

SAFETY DATA SHEET

ReCharge®

Section 1. Identification

Product name : ReCharge®

Synonyms : RAP additive, Cold Mix additive, Cold-In-Place Recycling (CIR) additive

Relevant identified uses of the substance or mixture and uses advised against

Product use : Road paving

Manufacturer : Blacklidge Emulsions, Inc.

12251 Bernard Parkway, Suite 200

Gulfport, MS 39503 (228) 863-3878

Emergency telephone

number

: CHEMTREC - (800) 424-9300

Section 2. Hazards Identification

OSHA/HCS Status : This product has not been tested by Blacklidge Emulsions, Inc. to determine its specific

health hazards. Therefore, the information provided in this section includes health

hazard information on the product components.

Classification : Toxic to Reproduction

Toxic to Reproduction	Category 2
Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2
Acute Toxicity – Inhalation (Dusts/Mists)	Category 4
Flammable Liquids	Category 3
Skin Corrosion/Irritation	Category 2
Germ Cell Mutagenicity	Category 1B
Aspiration Hazard	Category 1
Serious eye damage/Eye irritation	Category 2A

GHS Label Elements

Hazard pictograms :







Signal Word : Danger

Hazard Statements : Flammable liquid and vapor. Causes skin irritation. May cause genetic defects. May

cause cancer. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. May be severely irritating to the skin and eyes. Potential reproductive hazard.

Hazards Not Otherwise : N

Classified (HNOC)

: None



Precautionary Statements

Prevention : Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe vapor.

Use only outdoors in a well-ventilated area.

Wear personal protective equipment as required.

Wear protective gloves.
Wear eye or face protection.

Keep away from heat/sparks/open flames and hot surfaces.

Do not eat, drink or smoke when using this product.

Wash hands and any possibly exposed skin thoroughly after handling.

Response : IF exposed or concerned: Get medical advice and/or attention.

IF ON SKIN: Take off all contaminated clothing immediately and wash before reuse.

Wash with plenty of soap and water. In case of fire: Use for extinction.

IF inhaled: Remove person to fresh air and keep comfortable for breathing.

IF skin irritation occurs: Get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

IF eye irritation persists: Get medical attention.

Storage : Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal : Dispose of contents and container in accordance with all applicable federal, state and

local waste disposal regulations.

Section 3. Composition/Information on Ingredients

Substance/Mixture : Mixture

Composition Information

Name	CAS No.	Concentration %
Biosynthetic Oil – Petroleum Mixture	Proprietary	92 –96
Naphthalene	91-20-3	0 – 3
Xylene (o,m,p isoners)	1330-20-7	0 – 2
Ethylbenzene	100-41-4	0 – 1
Toluene	108-88-3	0-1
Cyclohexane	110-82-7	0-1
Benzene	71-43-2	<1

^{*}Values do not reflect absolute minimums and maximums; these values are typical which may vary from time to time.

Section 4. First Aid Measures

Description of Necessary First Aid Measures

Eye Contact : Flush immediately with large amounts of water for at least 15 minutes. Eyelids should

be held away from the eyeball to ensure thorough rinsing. Remove contact lenses. If eye irritation persists, obtain medical treatment. For contact with heated product, flush immediately with cool water for at least 15 minutes. Get medical attention.

^{**}Material may contain polycyclic aromatic hydrocarbons (PAHs).



Skin Contact

: Wash with soap and water. Rinse thoroughly. For contact with heated product, flush immediately with plenty of cool water for at least 15 minutes. Get medical attention if irritation, discomfort or vomiting develops or persists.

Place contaminated clothing in closed container for storage until laundered or discarded. If clothing is to be laundered, inform person performing operation of contaminant's hazardous properties.

Inhalation

: Remove to fresh air. Apply artificial respiration if not breathing. GET IMMEDIATE MEDICAL ATTENTION if victim is unconscious. Seek medical attention if cough or symptoms develop.

Ingestion

: If victim is conscious, give liquids. Do not induce vomiting. If spontaneous vomiting occurs, hold the victim's head lower than their hips to prevent aspiration. If large amounts are swallowed, contact a physician or Poison Control Center. GET MEDICAL ATTENTION IMMEDIATELY.

Potential Acute Health Effects

Eyes

: Slightly irritating. May cause tearing, burning sensation and redness. Exposure to vapors, fumes or mists may cause irritation. Contact with product at elevated temperatures may result in thermal burns.

Skin

: May cause skin dryness, irritation and defatting of the skin. Contact with heated material may cause thermal burns.

Inhalation

: Breathing of the mists, vapors or fumes may irritate eyes, nose, throat, upper respiratory tract and lungs. Symptoms may include sore throat, coughing, labored breathing, sneezing and burning sensation, depending on the concentration and duration of exposure. Fumes or vapors from heated material may be irritating to the respiratory tract.

May cause central nervous system depression or effects. Symptoms may include headache, excitation, euphoria, dizziness, incoordination, drowsiness, lightheadedness, blurred vision, fatigue, tremors, convulsions, loss of consciousness, corna,

respiratory arrest and death, depending on the concentration and duration of

exposure.

Components have been shown to be weak cardiac sensitizers which can result in cardiac arrhythrnia and ventricular fibrillation.

Ingestion

 $: \ Gastroint estinal\ tract\ irritation\ with\ possible\ nausea,\ vomiting\ and\ diarrhea.$

See Toxicological Information (Section 11).

Exposure may also cause central nervous system symptoms similar to those listed under "Inhalation" (see Inhalation section).

Indication of immediate medical attention and special treatment needed, if necessary

Note to Physician

: Treat symptomatically. Contact physician or Poison Control Center immediately if large quantities have been ingested or inhaled.

Section 5. Fire-fighting Measures

Extinguishing Media

Suitable Extinguishing

Media

: Water spray (fog), regular foam, dry chemical, or carbon dioxide



Unsuitable Extinguishing Media

: Do not direct solid streams into the hot burning liquid.

Specific Hazards arising from The Chemical

: Use water spray or fog to cool exposed containers. Closed containers of this material may explode when subjected to heat from the surrounding fire. Vapor may cause flash fire. Vapors can flow along surfaces to distant ignition source and flash back to static discharge.

Hazardous Thermal Decomposition Products

: Decomposition products may include the following materials: Carbon Dioxide, Carbon monoxide and other asphyxiants.

Special Protective Equipment: Evacuate area and fight fire from a safe distance. Exercise caution when fighting any chemical fire.

and Precautions for Fire **Fighters**

Use water spray to cool adjacent structures, exposed containers and to protect Firefighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Emergency Procedures

: Wear protective equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unnecessary people away. Ensure adequate ventilation. Eliminate or shut off ignition sources and keep ignition sources out of the area. Protect from heat.

(See Exposure Control/Personal Protection – Section 8).

Environmental Precautions

: If product is released to the environment, take immediate steps to stop and contain release. Caution should be exercised regarding personnel safety and exposure to the released product. Notify local authorities and the National Response Center, if required.

Methods and Materials for Containment

: Contain liquid with sand or soil. DO NOT use combustible materials such as sawdust.

Methods and Materials for Containment and Cleaning Up

Spill or Leak Procedure

: Keep unnecessary people away. Approach release from upwind. Contain liquid with sand or soil. DO NOT use Combustible materials such as sawdust. Use appropriate protective equipment as stated in Section 8. Advise the Environmental Protection Agency (EPA) and appropriate state agencies, if required Absorb spill with inert material (e.g. sand or soil), then place in a chemical waste container. Vacuum or sweep up material and place in a disposal container. Dispose of via a licensed waste disposal contractor. See Exposure Controls/Personal Protection (Section 8).

Section 7. Handling and Storage

Safe Handling Precautions

: Do not eat, drink or smoke in areas of use or storage. Always wash hands after Handling the product. Use only in well ventilated areas. Wear appropriate personal protective equipment. Do not breathe vapor or mist. Do not ingest.

Ground lines and equipment used during transer to reduce the possibility of static spark-initiated fire or explosion. Use non-sparking tools. Do not cut, grind, drill, weld or reuse containers unless adequate precautions are taken against these hazards.



Do not heat to temperatures above the boiling point of water (approximately 212°F or 100°C).

Storage Conditions

: Store in tightly closed containers in a cool, dry, isolated, well-ventilated area away from heat, sources of ignition and incompatibles. Store away from oxidizing agents. Empty containers may contain product residue. Do not reuse without adequate precautions.

Section 8. Exposure Controls/Personal Protection

Name	Exposure Limits / Health Hazards	
Oil mist, mineral	OSHA PEL	
	TWA: 5mg/m ³	
	ACGIH TLV TWA: 5mg/m³ Form: Inhalable fraction	
	NIOSH REL (United States, 1/2013)	
	TWA: 5mg/m ³ 10 hours Form: Mist	
	STEL: 10mg/m ³ 15 minutes Form: Mist	
Polycyclic Aromatic Hydrocarbons	OSHA PEL (United States, 6,1993)	
	TWA: 0.2 mg/m ³ Form: Benzene-soluble	
	ACGIH TLV (United States, 3,2004)	
	TWA: 0.2mg/m³ Form: Benzene-soluble	
Benzene	OSHA PEL	
	STEL: 5 ppm	
	TWA: 1 ppm	
	Ceiling: 25 ppm	
	NIOSH REL (United States, 1/2013)	
	TWA: 0.1 ppm	
	STEL: 1 ppm	
Xylene	ACGIH STEL: 150 ppm	
	NIOSH REL (United States, 1/2013)	
	STEL: 655 mg/ m ³	
	TWA: 435 mg/m ³	

Appropriate Engineering Controls

: Ventilation and other forms of engineering controls are the preferred means for controlling exposures. Local exhaust ventilation may be necessary when

handling or using this product to keep exposure to airborne contaminants below the

exposure limit.

Consult NIOSH (National Institute for Occupations Safety and Health) for more information on guidelines for engineering controls for asphalt pavers.

Personal Protective Equipment

Eye Protection : Remove contact lenses and wear chemical safety glasses and/or goggles or where

contact with product may occur.

Skin Protection: Protective gloves are recommended to protect against contact with product. Selection

of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Use appropriate chemical protective gloves when handling at room temperature. Where splashing is possible, fully chemical resistant protective clothing

and boots are recommended.

Strict hygiene practices are essential.



Respiratory Protection

: Inhalation of mists and vapors should be avoided at all times.

Concentration in air determines the level of respiratory equipment. Not required under normal conditions of use. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable. A NIOSH/MSHA approved air purifying respirator with an appropriate cartridge, canister, and/or filter may be permissible under certain circumstances where airborne

concentrations are expected to exceed exposure limits. Respiratory protection is not

usually needed unless product is heated or misted.

Ventillation : Provide adequate general and local ventilation:

(1) To maintain airborne chemical concentrations below applicable exposure limits,

(2) To prevent accumulation of flammable vapors and formation of explosive atmospheres, and

(3) To prevent formation of oxygen deficient atmospheres, especially in confined spaces.

Note: This product may release gases or vapors that can displace oxygen in exclosed areas.

Section 9. Physical and Chemical Properties

Physical State : Liquid (Viscous)

Appearance : Brown

Odor : Musty petroleum odor

<u>Property</u> <u>Values</u>

Boiling Point : 424-667°F (218-353°C)

Freezing Point : <32°F (0°C)
Specific Gravity @ 25°C : 0.8621

: Not available **Melting Point Flash Point** : 140°F (60°C) **Vapor Pressure** : Not available **Vapor Density** : Not available **Bulk Density** : Not available **Solubility in Water** : Insoluble **Octanol/Water Partition** : Not available pH Value : Not available : Not available Viscosity **Molecular Weight** : Not available **Odor Threshold** : Not available

Section 10. Stability and Reactivity

Reactivity : The product is non-reactive under normal conditions of use.

Stability : No decomposition if used and stored according to specifications.

Hazardous Polymerization: Will not occur.

Conditions to Avoid : Excessive heat, sources of ignition and open flame.



Incompatible Materials : Oxidizing agents, strong acids or bases

Hazardous Decomposition

Products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition products may include the following

materials: Carbon dioxide, Carbon monoxide and other asphyxiants.

Section 11. Toxicological Information

Inhalation : Vapors and/or mists which may be formed at elevated temperatures may be irritating

to eyes, nose, throat, upper respiratory tract and lungs.

: May cause eye irritation. May cause tearing, burning sensation and redness. Eyes

Contact with product at elevated temperatures may result in thermal burns.

Skin : May cause skin dryness, irritation and defatting of the skin. Contact with product at

elevated temperatures may result in thermal burns.

: Gastrointestinal tract irritation with possible nausea, vomiting and diarrhea. May be Ingestion

fatal if swallowed and enters airways.

Toxicological Data

Acute Toxicity : Not classified as acutely toxic.

Extracts : Acute Oral Toxicity: Rat, LD50>5000 mg/kg body weight

> Rabbit, LD50>10,000 mg/kg body weight Acute Dermal Toxicity: Rat, 4 hr, LC50>10,000 ppm, 7 hours Acute Inhalation Toxicity:

Skin Corrosion/Irritation : Causes skin irritation. May cause skin dryness or cracking. Heated material can cause

thermal burns.

Eye Irritation : May cause eye irritation. Heated material can cause thermal burns.

Skin Sensitization : No evidence of skin sensitization.

Reproductive Toxicity : This product may contain components which may cause adverse reproductive and/or

development effects. Avoid contact during pregnancy/while nursing.

: No teratogenic effects observed. **Teratogenicity**

(single exposure)

Specific Target Organ Toxicity: May cause dizziness or drowsiness.

(repeated exposure)

Specific Target Organ Toxicity : Target organs: Potential dermal effects

Carcinogenicity : Cancer hazard. May cause cancer.

Section 12. Ecological Information

Ecotoxicity effects : Toxic to aquatic organisms, with long lasting effects.

Persistence and degradability: Not readily biodegradable. Considered to be inherently biodegradable.

Bioaccumulative Potential : Constituents of RAEs show measured or predicted values for log Kow ≥4 and are

considered potentially bioaccumulative.

: Not available. **Mobility in Soil**



Other Adverse Effects : No known significant effects or critical hazards.

Section 13. Disposal Considerations

Disposal Methods

: Follow federal, state and local regulations. This material is not a RCRA hazardous Waste, if not contaminated. If material has been "used", RCRA criteria (ignitability, reactivity, corrosivity and toxicity) must be determined.

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal, state and local regulations regarding proper disposal of waste material that may incorporate some amount of this product.

Section 14. Transport Information

DOT (49 CFR 172.101)

Transport Information: Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spill.

UN Proper Shipping Name : None

UN/Identification Number : Not Regulated
Transport Hazard Class(es) : Combustible Liquid

Packing Group : III

TDG (Canada)

UN Proper Shipping Name : None

UN/Identification Number : Not Regulated

Transport Hazard Class(es) : 3
Packing Group : III

Section 15. Regulatory Information

US Federal Regulatory Information

TSCA 8(a) PAIR : Nonylphenol, ethoxylated

United States Inventory : This product is a "Hazardous Chemical" as defined by the OSHA Hazard

TSCA 8(b) Communication Standard, 29 CFR 1910.1200. Some components are on the US EPA

TSCA Inventory List.

State Regulations : Massachusetts Listed as 8012-95-1 (Oil Mist, Mineral).

Minnesota Listed as 8012-95-1 (Oil Mist, Mineral). MN cancer

designation.

New Jersey Listed as Mineral Oil (untreated or mildly treated).

Pennsylvania Listed as Mineral Oil Mist.



California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

EPA Superfund Amendment & Reauthorization Act (SARA)

Section 311/312 Hazard Categorization

Acute	Chronic	Fire	Pressure	Reactive
Х	X	X		

Section 313 EPCRA Toxic Substances

Product Component	CAS No.	Weight %
Naphthalene	91-20-3	0-3
Xylene	1330-20-7	0 – 2
Ethylbenzene	100-41-4	0 – 1
Toluene	108-88-3	0 – 1
Cyclohexane	110-82-7	0 – 1
Benzene	71-43-2	0 – 0.5

NFPA Title Ratings

Health	Flammability	Reactivity	Special Hazards
1	1	0	0

HMIS Ratings

Health	Flammability	Reactivity
2*	1	0

^{*}Indicates chronic health hazard

Key: RQ = Reportable Quantity

TPQ = Threshold Planning Quantity (EHS)

Section 16. Other Information

Issue Date : March 6, 2020

Disclaimer

The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. However, this SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, form any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

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