



Date of Preparation: 01/02/04

Section 1 - Chemical Product and Company Identification

Product Name: TechCrete Type R and TechCrete Type TBR
Chemical Family: Resin, Polymer and Aggregate Blend
Chemical Formula: Mixture
CAS Number: Mixture
Manufacturer: Roadtechs Europe Limited, Mid Suffolk Business Park, Eye, Suffolk, IP23 7HE, England, UK, +44 (0) 1379 872550
Supplier: Crafc0, Inc. 420 N. Roosevelt Ave., Chandler, AZ, 85226 USA

EMERGENCY TELEPHONE Numbers: 1(602) 276-0476 Normal Business Hours
 Chemtrec 1(800) 424-9300 After Business Hours

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt.
Aromatic hydrocarbon resin	68527-25-3	-
Styrene butadiene styrene	9003-55-8	-
Napthenic oil	64742-59-2	-
EVA olefin/ester copolymer	24937-78-8	-
Silica	14808-50-7	-
Calcium carbonate	1317-65-3	-
Granite aggregate	Not applicable	-

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
Aromatic Resin	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	N.E..
SBS	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
Napthenic oil	N.E.	N.E.	N.E.	N.E.	N.,E.	N.E.	N.E.
EVA copolymer	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
Silica	See Sec. 8	N.E.	0.1 mg/m3	N.E.	N.E.	N.E.	N.E.
Calcium carbonate	15 mg/m3	N.E.	10 mg/m3	N.E.	N.E.	N.E.	N.E.
Granite aggregate	N.E.	N.E.	N.E.	N.E.	N.E	N.E.	N.E.
N.E.- none established							

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Potential Health Effects

Primary Entry Routes: Inhalation, skin, and eye contact

Inhalation: Inhalation of mists, vapors or fumes may irritate respiratory tract.

Eyes: Exposure to mists vapors or fumes may cause irritation. Direct contact with hot material will cause thermal burns and possible blindness.

HMIS
H 1
F 1
R 0

PPE†
 †Sec. 8

Skin: Direct contact with hot material will cause thermal burns. Prolonged exposure may cause irritation.

Ingestion: None expected. Ingestion of hot material will cause thermal burns. Ingestion may cause gastrointestinal disturbances, irritation, nausea, vomiting, blockage and diarrhea

Carcinogenicity: This product contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the normal routes of exposure are unavailable. The National Toxicology Program (NTP) has determined that respirable crystalline silica may reasonably be anticipated to be a carcinogen, based upon animal studies. The International Agency for Research on Cancer (IARC) classified crystalline silica inhaled in the form of quartz cristabolite from occupational sources as Group 1- carcinogenic to humans. Napthenic oil contains polycyclic aromatic hydrocarbons which upon prolonged contact may cause cancer of the lungs and skin.

Medical Conditions Aggravated by Long-Term Exposure: Pre-existing skin disorders and eye problems.

Section 4 - First Aid Measures

Inhalation: Remove to fresh air. If not breathing, get immediate medical attention. Clear airway and start mouth-to-mouth artificial respiration (if trained and certified) or use a bag-mask respirator. If victim is having trouble breathing, transport to medical care and, if available, give supplemental oxygen.

Eye Contact: Do not rub eyes. Flush thoroughly with water. Seek medical attention if irritation develops and persists. If hot material contacts eyes, flush continuously with water and seek medical attention.

Skin Contact: Wash skin areas with plenty of water and soap. Seek medical attention if irritation develops and persists. If hot material contacts skin, cool affected area with cool water. Do not attempt to remove cooled material from skin as the damaged skin may be easily torn. Do not use solvents. Seek medical attention.

Ingestion: Give 3-4 glasses of water, but do not induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine whether vomiting or the evacuation of the stomach is necessary. Do not give anything by mouth to an unconscious person.

Section 5 - Fire-Fighting Measures

Flash Point: >445F (>230C)

Autoignition Temperature: Not determined

Lower Explosive Level (LEL): Not determined

Upper Explosive Limit (UEL): Not determined

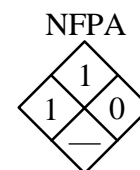
Flammability Classification: III B Combustible

Extinguishing Media: Carbon Dioxide, foam, dry powder, and water fog. **DO NOT USE WATER JET.**

Unusual Fire or Explosion Hazards: This product may ignite when sufficient heat is applied. Smoke from fire may be hazardous.

Combustion Product: Fire may produce hazardous decomposition products.

Fire-Fighting Instructions and Equipment: Use of foam or water may cause frothing. This statement applies to liquids having flashpoints above 212F and is included only as a precaution... It does not indicate that water or fire-fighting foam should not be used. The frothing may be violent and could endanger fire fighters located too close to the burning liquid, particularly when solid streams of water are directed onto the hot, burning liquid. A carefully applied water spray has been used to achieve extinguishment by deliberately causing frothing on the surface of the liquid; the foaming action blankets the surface of the liquid and extinguishes the fire by excluding oxygen. Do not release runoff from fire control methods to sewers or waterways. Use a water spray to cool fire-exposed containers. Use self-contained breathing apparatus in enclosed areas where heavy smoke may occur.



Section 6 - Accidental Release Measures

Spill /Leak Procedures: Stop spill at source. Confine spill by diking or impoundment. Remove sources of heat or ignition. Allow material to cool and scrape up material for disposal. Clean-up spill but do not flush to sewer or surface water. Ventilate area and avoid breathing mists, vapors or fumes. Notify local health and pollution control agencies as appropriate. Follow applicable OSHA regulations (29 CFR 1910.120). For disposal follow all Federal, State and local regulations regarding solid waste.

Section 7 - Handling and Storage

Handling and Storage Precautions: Wear appropriate protective equipment (see Section 8). Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep material dry and avoid extremes of temperature. Keep unused product in original containers. Keep away from sources of ignition.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use engineering controls to reduce air contamination to permissible exposure limits and/or threshold limit values (Section 2).

Eye / Face Protection: Wear approved safety goggles. Wear face shield if there is a risk of splashing hot material.

Skin Protection: Wear suitable overalls and gloves; exposed skin must be covered due to risk of splashing.

Respiratory Protection: Should not be necessary under normal working conditions. Where high concentrations of mists, vapors or fumes are present or exposure limits are exceeded, wear a respirator that has been selected by a technically qualified person for the specific work conditions.

Section 9 - Physical and Chemical Properties

Physical State: Solid particles at room temperature.

Liquid above the softening point.

Appearance: Grey

Odor: Not noticeable

Odor Threshold: Not determined

Vapor Pressure: <1 mm Hg @ 20C

Vapor Density (Air=1): >5

Specific Gravity (H₂O=1): 1.7-2.0

Water Solubility: Insoluble

Boiling Point: Not determined

Melting Point: Not determined

% Volatile: Not determined

Evaporation Rate: Not applicable

pH: Not determined

Section 10 - Stability and Reactivity

Stability: Stable under normal use conditions.

Polymerization: Will not occur.

Chemical Incompatibilities: Avoid contact with water when material is hot.

Conditions to Avoid (Stability): Do not overheat product.

Hazardous Decomposition Products: Oxides of carbon and nitrogen, styrene, methyl styrene and toluene.

Section 11- Toxicological Information

Carcinogenicity: This product contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the normal routes of exposure are unavailable. The National Toxicology Program (NTP) has determined that crystalline silica maybe reasonably anticipated to be a carcinogen, based on animal studies. The International Agency for Research on Cancer (IARC) classified crystalline silica inhaled in the form of cristabolites from occupational sources as Group I – carcinogenic to humans. Napthenic oil contains polycyclic aromatic hydrocarbons which upon prolonged contact may cause cancer of the lungs and skin.

Component: Calcium Carbonate

Toxic Dose- LD 50: 6450 mg/kg (oral rat)

Section 12 - Ecological Information

Ecotoxicity: No data

Environmental Transport: No data

Environmental Degradation: Biodegradable

Soil Absorption: No data

Section 13 - Disposal Considerations

Under the Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user to determine, at the time of disposal, whether the material is a hazardous waste according to RCRA.

The transportation, storage, treatment and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can occur only improperly permitted facilities. Check state and local regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Disposal of this material must be conducted in compliance with all federal, state and local regulations.

Section 14 - Transport Information

Ambient Temperature Material (solid in package) Proper Shipping Name: Not regulated by DOT Hazard Class: Not Applicable DOT ID No.: Not Applicable DOT Shipping Label: Not regulated by DOT	Hot Material (liquid above 212F) Proper Shipping Name: Elevated Temperature Liquid N.O.S. Hazard Class: 9 Packing Group: PG III Labels Required: Class 9 Placards Required: "HOT" UN 3257
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Section 15 - Regulatory Information

U.S. Federal Regulatory Information:

RCRA Hazardous Waste Number; Not listed

RCRA Hazardous Waste Classification (40 CFR 261): This material should not be listed due to characteristics.

CERCLA: Not listed

CERCLA Reportable Quantity (RQ): This material in its solid form is not a listed hazardous substance and does not have a reportable quantity. However, if spilled into the waters of the U.S., it may be reportable under the Clean Water Act.

SARA 311 Categories:	Immediate (Acute) Health Effects	Yes
	Delayed (Chronic) Health Effects	Yes
	Fire Hazard	No
	Sudden Release of Pressure Hazard	No
	Reactivity Hazard	No

EPA/TSCA Inventory: yes

State Regulations: The following chemicals are listed by specifically listed by individual states, for details on each states regulatory requirements you should contact the appropriate agency in that state.

Pennsylvania Right-to-Know- Limestone (calcium carbonate), silica

Rhode Island Hazardous Substances List- Limestone (calcium carbonate)

Minnesota Right-t-Know- Limestone (calcium carbonate), silica

Massachusetts Right-to-Know- Limestone (calcium carbonate), silica, naphthenic oil, carcinogen extraordinarily hazardous

Florida Hazardous Substance List- silica

New Jersey Right-to-Know- silica

Texas Air Contaminants with Health Effects Screening Level

Illinois Toxic Substance Disclosure to Employees List

California State Superfund Hazardous Substance

California Proposition 65 Carcinogens or Reproductive Toxins List: This product contains a chemical known to the Sate of California to cause cancer, birth defects or other reproductive harm.

Other Regulations: none known

Foreign Inventories: Canadian HMIS

Section 16 - Other Information

NFPA Hazard Rating	- Health	1 Slight
	- Fire	1 Slight
	- Reactivity	0 Least

Prepared By: John Hobbs **Phone:** 602-276-0476

Supersedes MSDS Dated: 07/25/01

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