



INDUSTRIES 3R

MATERIAL SAFETY DATA SHEET

IDENTITY

Part Number: **3R 87118**
 Identity: Hybake oven chain lubricant
 Description: Hybake supreme

SUPPLIER

Industries 3R inc.
 55, route 116 Ouest
 Danville (Québec) J0A 1A0
 Tel: 819-839-2793
 Fax: 819-839-2797

INGREDIENTS AND HAZARDS

Hazardous Ingredients	#CAS	OSHA PEL	ACHIH TLV
Water	7732-18-5	None established	None established
Proprietary Polyalkylene Glycol	9038-95-3	None established	None established
Graphite	7782-42-5	5.0 mg/m ³	2.0 mg/m ³

HMIS

Health 2
Flammability 1
Reactivity 0
Personal Protection B

NFPA

Health 2
Flammability 1
Reactivity 0
Special Notice n/a

PHYSICAL/CHEMICAL DATA

Boiling Point: 212 °F (100 °C)
 Melting Point: 32 °F (0 °C)
 Specific Gravity (H₂O = 1): 1.1 g/ml
 Vapor Pressure (mm Hg): as water
 Vapor Density (Air = 1): as water
 Evaporation Rate (Butyl Acetate = 1): as water
 Solubility in Water: Dispersible
 Color: Black
 Odour: mild sweet
 Material State: Liquid

FIRE AND EXPLOSION DATA

Flash Point (Method Used): > 421 deg F (COC)

Flammable Limits: LEL = Not determined UEL = Not determined

Extinguishing Media: Apply foam for large fires. Use carbon dioxide or dry chemical for small fires.

Special Fire Fighting Procedures: Do not direct a stream of water into burning pools – this may cause frothing and increase fire intensity. Use self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: During a fire, oxides of nitrogen may be produced.

STABILITY AND REACTIVITY DATA

Stability: Stable.

Conditions to avoid: May exothermically decompose with evolution of volatiles at temperatures in excess of 550 °F (288 °C). **WARNING** – do not mix this product with nitriles or other nitrosating agents because a

nitrosamine may be formed. Nitrosamines may cause cancer.

Incompatibility (Materials to avoid): Strong bases at high temperatures, strong acids, oxidizing agents and materials reactive with hydroxyl compounds.

Hazardous decomposition or byproducts: Oxides of carbon and nitrogen

Hazardous polymerization: Will not occur.

HEALTH HAZARD INFORMATION

Route(s) of entry: **Inhalation:** No

Skin: No

Ingestion: No

Carcinogenicity: **NTP:** No

IARC Monographs: No

OSHA Regulated: No

Health Hazards (Acute and chronic):

Ingestion: No evidence of harmful effects

Inhalation: Short-term harmful effects are not expected from vapor generated at ambient temperature. See "Signs and Symptoms of Exposure" below.

Skin: Prolonged contact may cause reddening, itching, burning sensation, and possible drying and flaking of skin. No evidence of harmful effects from absorption.

Eye Contact: May cause irritation.

Signs and symptoms of exposure: Unlikely to be hazardous by inhalation unless present as an aerosol. Overexposure to vapor, aerosol, or mist generated by high temperature may result in eye, nose, throat and respiratory tract irritation.

Medical Conditions Generally aggravated by Exposure:

Existing dermatitis. Exposure to this material may decrease the oxygen-carrying capacity of the blood. Individuals with cardiovascular disease or impairment of the respiratory function may be at increased risk.

FIRST AID MEASURES

Ingestion: If patient is fully conscious, give two glasses of water. Do not induce vomiting. Seek medical attention.

Skin: Wash with soap and water.

Inhalation: Remove to fresh air.

Eyes: Immediately flush eyes with water for 15 minutes. Remove contact lenses if worn. Obtain medical attention.

Noted to Physician: Low toxicity by swallowing. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced.

ACCIDENTAL RELEASE MEASURES

Small spills could be flushed with large amounts of water. Larger spills should be collected for disposal.

HANDLING AND STORAGE

Keep container closed. Wash thoroughly after handling. Product on surfaces can cause slippery conditions.

Vapor, aerosol, or mist of the product and thermal degradation products generated at high temperature can be irritating and harmful if inhaled.

OTHER PRECAUTIONS

Where product is burned under conditions of relatively complete combustion, the major products are carbon dioxide and water vapor. Where material is subjected to overheating (thermal degradation) but does not burn, products can be such materials as organic acids (formic, acetic), aldehydes, esters, ketones, etc. These vapors or fumes can be highly irritating to the eyes, nose and throat. Therefore, special ventilation may be needed.

DISPOSAL CONSIDERATIONS

Dispose of in a manner which conforms to local, state and Federal regulations.

EXPOSURE CONTROLS/ PERSONAL PROTECTION

- Respiratory Protection:** None expected to be necessary at low temperatures. See section “Other Precautions”.
- Ventilation:** General room ventilation is satisfactory for storage and handling at room temperature. Where overexposure to elevated temperatures occur, special local ventilation is needed. See Section “Signs and symptoms of exposure” and “Other Precautions”.
- Protective Gloves:** Polyvinyl chloride coated
- Eye Protection:** Goggles
- Other Protective Clothing or Equipment:** Eye bath and safety shower. Protective clothing as required.
- Work/ Hygienic Practices:** Air-dry contaminated clothing in a well-ventilated area, then launder before reusing. Clean spills promptly – they may present a slippage hazard. Wash thoroughly before eating, drinking, using restroom, smoking, or applying cosmetics.

ADDITIONAL INFORMATION

The information, details, dimensions and values indicated are to our best knowledge. We recommend testing according to local conditions. The specifications are subject to change without notice.