



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCES AND OF THE COMPANY

PRODUCT NAME	ECOLOC 168 Industrial Emulsion		
PRODUCT USE	Binder for industrial and construction applications, Dust suppressant.		
MANUFACTURER'S NAME	CRC COATING TECHNOLOGIES INC.™ 6254 Skyway Rd., PO Box 915 SMITHVILLE, ON L0R 2A0 info@crccoatings.com	TEL 289-448-0157 888-292-5565 FAX 905-527-0606	CRC COATING TECHNOLOGIES INC.™ 3909 Witmer RD Suite 1014 NIAGARA FALLS, NY 14305 www.crccoatings.com

2. HAZARDS IDENTIFICATION

	GHS CLASSIFICATION: Flammability 4, Reactivity 5, Health 4
ROUTE OF ENTRY	Inhalation, ingestion, skin, eyes
CARCINOGENIC STATUS	Not available
TARGET ORGANS	Skin, eyes, digestion
HEALTH EFFECTS – EYE	Causes eye irritation.
HEALTH EFFECTS – SKIN	Harmful in contact with skin. Causes mild skin irritation. Hot product can cause burns.
HEALTH EFFECTS – INGESTION	Harmful if swallowed.
HEALTH EFFECTS - INHALATION	Harmful if inhaled.
SIGNAL WORD (GHS-US)	Warning
HAZARD STATEMENTS (GHS-US)	H371 – may cause damage to organs.
PRECAUTIONARY STATEMENTS (GHS-US)	P260 – Do not breathe vapors, mist, or spray. P264 – Wash hands, forearms, and other exposed areas thoroughly after handling. P501 – Dispose of contents/container in accordance with local, regional, national, and international regulations.
OTHER HAZARDS	Exposure may aggravate pre-existing eye, skin, or respiratory conditions.
Unknown Acute Toxicity (GHS-US)	not available

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	Product Identifier	% (w/w)
Tall Oil	(CAS No) 8016-81-7	30-60
Water		Balance

4. FIRST AID MEASURES

GENERAL	
FIRST AID – INHALATION	Move person to fresh air. Seek medical attention. Exposure to fumes or vapors may cause irritation of the nose and throat, and symptoms such as headache, dizziness, loss of coordination, and drowsiness.
FIRST AID – SKIN	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. Direct contact with hot tall oil pitch emulsion will cause severe thermal burns. Repeated or prolonged contact may cause dry skin, discomfort, irritation, chemical burns and dermatitis.
FIRST AID – EYE	Upon contact, flush with large amounts of cool, flowing water for at least 15 minutes, including under lids. Seek immediate medical attention. Hot product will cause severe thermal burns. Eye contact with tall oil pitch emulsion and fumes can cause moderate eye irritation, redness, chemical burns and itching. Eye exposures require immediate first aid to prevent damage to the eye.
FIRST AID – INGESTION	Do not induce vomiting unless medical personnel provide instructions to do so. Never provide anything by mouth to an unconscious person. Seek medical attention or contact poison control center immediately. Ingestion may result in poisoning, nausea, vomiting, diarrhea and restlessness. Seek immediate medical attention

INFORMATION FOR DOCTOR

Most Important symptoms and effects, both acute and delayed

- May cause skin irritation.
- May cause eye irritation.

Indications of any immediate medical attention and special treatment needed. Treat symptomatically.

5. FIRE FIGHTING MEASURES

CONDITIONS OF FLAMMABILITY	Toxic gases are produced in fire, such as smoke, fume, CO, CO ₂ .
EXTINGUISHING MEDIA	Small fire: carbon dioxide, dry chemical powder, appropriate foam, water spray or fog, non-combustible material such as dry sand or earth. Large fire: Fire fighting foam suitable for the situation.
SPECIAL HAZARDS OF PRODUCT	Fire may release toxic combustion products such as smoke, fume, CO, CO ₂ . If tank, rail car, or tanker truck is involved in fire, isolate for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. Shut off fuel to fire if possible to do so without hazard. Avoid flushing spilled product into sewers, streams, or other bodies of water.
PROTECTIVE EQUIPMENT FOR FIRE FIGHTING	A SCBA is recommended to limit exposures to combustion products when fighting fires.

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES	For small spills, soak up released emulsion with inert absorbent material, remove with shovels and place spilled material into a container. Contain large spills with inert materials. Avoid using combustive absorbers such as sawdust. Transfer liquids and sold material to suitable containers for recovery or disposal. Do not allow spills or cleaning runoff to enter drains, sewers, groundwater, drainage ditches or surface waters. Wear appropriate protective equipment as described in Section 8.
PERSONAL PRECAUTIONS	Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. Remove all potential ignition sources. Isolate the area of the spill and restrict access. Avoid breathing (vapor, mist, spray). Avoid all contact with skin, eyes, or clothing.
ENVIRONMENTAL PRECAUTIONS	Methods for containment can be to stop or reduce leak if safe to do so. Ventilate area to prevent the gas from accumulating, especially in confined spaces. Methods for clean-up/disposal of emulsion should be according to Federal, State, Provincial and Local regulations. Protect bodies of water by diking to prevent run off, absorbents or absorbent boom that does not react with spilled product. Place used absorbent into suitable, covered, labeled containers for disposal. Remove or recover liquid using pumps or vacuum equipment. Inform relevant authorities if the product has caused environmental pollution. Contact emergency services and manufacturer/supplier for advice.

REFERENCES TO OTHER SECTIONS

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment
See Section 13 for disposal information

7. HANDLING AND STORAGE


HANDLING	Handle with care and use appropriate control measures. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool, well-ventilated area. Avoid contact with skin, eyes, and clothing. Use additional precautions when handling hot material. Maintain employee exposure levels below established regulatory limits. Do not allow hot product to contact skin. Ensure adequate ventilation. Use all appropriate engineering controls and Personal Protective Equipment (PPE) described in Section 8. Wear protective gloves.
STORAGE	Store away from all ignition sources and open flames. Avoid freezing. This product is a mixture of water and tall oil pitch. Do not store above 190°F or below 40°F. Heating product above 190°F may cause water portion to boil which may result in an overflow of hot product from storage container. Store in cool and well-ventilated conditions. Keep away from food and drink. Consult appropriate Federal, State, and Provincial and Local authorities before reusing, recycling or disposing of empty containers or waste residues of this product.

INFORMATION ABOUT PROTECTION AGAINST EXPLOSION AND FIRE

Keep ignition sources away – Do not Smoke
Protect against electrostatic charges

SPECIFIC END USE(S): No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROL MEASURES	Use local exhaust or general dilution ventilation to maintain levels below exposure limits. Ensure that an emergency eye wash station and safety shower is located near the work area.
RESPIRATORY PROTECTION	Under ordinary conditions no respiratory protection is required. Wear a NIOSH approved respirator that is properly fitted and is in good condition when exposed to vapors above exposure limits.
HAND PROTECTION	Wearing protective gloves is recommended
EYE PROTECTION	Wear CSA/ANSI approved safety goggles when handling emulsion to prevent contact with eyes. A face shield may also be required to prevent contact with eyes and face.
BODY PROTECTION	Wear chemical resistant gloves (e.g. neoprene or butyl rubber) to prevent skin contact and thermally insulated gloves when handling hot product. Do not rely on barrier creams, in place of impervious gloves. Additional protection may be necessary to prevent skin contact including use of apron, arm covers, face shield or boots. Remove and launder clothing that is soiled with emulsion. Thoroughly wash hands and other exposed skin after exposure to emulsion.
PROTECTION DURING APPLICATION	

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
ODOUR & APPEARANCE	Sweetish, Beige to dark brown in colour
ODOR THRESHOLD (ppm)	N/A
SPECIFIC GRAVITY	1.02
VAPOR DENSITY (AIR = 1)	N/A
VAPOR PRESSURE 20 C	< 1 mm Hg @ 20°C
EVAPORATION RATE	N/A
BOILING POINT (°C)	N/D
AUTOIGNITION TEMP (°C)	N/A
FREEZING POINT	0°C (water phase)
pH	5-7
COEFFICIENT OF WATER/OIL DISTRIBUTION	N/A
SOLUBILITY IN WATER	Dispersible with water
VOC (g/l)	0
FLASH POINT (PMCC) (°C/F)	>288°C (Closed Cup)
EXPLOSION DATA – Sensitivity to Mechanical Impact	Not expected to present an explosion hazard due to mechanical impact.
EXPLOSION DATA – Sensitivity to Static Discharge	Not expected to present an explosion hazard due to static discharge.

10. STABILITY AND REACTIVITY

STABILITY	Stable under recommended storage conditions.
CONDITIONS TO AVOID	High temperatures, sources of heat, including direct sunlight, ignition, or open flame and avoid incompatible materials.
MATERIALS TO AVOID	Acids, bases, oxidizing agents such as nitrates, chlorates, peroxides. Emulsion is incompatible with oxidizing materials.
HAZARDOUS POLYMERIZATION	Reacts with strong oxidizing agents. Toxic fumes may be released if heated above the decomposition point
HAZARDOUS DECOMPOSITION PRODUCTS	When heated may liberate carbon monoxide, carbon dioxide, smoke, vapours, fumes.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects – Product	
Acute Toxicity	Not classified
LD50 and CL50 Data	Not available
Skin Corrosion/Irritation	Not classified
Serious Eye Damage/Irritation	Not classified
pH	5.0 (5.0 – 7.0) Acidic
Respiratory or Skin Sensitization	Not classified
Germ Cell Mutagenicity	Not classified
Teratogenicity	Not available
Carcinogenicity	Not classified
Specific Target Organ Toxicity (Repeated Exposure)	Not classified
Reproductive Toxicity	Not classified
Specific Target Organ Toxicity (Single Exposure)	Not classified
Aspiration Hazard	Not classified
Symptoms/Injuries After Inhalation	Prolonged exposure may cause irritation.
Symptoms/Injuries After Skin Contact	Prolonged exposure may cause skin irritation.
Symptoms/Injuries After Eye Contact	May cause irritation to eyes.
Symptoms/Injuries After Ingestion	Ingestion may cause adverse effects.
Chronic Symptoms	May cause damage to organs.
Information on Toxicological Effects – Ingredient(s)	(Alkylarylpolyglycol ether) (Trade Secret)
LD50 Oral Rat	< 2000 mg/kg

12. ECOLOGICAL INFORMATION

MOBILITY	Studies are not available.
PERSISTENCE / DEGRADABILITY	Not expected to be readily degradable. Not established.
BIO-ACCUMULATION	Not known to bioaccumulate. Not established.

RESULTS of PBT and vPvB Assessment
PBT: N/A
vPvB: N/A

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL	Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction. Recycle and reuse product, if possible. The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user.
CONTAINER DISPOSAL	Dispose of or empty recycle container through an approved waste management facility.

UNCLEANED PACKAGING

Recommendation: Disposal must be made according to official regulations

14. TRANSPORTATION INFORMATION

HAZARD LABEL	Not required
EXPORT	Not regulated
DOT CFR 172 101 DATA	Not regulated
UN PROPER SHIPPING NAME	Not regulated
UN CLASS	Not regulated
UN NUMBER	Not classified as a dangerous good
UN PACKAGING GROUP	Not regulated
FLASH POINT	Not applicable
HAZARDOUS MATERIAL	Data not available
MARINE POLLUTANT	No
SPECIFIC PRECAUTIONS FOR USER	Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures in sections 7 and 8
In Accordance with DOT	Not regulated for transport
IMDG	Not regulated for transport
IATA	Not regulated for transport
TDG	Not regulated for transport

15. REGULATORY INFORMATION

WHIMIS CLASSIFICATION: Class D, Division 2, Subdivision B – Toxic material causing other toxic effects.

CEPA STATUS (DSL)

This product has been classified in accordance with the hazard criteria of Controlled Products Regulations (CPR) and the MSDS contains all the information required by CPR.

Canada:	All components are in compliance with the Canadian environmental protection act and are present on the domestic substances list. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.
USA:	TSCA: All components of this material are on the US TSCA inventory or are exempt. OSHA: This material does not contain any hazardous components under OSHA regulation (29CFR 1910.1200). CERCLA: This material does not contain any components with a section 304 EHS RQ. SARA TITLE 111: Sec 302, No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

16. OTHER INFORMATION

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

Eye Irritant 2B	Serious eye damage/eye irritation Category 2B
STOT SE 2	Specific target organ toxicity (single exposure) Category 2
H320	Causes eye irritation
H371	May cause damage to organs

KEY	<p>NA: No applicable information found or available CAS#: Chemical Abstracts Service Number ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit STEL: Short Term Exposure Limit NTP: National Toxicology Program IARC: International Agency for Research on Cancer R: Risk S: Safety LD50: Lethal Dose 50% LC50: Lethal Concentration 50%</p>
PREPARED BY	CRC COATING TECHNOLOGIES INC.™
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Provided data is offered in good faith as typical values and not as a product specification. No warranty, either express or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable, however, each user should review these recommendations.