



Polymer Concrete Products
A TRANSPRO INDUSTRIES COMPANY

Transpro Industries, Inc.

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

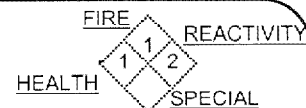
FOR CHEMICAL EMERGENCY

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

Transpro Sealate T70

1. IDENTIFICATION & PHYSICAL DATA

PRODUCT NAME: Transpro Sealate T70

VISCOSITY: 10-25 cps @ 25C

Chemical Family: Methacrylate Ester

BOILING POINT: N/A

CHEMICAL NAME & SYNONYMS:

High Molecular Weight Methacrylate (HMWM)

VAPOR DENSITY: N/A

FORMULA: N/A

SOLUBILITY IN WATER: Insoluble

PERCENT VOLATILE: <25%

SPECIFIC GRAVITY: 1.06 ± 0.010 Water = 1

APPEARANCE & ODOR:

Low, pleasant odor, clear amber liquid

VAPOR PRESSURE: N/A mmHg

EVAPORATION RATE: N/A Butyl Acetate = 1

MELTING OR FREEZING POINT: N/A

2. HAZARDOUS INGREDIENTS

<u>NAME</u>	<u>CAS#</u>	<u>WT. %</u>	<u>TWA /STEL (OSHA-ACGIH-TRANSPRO)</u>
Reactive Monomer Blend	None assigned	100	

--- NOT ESTABLISHED

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

3. FIRE AND EXPLOSION DATA

FLASHPOINT: >200°F

AUTO IGNITION TEMP.: Not known

LOWER EXPLOSION LIMIT: Not Known

UPPER EXPLOSION LIMIT: Not Known

EXTINGUISHING MEDIA:

CO2, Dry Chemical, Water Fog

SPECIAL FIRE FIGHTING PROCEDURES:

None

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None

4. REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: May occur

CONDITIONS TO AVOID:

Heat, contact with incompatible materials

MATERIALS TO AVOID(INCOMPATABILITY):

Metal salts, peroxides, strong oxidizing or reducing agents

HAZARDOUS DECOMPOSITION PRODUCTS:

Acidic vapors may be produced upon combustion

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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 eyes with large amounts of water and call a physician.

SKIN CONTACT: Wash promptly with soap and water. Wash contaminated clothing.

INGESTION: If swallowed, call a physician or poison control center. Drink one or two glasses of water. Do not induce vomiting or give anything by mouth to an unconscious person.

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.

EFFECTS OF OVEREXPOSURE AND TOXICITY INFORMATION:

INGESTION: Unlikely, however if ingested, obtain emergency medical attention.

INHALATION: No significant signs or symptoms indicative of any adverse health hazard are expected to occur at standard conditions due to low volatility of this material.

SKIN CONTACT:

Possible skin irritation; may sensitize skin.

SKIN ABSORPTION:

No significant signs or symptoms indicative of any health hazard are expected to occur as a result of skin absorption exposure.

EYE CONTACT:

Possible eye irritation, including burning sensation, tearing, redness or swelling.

CHRONIC EFFECTS OF OVEREXPOSURE:

Prolonged exposure may cause headaches or nausea. NOTE: 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.

6. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Absorb with inert material such as sand.

WASTE DISPOSAL METHOD:

Incineration recommended. Dispose of in accordance with Federal, state and local regulations.

7. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Use MESA/NIOSH approved if exposure limits are exceeded

VENTILATION:

Local exhaust if used in enclosed areas

PROTECTIVE GLOVES:

Required; rubber or neoprene

EYE PROTECTION:

Wear chemical splash goggles and/or face shield to avoid contact with eyes. Contact lenses should not be worn.

OTHER PROTECTIVE EQUIPMENT:

Eye wash facility should be available

8. SPECIAL PRECAUTIONS

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.

INGREDIENT	CAS#	LISTS
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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 List
NJ2= New Jersey Special Health Hazards List CN= Canadian Ingredient Disclosure List

10. SARA TITLE III INFORMATION

This product contains the following chemicals subject to the reporting requirements of Section 313 of The Emergency Planning and Community 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>
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SARA Section 311 and 312 hazard classification(s) for this product are:
N/A

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.

12. CERCLA INFORMATION

Under EPA - CERCLA release to air, land or water which exceed the reportable quantity must be reported to the National Response Center (800-424-8802).

13. CALIFORNIA PROPOSITION 65 INFORMATION

N/A

14. TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Resin Compounds, NMFC #46030

D.O.T. HAZARD CLASS: None

D.O.T. LABEL(S): None

D.O.T. UN/NA NUMBER: N/A

15. OTHER INFORMATION

Keep out of reach of children. Use only as directed by supplier. Drum disposal: do not cut with torch; do not reuse drum. Contact supplier for specific recommendations. STORE BELOW 90°F. STORE IN COOL, DARK AREA. All compounds are listed with the TSCA inventory requirements.

DATE ISSUED

2/3/1994

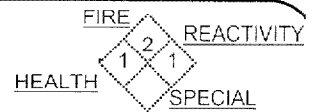
Transpo Sealate T70

AMD2

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HAZARD RATING

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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

VAPOR DENSITY: >1

CHEMICAL NAME &
SYNONYMS:

SOLUBILITY IN WATER: slight

PERCENT VOLATILE: 40% ± 2

FORMULA: N/A

SPECIFIC GRAVITY: 1.01 ± 0.01

Water = 1

APPEARANCE &

VAPOR PRESSURE: 2.6

mmHg

ODOR: Dark blue to purple liquid, oily odor

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

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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

8. SPECIAL PRECAUTIONS

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

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	

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10. SARA TITLE III INFORMATION

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<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:

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.

12. CERCLA INFORMATION

N/A

13. CALIFORNIA PROPOSITION 65 INFORMATION

N/A

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

15. OTHER INFORMATION

Chemical is on TSCA Inventory.



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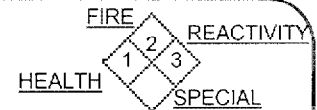
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MATERIAL SAFETY DATA SHEET

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

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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 cannister 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

8. SPECIAL PRECAUTIONS

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

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.

INGREDIENT	CAS#	LISTS
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
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COMPONENT	CAS#	WEIGHT%
Cumene	98-82-8	appox. 5-7%

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

11. RCRA INFORMATION

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12. CERCLA INFORMATION

N/A

13. CALIFORNIA PROPOSITION 65 INFORMATION

N/A

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

15. OTHER INFORMATION

Chemical is listed on TSCA inventory.

DATE ISSUED

2/7/1994

Cumene Hydroperoxide

AMD2

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