

# TRANSPO INDUSTRIES, INC.

Safety Data Sheet  
June 25, 2018

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** Sealate® (T70 MX30) Vertical

**MANUFACTURER:** Transpo Industries, Inc.  
**DIVISION:** 20 Jones Street  
**ADDRESS:** New Rochelle, NY 10801

**EMERGENCY PHONE:** 1-800-424-9300 (Chemtrec)  
**CHEMTREC PHONE:** 1-800-424-9300  
**OTHER CALLS:** (914) 636-1000  
**FAX PHONE:** (914) 636-1282

**CHEMICAL NAME:** High Molecular Weight Methacrylate (HMWM)  
**CHEMICAL FAMILY:** Methacrylate Ester

**PRODUCT USE:** Sealer  
**PREPARED BY:** Transpo Industries, Inc.

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## SECTION 2: HAZARDS IDENTIFICATION

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### WARNING!



### POTENTIAL HEALTH EFFECTS

**EYES:** Although no appropriate human or animal health effects data are known to exist, this material is expected to cause slight eye irritation. May cause minor eye irritation. Symptoms may include excessive tearing, blinking and redness.

**SKIN ABSORPTION:** Although no appropriate human or animal health effects data are known to exist, this material is not expected to be a health hazard by skin absorption.

**SKIN IRRITATION:** Although no appropriate human or animal health effects data are known to exist, this material is expected to be a slight skin irritant. May cause minor skin irritation with symptoms including a slight localized redness or rash and swelling. Although no appropriate human or animal health effects data is known to exist, this material may cause an allergic skin reaction (sensitization) in susceptible individuals upon repeated exposure.

**INGESTION:** Although no appropriate human or animal health effects data are known to exist, this material is expected to be a slight ingestion hazard.

**INHALATION:** No significant signs or symptoms indicative of any adverse health hazard are expected to occur at standard conditions due to the low volatility of this material. However, aerosols, or vapors which may be generated at elevated processing temperatures, may cause respiratory tract irritation. Symptoms of irritation may include coughing, mucous production and shortness of breath. May also have potential to cause headaches, nausea and dizziness.

### CHRONIC HEALTH EFFECTS INFORMATION

No chronic health effects information is available for this product. However, this product contains trace amounts of 1,3-butadiene which has been classified as probably carcinogenic to humans by the International Agency for Research on Cancer (IARC). In addition, OSHA has recently issued a substance specific regulation for 1,3-butadiene. 1,3-butadiene is not expected to present a health hazard if this product is used as supplied at room temperature; however, vapors generated at elevated processing temperatures may contain very small concentrations of 1,3-butadiene. Industrial hygiene monitoring should be performed to rule out exposure to this substance, and appropriate respiratory protection should be worn during these conditions.

This material also contains trace amounts of 4-vinylcyclohexene (VCH). High concentrations of VCH (271-677 part per million) have caused eye and nose irritation, headaches, white blood cell reduction, and impaired carbohydrate metabolism in some workers. Animal tests have shown white blood cell reduction and effects in blood circulation upon repeated inhalation exposures, and kidney toxicity and ovarian effects at an oral dose (repeated exposure) that produced many animal deaths. The National Toxicology Program (NTP) conducted a two year animal study on the oral effects of VCH which resulted in numerous animal deaths and an increase in ovarian tumors in female mice. It is believed that mice have an increase sensitivity to VCH-induced ovarian effects as demonstrated by their ability to produce a significantly higher rate of an ovotoxic metabolite. IARC lists VCH as possibly

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## SECTION 2: HAZARDS IDENTIFICATION (continued)

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carcinogenic to humans. The American Conference of Governmental Industrial Hygienists (ACGIH) classifies VCH as an animal carcinogen, causing cancer in test animals as relatively high doses, and by routes or mechanisms not considered relevant to worker exposure (i.e., ingestion is not a primary route of exposure for workers in an industrial setting). The ACGIH does list an exposure limit (TLV-TWA) of 0.1 ppm for VCH. Vapors generated at elevated processing temperatures may contain concentrations of VCH near the ACGIH TLV. VCH produced no genetic changes in tests using bacterial cells.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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<u>INGREDIENT</u>	<u>CAS NO</u>	<u>% WT</u>
2-phenozyethyl methacrylate esters	10595-06-9	30-40
2-ethylhexylacrylate	103-11-7	10-15
Isbonyl methacrylate	7534-94-3	15-25
Trimethylolpropane tremethacrylate ester	3290-92-4	5-10
2-oxepana homo polymer	11048-4-05-9	5-10
Hydroxyterminated polybutadiene	N/A	10-20
Silicon dioxide, chemically prepared	112945-52-5	01-10

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## SECTION 4: FIRST AID MEASURES

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**EYES:** In case of eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention if pain, blinking, tears or redness persists.

**SKIN:** Remove contaminated clothing as needed. Wash skin thoroughly with mild soap/water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first.

**INGESTION:** If large quantity swallowed, give lukewarm water (pint) if victim completely conscious/alert. Do not induce vomiting/risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.

**INHALATION:** If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Treat symptomatically.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**FLASH POINT:** >190°

**AUTOIGNITION TEMPERATURE:** N/A

### NFPA HAZARD CLASSIFICATION

**HEALTH:** 2                      **FLAMMABILITY:** 1                      **REACTIVITY:** 2  
**OTHER:**

### HMIS HAZARD CLASSIFICATION

**HEALTH:** 2                      **FLAMMABILITY:** 1                      **REACTIVITY:** 2  
**PROTECTION:** D

**EXTINGUISHING MEDIA:** Dry chemical, Co2, Water spray, Foam, Water fog.

**SPECIAL FIRE FIGHTING PROCEDURES:** Do not enter fire area without proper protection. See below for decomposition products possible. Fight fire from safe distance/protected location. Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Water may be ineffective in firefighting due to low solubility. Use water spray/fog for cooling. Pressure relief system may plug with solids, increasing risk of overpressure. Notify authorities if liquid enters sewer/public waters.

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## SECTION 5: FIRE-FIGHTING MEASURES (continued)

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**UNUSUAL FIRE AND EXPLOSION HAZARDS:** High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during runaway polymerization.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** Spilled or released material may polymerize and release heat/gases. Extinguish all ignition sources and ventilate area. Wear protective equipment during clean up. Dike and recover large spill. Soak up small spill with inert solids (such as vermiculite, clay) and sweep/shovel into vented disposal container. Wash spill area with a strong detergent and water solution; rinse with water but minimize water use during clean-up. For spills on water, contain, minimize dispersion and collect. Dispose/report per regulatory requirements.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Wear appropriate protective equipment when handling this material. Most acrylic monomers have low viscosities; hence, pouring, material transfer and processing of these materials do not necessitate heating. Viscous monomers may require heating to facilitate handling. To facilitate product transfer from original container, product may be heated to 60°C/140°F for not more than 24 hours. Do NOT use localized heat sources such as band heaters to heat/melt product. Do NOT use steam. Hot boxes or hot rooms are recommended for heating/melting material. The hot box or hot room should be set at a maximum temperature of 60°C/140°F. Do not overheat—this may compromise product quality and/or result in an uncontrolled hazardous polymerization. If product freezes, heat as indicated above and mix gently to redistribute the inhibitor. Product should be consumed in its entirety after heating/melting—avoid multiple “re-heats” which may affect product quality or result in product degradation. Product is packaged with inhibitor(s). Unless inhibited, product can polymerize, raising temperature and pressure possibly rupturing container. Check inhibitor content periodically, adding to bulk material is needed. In addition, the product’s inhibitor(s) require the presence of dissolved oxygen. Maintain, at a minimum, the original headspace in the product container and do not blanket or mix with oxygen-free gas as it renders inhibitor ineffective. Ensure air space (oxygen) is present during product heating/melting.

Store product indoors at temperatures greater than product’s freezing point (or greater than 0°C/32°F if no freezing point available) and below 38°C/100°F. Avoid prolonged (longer than shelf-life) storage temperatures above 38°C/100°F. Store in tightly closed containers in a properly vented storage area away from: heat, sparks, open flame, strong oxidizers, radiation, and other initiators. Prevent contamination by foreign materials. Prevent moisture contact. Use only non-sparking tools and limit storage time. Unless specified elsewhere, shelf-life is 12 months from receipt.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** If handling results in aerosol or vapor generation, local exhaust ventilation is recommended.

**RESPIRATORY PROTECTION:** If this material is handled at elevated temperature or under mist forming conditions, NIOSH/MSHA approved respiratory protection equipment should be used.

**EYE PROTECTION:** Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. Contact lenses should be not worn.

**SKIN PROTECTION:** Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. This equipment should be cleaned thoroughly after each use.

**WORK HYGIENIC PRACTICES:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**OTHER WORK PRACTICES:** Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Shower after work using plenty of soap and water.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Clear amber liquid

**ODOR:** Low pleasant

**BOILING POINT:** GT 266°F

**MELTING POINT:** N/A

**FREEZING POINT:** N/A

**VAPOR PRESSURE (mmHg):** 0.01

**DENSITY:** 8.4 +/- .1

**SPECIFIC GRAVITY (H2O = 1):** 0.98 +/- 0.01

**pH:** 5.5

**EVAPORATION RATE:** N/A

**SOLUBILITY IN WATER:** Insoluble

**PERCENT VOLATILE:** Negligible

**VISCOSITY:** 10-25 cps @ 25°C

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## SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** Stable

**CONDITIONS TO AVOID (STABILITY):** High temperatures, localized heat sources (i.e., drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

**HAZARDOUS POLYMERIZATION:** May occur

**CONDITIONS TO AVOID (POLYMERIZATION):** High temperatures, localized heat sources (i.e., drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### Acute Toxicity

#### Ingestion

LD50, Rat 4,435-6,400 mg/kg

#### Skin Absorption

LD50, Rabbit 7,520-16,000 mg/kg

#### Sensitization

#### Skin

Has caused allergic skin reactions in humans. Has caused allergic skin reactions when tested in guinea pigs.

#### Repeated Dose Toxicity

In animals, effects have been reported on the following organs: Kidney. Respiratory Tract.

#### Chronic Toxicity and Carcinogenicity

Has caused tumors in skin painting tests in animals. Positive findings are believed to be secondary to chronic irritation/tissue injury.

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## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

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### Developmental Toxicity

Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.

### Reproductive Toxicity

In animal studies, did not interfere with reproduction.

### Genetic Toxicology

In vitro genetic toxicity studies were predominantly negative. Animal genetic toxicity studies were negative.

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## SECTION 12: ECOLOGICAL INFORMATION

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### CHEMICAL FATE

#### Data for Component: 2-ethylhexyl acrylate

#### Movement & Partitioning

Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Potential for mobility in soil is medium (Koc between 150 and 500).

Henry's Law Constant (H): 4.32E-4 atm\*m3/mole;25°C Measured

Partition coefficient, n-octanol/water (log Pow): 3.67-4.64 Measured

Partition coefficient, soil organic carbon/water (Koc): 430 Estimated

#### Persistence and Degradability

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

Indirect Photodegradation with OH Radicals

Rate Constant 2.01E-11 cm3/s	Atmospheric Half-life 6.4 h	Method Estimated	
OECD Biodegradation Tests:	Exposure Time	Method	
Biodegradation >90%	14 d	OECD 301C Test	
75%		OECD 301C Test	
Biological oxygen demand (BOD):	BOD 10	BOD 20	BOD 28
BOD 5 17-27%	19-52%	19-58%	
Theoretical Oxygen Demand: 2.60 mg/mg			

### Ecotoxicity

#### Data for Component: 2-ethylhexyl acrylate

Material is moderately toxic to aquatic organisms on an acute basis 9LC50/EC50 between 1 and 10 mg/L in most sensitive species tested).

#### Fish Acute & Prolonged Toxicity

LC50, fathead minnow (*Pimephales promelas*), static, 96 h: 15-20 mg/l

LC50, rainbow trout (*Oncorhynchus mykiss*), static renewal, 96 h: 2.67 mg/l

#### Aquatic Invertebrate Acute Toxicity

LC50, water flea *Daphnia magna*, 48 h: 17.45 mg/l

#### Aquatic Plant Toxicity

EC50, alga *Scenedesmus* sp., biomass growth inhibition, 96 h: 47 mg/l

#### Toxicity to Micro-organisms

EC50; bacteria, respiration inhibition, 0.5 h:>10,000 mg/l

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Non-contaminated, properly inhibited material is not a RCRA hazardous waste. However, contaminated material/soil/water may be RCRA/OSHA hazardous waste due to potential for internal heat generation (see 40 CFR 261 and 29 CFR 1910). It is the responsibility of the generator to determine at the time of disposal whether the material meets the criteria of a hazardous waste. Comply with all applicable federal, state and local regulations. Use registered transporters. Disposal options include land filling solids at permitted sites; fuel blending or incinerating liquids. Assure emissions comply with applicable regulations. Dilute aqueous waste may biodegrade; avoid overloading/poisoning plant biomass. Assure effluent complies with applicable regulations.

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Resin Compounds, NMFC#46030  
HAZARD CLASS: Not Hazardous  
ID NUMBER: N/A  
PACKING GROUP: N/A  
LABEL STATEMENT: None

### WATER TRANSPORTATION

PROPER SHIPPING NAME: Resin Compounds, NMFC#46030  
HAZARD CLASS: Not Hazardous  
ID NUMBER: N/A  
PACKING GROUP: N/A  
LABEL STATEMENTS: None

### AIR TRANSPORTATION

PROPER SHIPPING NAME: Resin Compounds, NMFC#46030  
HAZARD CLASS: Not Hazardous  
ID NUMBER: N/A  
PACKING GROUP: N/A  
LABEL STATEMENTS: None

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## SECTION 15: REGULATORY INFORMATION

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### TSCA STATUS

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

### CALIFORNIA PROPOSITION 65

California Proposition 65 Information: this product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

### INTERNATIONAL INVENTORY STATUS

Australia (AICS): included on inventory  
Canada (DSL): included on inventory  
China (IECSC): included on inventory  
Europe (EINECS): included on inventory  
Japan (ENCS): included on inventory  
Korea (ECL): included on inventory  
Philippines (PICCS): included on inventory

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## SECTION 16: OTHER INFORMATION

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HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	1
PERSONAL PROTECTION	B

	Health	Flammability	Physical Hazard
HMIS-Ratings	2	1	1
NFPA-Ratings	2	1	1

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## SECTION 16: OTHER INFORMATION (continued)

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### HMIS Hazard Ratings

4 = severe

3 = serious

2 = moderate

1 = slight

0 = minimal

N = no rating for powders

\* = chronic health hazard

### NFPA Hazard Ratings

4 = extreme

3 = high

2 = moderate

1 = slight

0 = insignificant

N = no rating for powders

The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution.

### PREPARATION INFORMATION:

June 2018

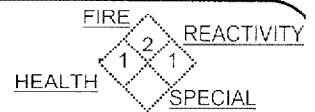
This SDS is on a three year review cycle. If the date on this sheet is older than three years please contact Transpo Industries, Inc., for an updated SDS.

### DISCLAIMER:

All information appearing herein is based on manufacturer and/or recognized technical sources. While the information is believed accurate Transpo Industries, Inc. makes no representations as to the accuracy or sufficiency of the information.

**HAZARD RATING**

4 = EXTREME  
3 = HIGH  
2 = MODERATE  
1 = SLIGHT  
0 = INSIGNIFICANT  
\* = CHRONIC HEALTH HAZARD - SEE SECTION 4



**MATERIAL SAFETY DATA SHEET**

**Cobalt Promoter**

**1. IDENTIFICATION & PHYSICAL DATA**

PRODUCT NAME: Cobalt Promoter

VISCOSITY: 725 ± 50 cps

Chemical Family: Metal Carboxylate

BOILING POINT: 315-385F

CHEMICAL NAME &  
SYNONYMS:

VAPOR DENSITY: >1

SOLUBILITY IN WATER: slight

FORMULA: N/A

PERCENT VOLATILE: 40% ± 2

SPECIFIC GRAVITY: 1.01 ± 0.01 Water = 1

APPEARANCE &

ODOR: Dark blue to purple liquid, oily odor

VAPOR PRESSURE: 2.6 mmHg

EVAPORATION RATE: <1 Butyl Acetate = 1

MELTING OR FREEZING POINT: N/E

**2. HAZARDOUS INGREDIENTS**

NAME	CAS#	WT. %	TWA /STEL (OSHA-ACGIH-TRANSPON)
Co 2-Ethylhexanoate	136-52-7	65	0.05 mg/m3 PEL-TWA OSHA and ACGIH
Mineral Spirits	8052-41-3	35	100 ppm OSHA 525 mg/m3 ACGIH

--- NOT ESTABLISHED

\*\*\* THE SPECIFIC CHEMICAL IDENTITY AND/OR WEIGHT IS BEING WITHHELD AS A TRADE SECRET

**3. FIRE AND EXPLOSION DATA**

FLASHPOINT: 104F min.

AUTO IGNITION TEMP.: N/E

LOWER EXPLOSION LIMIT: N/E

UPPER EXPLOSION LIMIT: N/E

EXTINGUISHING MEDIA:

Foam, alcohol foam, CO2, dry chemical, water fog

SPECIAL FIRE FIGHTING PROCEDURES:

Self-contained breathing apparatus with a full face piece operated in pressure demand other positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point.

**4. REACTIVITY DATA**

STABILITY: Stable

HAZARDOUS POLYMERIZATION: will not occur

CONDITIONS TO AVOID:

Excessive heat or contact with sparks or flames

MATERIALS TO AVOID(INCOMPATIBILITY):

Contact with strong oxidizing agents (e.g. nitric acid, permanganates, organic peroxides etc.)

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide, various hydrocarbons

This information contained herein based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as

stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk on his use of the material.



**5. HEALTH HAZARD DATA****EMERGENCY AND FIRST AID PROCEDURES:**

**EYE CONTACT:** Flush with large amounts of water, lifting upper and lower lid occasionally. Get medical attention.

**SKIN CONTACT:** Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Wash contaminated clothing before re-use.

**INGESTION:** Do not induce vomiting. Keep person warm, quiet and get medical attention. Aspiration of the material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal.

**INHALATION:** If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, use artificial respiration. Keep person warm and quiet. Get medical attention.

**EFFECTS OF OVEREXPOSURE AND TOXICITY INFORMATION:**

**INGESTION:** Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of the material into the lungs can cause chemical pneumonitis which can be fatal.

**INHALATION:** Can cause nasal and respiratory irritation, dizziness, fatigue, headache, unconsciousness and even asphyxiation.

**SKIN CONTACT:**

Prolonged or repeated contact can cause moderate irritation, defatting or dermatitis.

**SKIN ABSORPTION:****EYE CONTACT:**

Can cause severe irritation, redness, tearing and blurred vision.

**CHRONIC EFFECTS OF OVEREXPOSURE:**

Carcinogenicity- NTP=no IARC=yes OSHA=no

IARC has classified Cobalt and Cobalt compounds as Group 2B carcinogens. Group 2B carcinogens are possibly carcinogenic to humans. See IARC Monograph, Volume 52.

**6. SPILL OR LEAK PROCEDURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Large spill: Eliminate all ignition sources (flares, flames, including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth or floor absorbent and shoveled into containers. Prevent run-off to sewers, streams or other bodies of water.

**WASTE DISPOSAL METHOD:**

Waste product may have a flash point below 140F and must be treated as a Hazardous (RCRA IGNITABLE) waste. Dispose of in accordance with all Federal, state and local regulations. Never use welding or cutting torch on or near drum (even empty) because product (even residue) can ignite explosively.

**7. SPECIAL PROTECTION INFORMATION****RESPIRATORY PROTECTION:**

Use OSHA, NIOSH/MSHA approved respirators

**VENTILATION:**

Mechanical or local to maintain levels below TLV's

**PROTECTIVE GLOVES:**

Resistant (e.g. neoprene)

**EYE PROTECTION:**

Splash proof goggles per OSHA or equal

**OTHER PROTECTIVE EQUIPMENT:**

To prevent repeated or prolonged skin contact, wear impervious clothing and boots

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**8. SPECIAL PRECAUTIONS**

DO NOT MIX COBALT WITH CHP (CUMENE HYDROPEROXIDE) INITIATOR. VIOLENT REACTION WILL OCCUR.

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**9. ADDITIONAL RIGHT TO KNOW COMPOSITION INFORMATION**

This information is provided in conjunction with the ingredient information in Section 2 to meet various regulatory composition requirements.

<u>INGREDIENT</u>	<u>CAS#</u>	<u>LISTS</u>
Cobalt Compounds	N/A	

PA1= Pennsylvania Hazardous Substance List    PA2= Pennsylvania Special Hazardous Substance List    MA1= Massachusetts Hazardous Substance List  
MA2= Massachusetts Extrordinary Hazardous Substance List    NJ1= New Jersey Workplace Hazardous Substances L  
NJ2= New Jersey Special Health Hazards List    CN= Canadian Ingredient Disclosure List

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**10. SARA TITLE III INFORMATION**

This product contains the following chemicals subject to the reporting requirements of Section 313 of The Emergency Planning and Commu Response Act of 1986 and of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material

<u>COMPONENT</u>	<u>CAS#</u>	<u>WEIGHT%</u>
Cobalt Compounds	N/A	65

SARA Section 311 and 312 hazard classification(s) for this product are:

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**11. RCRA INFORMATION**

Since this product is not sold as a waste, we have not tested it as a waste. Based on our knowledge of the product, its raw materials and processes employed during its manufacture, we believe it is unlikely that this product is a hazardous waste for Federal RCRA purposes. We recommend that you carry out your own tests and evaluations prior to discarding any materials.

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**12. CERCLA INFORMATION**

N/A

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**13. CALIFORNIA PROPOSITION 65 INFORMATION**

N/A

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**14. TRANSPORTATION INFORMATION**

**D.O.T. SHIPPING NAME:** Driers, Paint or Varnish Liquid N.O.S.

**D.O.T. HAZARD CLASS:** Combustible Liquid - See 49 CFR 173.118(a)

**D.O.T. LABEL(S):** Subject to HMR-181 only in 110 gallon container or larger

**D.O.T. UN/NA NUMBER:** UN 1168

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**15. OTHER INFORMATION**

Chemical is on TSCA Inventory.



Polymer Concrete Products  
A TRANSPRO INDUSTRIES COMPANY

**Transpro Industries, Inc.**

20 JONES STREET, NEW ROCHELLE, NY 10810 (914) 636-1000

**FOR CHEMICAL EMERGENCY**

SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT: CALL CHEMTREC - DAY OR NIGHT

**800-424-9300**

**HAZARD RATING**

- 4 = EXTREME
- 3 = HIGH
- 2 = MODERATE
- 1 = SLIGHT
- 0 = INSIGNIFICANT
- \* = CHRONIC HEALTH HAZARD - SEE SECTION 4



**MATERIAL SAFETY DATA SHEET**

**Cumene Hydroperoxide**

**1. IDENTIFICATION & PHYSICAL DATA**

**PRODUCT NAME:** Cumene Hydroperoxide

**Chemical Family:** Organic Peroxide

**CHEMICAL NAME & SYNONYMS:**

Cumene Hydroperoxide

**FORMULA:** C9H12O2

**APPEARANCE &**

**ODOR:** Clear, yellow liquid, sharp aromatic odor

**VISCOSITY:**

**BOILING POINT:** 306F

**VAPOR DENSITY:** 5.4

**SOLUBILITY IN WATER:** Slight

**PERCENT VOLATILE:** 100

**SPECIFIC GRAVITY:** 1.03 Water = 1

**VAPOR PRESSURE:** 13.9 mm @ 20C mmHg

**EVAPORATION RATE:** <1.00 Butyl Acetate = 1

**MELTING OR FREEZING POINT:** N/E

**2. HAZARDOUS INGREDIENTS**

<u>NAME</u>	<u>CAS#</u>	<u>WT. %</u>	<u>TWA /STEL (OSHA-ACGIH-TRANSPRO)</u>
Cumene Hydroperoxide	80-15-9	88 min.	
Cumene	98-82-8	balance	TLV = 50 ppm
Cumyl alcohol		6	
Acetophenone		1-2	

--- NOT ESTABLISHED

\*\*\* THE SPECIFIC CHEMICAL IDENTITY AND/OR WEIGHT IS BEING WITHHELD AS A TRADE SECRET

**3. FIRE AND EXPLOSION DATA**

**FLASHPOINT:** 177F

**AUTO IGNITION TEMP.:** N/A

**LOWER EXPLOSION LIMIT:** .9%

**UPPER EXPLOSION LIMIT:** N/A

**EXTINGUISHING MEDIA:**

Water fog, dry chemical, foam or carbon dioxide.  
If large amount is involved, evacuate area and fight fire from safe distance.

**SPECIAL FIRE FIGHTING PROCEDURES:**

Cool surrounding material with water. Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Contamination, temperature, can decompose with force if confined during exposure to fire. Never use welding or cutting torch on or near drum because product can ignite explosively.

**4. REACTIVITY DATA**

**STABILITY:** Unstable

**HAZARDOUS POLYMERIZATION:** Cannot occur

**CONDITIONS TO AVOID:**

Heat, flame, sparks, ignition sources, contamination. Store below 100F to maintain active oxygen content

**MATERIALS TO AVOID(INCOMPATIBILITY):**

Strong acids, strong oxidizers, strong alkalis, transition metal-salts, reducing agents and vermiculite and heat.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Decomposition products are flammable

This information contained herein based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as

stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk on his use of the material.

**5. HEALTH HAZARD DATA****EMERGENCY AND FIRST AID PROCEDURES:**

**EYE CONTACT:** Immediately flush with plenty of water for at least 15 minutes lifting upper and lower lids occasionally. Get medical attention. Causes severe damage.

**SKIN CONTACT:** Flush with soap and water. Remove contaminated clothing and wash before re-use. Get medical attention. Causes severe irritation, burns, possible sensitization.

**INGESTION:** Do NOT induce vomiting. Keep person warm and quiet. Get emergency medical attention for lavage.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention. Keep person warm and quiet.

**EFFECTS OF OVEREXPOSURE AND TOXICITY INFORMATION:**

**INGESTION:** gastric irritant

**INHALATION:** Narcotic effect

**SKIN CONTACT:**  
Severe burns possible

**SKIN ABSORPTION:**

**EYE CONTACT:**  
Severe

**CHRONIC EFFECTS OF OVEREXPOSURE:**  
skin sensitization possible

**6. SPILL OR LEAK PROCEDURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Absorb with soda ash. Sweep or scoop up using non-sparking tools and dispose of immediately. **DO NOT USE VERMICULITE.**

**WASTE DISPOSAL METHOD:**  
Dispose of in accordance with Federal, state and local regulations.

**7. SPECIAL PROTECTION INFORMATION****RESPIRATORY PROTECTION:**

Organic vapor canister or cartridge. Use only NIOSH/MESA approved equipment.

**VENTILATION:**

Use with adequate ventilation, local exhaust.

**PROTECTIVE GLOVES:**

Neoprene, polyvinyl chloride, natural rubber, butyl rubber

**EYE PROTECTION:**

Face shield, goggles

**OTHER PROTECTIVE EQUIPMENT:**

Eyewash station and emergency shower

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**8. SPECIAL PRECAUTIONS**

Do not mix CHP directly with Cobalt. Violent reaction will occur.

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**9. ADDITIONAL RIGHT TO KNOW COMPOSITION INFORMATION**

This information is provided in conjunction with the ingredient information in Section 2 to meet various regulatory composition requirements.

<b>INGREDIENT</b>	<b>CAS#</b>	<b>LISTS</b>
Cumene	98-82-8	

PA1= Pennsylvania Hazardous Substance List    PA2= Pennsylvania Special Hazardous Substance List    MA1= Massachusetts Hazardous Substance L  
MA2= Massachusetts Extrordinary Hazardous Substance List    NJ1= New Jersey Workplace Hazardous Substances List  
NJ2= New Jersey Special Health Hazards List    CN= Canadian Ingredient Disclosure List

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**10. SARA TITLE III INFORMATION**

This product contains the following chemicals subject to the reporting requirements of Section 313 of The Emergency Planning and Communi Response Act of 1986 and of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

<u>COMPONENT</u>	<u>CAS#</u>	<u>WEIGHT%</u>
Cumene	98-82-8	appox. 5-7%

SARA Section 311 and 312 hazard classification(s) for this product are:

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**11. RCRA INFORMATION**

Since this product is not sold as a waste, we have not tested it as a waste. Based on our knowledge of the product, its raw materials and processes employed during its manufacture, we believe it is unlikely that this product is a hazardous waste for Federal RCRA purposes. We recommend that you carry out your own tests and evaluations prior to discarding any materials.

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**12. CERCLA INFORMATION**

N/A

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**13. CALIFORNIA PROPOSITION 65 INFORMATION**

N/A

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**14. TRANSPORTATION INFORMATION**

**D.O.T. SHIPPING NAME:** Organic Peroxide, TYPE F, Liquid (Cumene Hydroperoxide)

**D.O.T. HAZARD CLASS:** 5.2

**D.O.T. LABEL(S):** Organic Peroxide

**D.O.T. UN/NA NUMBER:** UN 3109

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**15. OTHER INFORMATION**

Chemical is listed on TSCA inventory.

**DATE ISSUED**

2/7/1994

**Cumene Hydroperoxide**

AMD2

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