus)
LC50 fish 2	4.2 mg/l 96h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	75 mg/l (48 h; Daphnia magna)
TLM fish 1	29 ppm (96 h; Lepomis macrochirus; Hard water)
TLM fish 2	42.3 mg/l (96 h; Pimephales promelas)
TLM other aquatic organisms 1	10-100, 96 h
Threshold limit algae 1	> 160 mg/l (192 h; Scenedesmus quadricauda; Toxicity test)
Threshold limit algae 2	33 mg/l (192 h; Microcystis aeruginosa; Toxicity test)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
LC50 fish 1	> 100 mg/l (Pisces)
EC50 Daphnia 1	> 100 mg/l (Invertebrata)
Threshold limit algae 1	> 100 mg/l (Algae)

Persistence and degradability:

Ethylbenzene (100-41-4)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	1.44 g O ₂ /g substance (20d.)
Chemical oxygen demand (COD)	2.1 g O ₂ /g substance
ThOD	3.14 g O ₂ /g substance
BOD (% of ThOD)	(20 day(s)) 45.4
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
Persistence and degradability	Readily biodegradable in water. Adsorbs into the soil.

Bioaccumulative potential:

Ethylbenzene (100-41-4)	
BCF fish 1	1 (6 weeks; Oncorhynchus kisutch)
BCF fish 2	15-79 (Carassius auratus)
BCF other aquatic organisms 1	4.68 (Lamellibranchiata)
Log Pow	3.15 (Experimental value; 3.6; Experimental value; EU Method A.8: Partition Coefficient; 20C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
Log Pow	6-8.2
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5)

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

14. TRANSPORT INFORMATION

Department of Transportation (DOT)

Additional information:

Other information: When transported by ground in non-bulk containers, this product utilizes the exception found under 49 CFR 173.150.

ADR:

No additional information available.

Transport by sea:

No additional information available.

Air Transport:

No additional information available.

15. REGULATORY INFORMATION

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Ethylbenzene	CAS No 100-41-4	1-5
Xylene	CAS No 1330-20-7	10-30
Cumene	CAS No 98-82-8	0.1-1

Ethylbenzene (100-41-4)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
Xylene (1330-20-7)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb
Cumene (98-82-8)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the State of California to cause cancer and /or reproductive toxicity.

16. OTHER INFORMATION

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation; vapor)	Acute toxicity (inhalation; vapor) Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H320	Causes eye irritation
H332	Harmful if inhaled

H335	May cause respiratory irritation
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure

NFPA health hazard: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water

Disclaimer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendee or users assume all risks associated with the use of this material.