

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY INFORMATION

Product Identification

- Trade Name: **Cure & Seal 250**
- Product Use: Cure and Seal for Concrete
- Restrictions on Use: Intended for industrial and professional users
- CAS#: Mixture

Company Information

- RussTech, Inc.
11208 Decimal Drive
Louisville, KY 40299
502-267-7700
- Prepared by Department of Environmental, Health and Safety

Emergency number – (served 24 hours)

- CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Classification of substance or mixture:

Flammable liquid	Category 3	Flammable liquid and vapor
Skin Corrosion / Irritation	Category 2	Causes skin irritation
Carcinogenicity	Category 1B	May cause cancer
Toxic to Reproduction	Category 2	Suspected of damaging fertility or the unborn child
Aspiration hazard	Category 1	May be fatal if swallowed and enters airways
Aquatic Hazard (acute)	Category 2	Toxic to aquatic life

Label elements: This material requires a hazard warning label in accordance with GHS criteria

Pictogram:



Signal Word: **DANGER**

Hazard statement(s):

H226: Flammable liquid and vapor
H304: May be fatal if swallowed and enters airways
H315: Causes skin irritation
H350: May cause cancer
H361: Suspected of damaging fertility or the unborn child
H401: Toxic to aquatic life

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Precautionary statement(s):

P201: Obtain special instructions before use
P202: Do not handle until all safety precautions have been read and understood
P280: Wear protective gloves/eye protection/face protection
P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion proof electrical/ventilating/lighting equipment
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P264: Wash face, hands, and arms thoroughly after handling
P273: Avoid release to the environment
P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+P310: IF SWALLOWED: Immediately call a poison center or doctor/physician
P331: Do NOT induce vomiting
P302+P352: IF ON SKIN: Wash with plenty of soap and water
P303+P361+P353: IF ON SKIN (or hair): Remove immediately all clothing, rinse skin with shower or water
P308+P313: If exposed or concerned: Get medical advice
P332+P313: If skin irritation occurs get medical attention / advice
P362+P364: Take off contaminated clothing and wash before reuse
P370+P378: In case of fire use water fog, foam, dry chemical, or carbon dioxide (CO2) for extinction
P403+ P235: Store in well ventilated place. Keep cool.
P405: Store locked up
P501: Dispose of contents/container in accordance with local/state/federal regulations.

Hazards not otherwise classified:

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Components:		
Chemical Name:	CAS#:	Content % by weight
Aromatic Petroleum Distillates	64742-95-6	20 – 50%
1,2,4-Trimethylbenzene	95-63-6	10 – <25%
1,3,5-Trimethylbenzene	108-67-8	1 – <5%
Cumene	98-82-8	1 – <5%
Xylene	1330-20-7	0.1 – <1%
Styrene	100-42-5	0.1 – <1%
Ethylbenzene	100-41-4	0.1 – <1%

4. FIRST AID MEASURES

Inhalation: Move to fresh air. Respiratory tract irritant.

Eyes: Immediately flush eyes with water lifting upper and lower lids occasionally for 15 minutes.
Remove contact lenses if easy to do. Seek medical attention.

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Skin: Remove contaminated clothing immediately. Wash affected area thoroughly with soap and water. If irritation persists, seek medical attention. Wash contaminated clothes before re-use. Prolonged or repeated skin exposure may cause redness, itching, irritation, and eczema/chapping.

Ingestion: Rinse mouth. Contact physician or Poison Control Center (PCC) immediately. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into lungs. Never give liquid to unconscious person.

Note to physician: If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use water fog, foam, dry chemical, or carbon dioxide (CO₂)

Unsuitable extinguishing media: Straight streams of water will scatter and spread fire

Specific hazards in case of fire: Prevent runoff. Use water spray to cool fire exposed surfaces. Vapors are flammable and heavier than air. Prevent buildup of vapors or gases. Flashback is a possibility.

Special protective equipment required for firefighting: SCBA (Self Contained Breathing Apparatus)

Additional information for firefighters: Incomplete combustion products, smoke, fume, oxides of carbon

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

- Ventilate closed spaces before entry
- Eliminate all ignition sources
- Wear appropriate PPE
- Keep unprotected persons away
- Use only non-sparking tools for cleanup and remediation

Environmental precautions:

- Avoid release to environment
- Prevent material from entering drains, septic systems, water sources, etc. using non-combustible dikes, absorbent materials, and booms.

Material containment and clean up:

- Contain material with dikes. Absorb with non-combustible material and put in closed container. Remove spilled material to storage for proper disposal. Dispose of in accordance with local, state, and federal regulations. See section 13.

7. HANDLING AND STORAGE

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Obtain special instructions prior to use. Use PPE as required. Keep away from heat, sparks, open flames, and other ignition sources. No smoking. Use only with adequate ventilation. Prevent spills or leaks. Use proper bonding and grounding procedures. This material is a static accumulator. Prevent accumulation of static charge. Wash hands thoroughly after handling. Observe good industrial hygiene.

Information about protection against explosions and fires: Material and vapors are flammable. See section 5.

Information about safe storage: Store in original container. Keep container closed. Store in a cool dry well-ventilated area. Store locked up.

Shelf Life: 18 months

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8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

Additional information about exposure controls: Adequate ventilation should be provided so that exposure limits are not exceeded. Mechanical ventilation or local exhaust ventilation may be required.

Chemical Identity	Type	Exposure Limit Values	Source
Aromatic Petroleum Distillates	PEL	100 ppm 400 mg/m ³	US OSHA Table Z-1 Limits for air contaminants (29 CFR 1910.1000) (02-2006)
1,2,4 Trimethylbenzene	TWA	25 ppm 125 mg/m ³	US OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
1,3,5 Trimethylbenzene	TWA	25 ppm	US ACGIH Threshold Limit Values (2011)
Cumene	PEL	50 ppm 245 mg/m ³	US OSHA Table Z-1 Limits for air contaminants (29 CFR 1910.1000) (02-2006)
Xylene	TWA	100 ppm 435 mg/m ³	US OSHA Table Z-1 Limits for air contaminants (29 CFR 1910.1000) (02-2006)
Styrene	TWA	100 ppm	US OSHA Table Z-2 (29 CFR 1910.1000) (02-2006)
Ethylbenzene	PEL	100 ppm 435 mg/m ³	US OSHA Table Z-1 Limits for air contaminants (29 CFR 1910.1000) (02-2006)

PPE (personal protective equipment) and hygienic measures:

- Observe good industrial hygiene practices
- Wear ANSI approved safety glasses or goggles to protect eyes
- Wear latex or rubber gloves to protect skin
- Wash hands thoroughly before breaks and at end of workday
- In case of inadequate ventilation use a suitable respirator

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

- Physical state: Liquid
- Color: Clear
- Odor: Mild petroleum/solvent
- Odor Threshold: Not determined

Physical properties:

- pH value (@70°F): Not available
- Relative density: 0.895
- Boiling point: 320-335° F (160-168° C)
- Freezing point/Melting point: Not available
- Decomposition temperature: Not available
- Vapor pressure: 9.5 hPa (70° F / 21° C)
- Vapor density: Vapors are heavier than air and may travel along floor and in bottom of containers
- Evaporation rate: slower than ether
- Solubility in / Miscibility with water: Practically insoluble
- Auto ignition: not available
- Flash point: 114°F / 46°C Method: Setaflash Closed Cup
- Lower / Upper Flammability Limits: LEL 1% UEL 7% (Approximate volume % in air)
- Viscosity: <20.5 mm²/s (104°F / 40°C)

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10. STABILITY AND REACTIVITY

Material reactivity: No data available

Material stability: Material is stable under normal conditions

Possibility of hazardous reactions: No data available

Incompatible materials to avoid: Strong oxidizers, strong acids, strong bases

Conditions to avoid: Heat, sparks, flame

Hazardous decomposition products: Thermal decomposition or combustion may liberate carbon dioxides and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation: In high concentrations, vapors, fumes, or mists may irritate nose, throat, and mucus membranes

Skin: May be harmful in contact with skin. Causes skin irritation

Eye: Eye contact is possible and should be avoided

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise

Acute Toxicity:

Oral (product) – ATEmix, 10,764.41 mg/kg

Dermal (product) – ATEmix: 3,432.26 mg/kg

Inhalation (product) – Not classified for acute toxicity based on available data

Repeated dose (product) – no data available

Skin corrosion/irritation (product) – no data available

Serious eye damage/irritation (product) – no data available

Respiratory or Skin sensitization (product) – no data available

Carcinogenicity (product) – May cause cancer. Suspected of causing cancer

IARC Monographs on the Evaluation of Carcinogenic Risk to Humans

- Cumene – possibly carcinogenic to humans
- Styrene – possibly carcinogenic to humans
- Ethylbenzene – possibly carcinogenic to humans

US National Toxicology Program (NTA) Report on Carcinogens

- Cumene – reasonably anticipated to be a human carcinogen
- Styrene – reasonably anticipated to be a human carcinogen

Specific Target Organ Toxicity -Single Exposure (cumene) Inhalation – vapor category 3 respiratory tract irritation

Cell Mutagenicity (product) – no data available

Reproductive toxicity (product) – Suspected of damaging fertility or the unborn child

Aspiration hazard (product) – May be fatal if swallowed and enters airways

12. ECOLOGICAL INFORMATION

The information is based on data available for the material, the components of the material and similar material.

Ecotoxicity: expected to be toxic to aquatic life

Biodegradation: no data available

Bioaccumulation potential / Bioconcentration Factor (BCF): no data available

Partition Coefficient n-octanol / water (log Kow): no data available

Mobility in soil: no data available

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13. DISPOSAL CONSIDERATIONS

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Empty Container Warning: Empty containers may contain residue and can be dangerous. Do not reuse empty container. Do not expose empty containers to heat, sparks, static electricity, or other sources of ignition. Empty containers should be disposed of in accordance with local, state, and federal regulations.


14. TRANSPORT INFORMATION

Material is not regulated for transport under 49 CFR in a container of 119-gallon capacity or less when transported solely by land as long as the material is not considered a hazardous waste.

In containers of more than 119 gallons or transported as a hazardous waste:

UN1866, RESIN SOLUTION, 3, PG III

15. REGULATORY INFORMATION

- Sara 302 (extremely hazardous materials): not applicable
- Sara 311/312: Immediate health hazard, Delayed health hazard, Fire hazard
- Sara 313: product includes a toxic chemical listed pursuant to EPCRA section 313 or 40 CFR Part 372 by weight:
 - 1,2,4-Trimethylbenzene (<25%), Cumene (<5%), Styrene (<1%), Ethylbenzene (<1%)
- TSCA: All components are listed or exempt
- Sara 304: Emergency Release Notification / CERLA Hazardous Substances List (40 CFR 302.4)
 - Cumene 5000 lbs.
 - Xylene 100 lbs.
 - Styrene 1000 lbs.
 - Ethylbenzene 1000 lbs.
- US California Proposition 65: This product contains Cumene, a chemical known by the state of California to cause cancer, birth defects or other reproductive harm
 **WARNING** Cancer and Reproductive Harm
www.P65Warnings.ca.gov
- VOC: Regulatory VOC (less water & exempt solvent): 682 g/l
- VOC Method 310: 76.17%

16. OTHER INFORMATION

This information is based on our current knowledge and is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of RussTech's knowledge or is obtained from sources believed by RussTech to be accurate. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. RussTech assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, RussTech assumes no responsibility for injuries caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.