

TIGG LMRA
MATERIAL SAFETY DATA SHEET

SECTION I. IDENTIFICATION

SUPPLIERS NAME: TIGG CORPORATION
EMERGENCY TELEPHONE: (724) 703-3020
ADDRESS: 1 WILLOW AVENUE; OAKDALE, PA 15071
CHEMICAL NAME AND SYNONYMS: CARBON IMPREGNATED WITH SULFUR
FORMULA: C, S₂

SECTION II. INGREDIENTS/SUMMARY OF HAZARDS

NONHAZARDOUS COMPONENTS ARE LISTED AT 3% OR GREATER; ACUTE HAZARDS ARE LISTED WHEN PRESENT AT 1% OR GREATER AND CHRONIC HAZARDS ARE LISTED WHEN PRESENT AT 0.01% OR GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE.

ACTIVATED CARBON	CAS #:	7440-44-0
	% BY WEIGHT:	74-87%
	ORAL LD₅₀:	>10g/Kg (RAT)
	TLV:	ACGIH: 10 mg/M ³ (TOTAL) OSHA: N/A OTHER: N/A

SULFUR	CAS #:	23550-45-0
	% BY WEIGHT:	13%
	ORAL LD₅₀:	
	TLV:	ACGIH: OSHA: OTHER:

WARNING STATEMENTS:

EMERGENCY OVERVIEW: BLACK PARTICULATE SOLID, PELLET OR POWDER. CONTACT MAY CAUSE EYE IRRITATION. DUST MAY BE SLIGHTLY IRRITATING TO EYES AND RESPIRATORY TRACT.

CAUTION! WET ACTIVATED CARBON REMOVES OXYGEN FROM AIR CAUSING A SEVERE HAZARD TO WORKERS INSIDE CARBON VESSELS AND ENCLOSED OR CONFINED SPACES. BEFORE ENTERING SUCH AN AREA, SAMPLING AND WORK PROCEDURES FOR LOW OXYGEN LEVELS SHOULD BE TAKEN TO ENSURE AMPLE OXYGEN AVAILABILITY, OBSERVING ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

SEE SECTION VI FOR COMPLETE HEALTH HAZARD DATA

NATIONAL FIRE PROTECTION ASSOCIATION RATING HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

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KEY		NFPA	HMIS
= NFPA/HMIS			
4 = EXTREME/SEVERE	HEALTH		
3 = HIGH/SERIOUS			
2 = MODERATE	FIRE		
1 = SLIGHT			
0 = MINIMUM	REACTIVITY		

SARA TITLE III HAZARD CLASSIFICATION

IMMEDIATE (ACUTE) HEALTH

DELAYED (CHRONIC) HEALTH

FIRE

**SUDDEN RELEASE OF
PRESSURE**

REACTIVE

SECTION III. PHYSICAL DATA

BOILING POINT (°C) 8721°F, 4827°C (approx)

VAPOR PRESSURE (mmHg) N/A

VAPOR DENSITY (AIR =1) N/A

SOLUBILITY IN WATER: Insoluble

SPECIFIC GRAVITY (H₂O = 1) .2 - .75

PERCENT VOLATILE BY VOLUME (%) N/A

pH (AQUEOUS SOLUTIONS):

BULK DENSITY:

APPEARANCE AND ODOR: Black, odorless; pelletized

FOR ADDITIONAL TECHNICAL INFORMATION, CALL (724) 703-3020

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (°C): N/A

FLAMMABLE LIMITS IN AIR:

AUTOIGNITION TEMPERATURE (°F): 500-800

EXTINGUISHING MEDIA: Dry chemical, water fog, foam

SPECIAL FIRE FIGHTING PROCEDURES: Wear positive pressure self-contained breathing apparatus if fire occurs in enclosed space. Oxygen starved fires may result in the release of carbon monoxide. Fires may produce acid gases including sulfurous or sulfuric acid.

UNUSUAL FIRE AND EXPLOSION Avoid producing suspensions of dust during handling, and avoid

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HAZARDS: exposure of suspensions to sources of ignition. Suspensions of –40 mesh powdered activated carbon may explode if exposed to strong sources of ignition.

SECTION V. REACTIVITY DATA

STABILITY: Avoid contact with strong oxidizing chemicals, such as ozone, perchloric acid, permanganate, sodium chlorite, etc.

CONDITIONS TO AVOID: Exposure to hydrocarbons and vegetable oils may cause slow oxidation until ignition point is reached. –Contact should be avoided.

MATERIALS TO AVOID: Strong oxidizing materials

HAZARDOUS DECOMPOSITION PRODUCTS: Oxygen starved combustion may yield carbon monoxide. Sulfurous acid or sulfuric acid may result as a result of fires.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI. HEALTH HAZARD DATA/FIRST AID PROCEDURES

GENERAL INFORMATION:

EXPOSURE LIMITS: ACGIH TLV:
OSHA PEL:

TOXICOLOGY DATA: ORAL LD50 (RATS):
DERMAL LD50 (RABBITS):
INHALATION LC50 (RATS):
SKIN EFFECTS (RABBITS):
EYE EFFECTS (RABBITS):

CARCINOGENICITY:

EFFECTS OF SINGLE EXPOSURE: **SWALLOWING:** Sulfurous or Sulfuric Acids may be evolved by contact with stomach acids.
SKIN ABSORPTION: Not absorbed by skin.
INHALATION: No toxic effect caused by dust. As with any dust, excessive exposure should be avoided. OSHA "nuisance dust" limitations should be observed.
SKIN CONTACT: Constant prolonged exposure may cause dryness or chapping of exposed skin.
EYE CONTACT: Carbon particles may cause physical irritation if not removed.

EFFECTS OF REPEATED EXPOSURE:

OTHER EFFECTS OF EXPOSURE: None

EXISTING MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: Contacts with open wounds, burns and mucous membranes should be avoided.

EMERGENCY FIRST AID PROCEDURE: **SWALLOWING:** Drink copious amounts of water and seek medical attention.
SKIN: Wash with soap and water to avoid skin drying and chapping.
INHALATION: N/A
EYES: Irrigate with water immediately. Repeat as needed to flush particle from eye. If irritation persists, consult medical personnel.

NOTES TO PHYSICIAN:

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SECTION VII. PRECAUTIONS FOR SAFE HANDLING OR USE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Shovel and sweep material into appropriate container. If necessary wash area with water.

WASTE DISPOSAL METHOD: Reactivation, landfill or incineration, in accordance with applicable regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep dry; wet carbon will adsorb oxygen and may reduce oxygen levels in confined spaces to dangerous levels. Adequate ventilation and precautions should be employed whenever closed tanks, receptacles or other enclosed spaces containing carbon are accessed. Suspensions of dust should be avoided and exposure of suspensions of dust to sources of ignition should be avoided.

SECTION VIII. SPECIAL PROTECTION INFORMATION

PROTECTIVE EQUIPMENT SHOULD BE USED DURING THE FOLLOWING PROCEDURES:

RESPIRATORY PROTECTION: Approved "nuisance dust" dust masks should be worn in dust exposure areas.

VENTILATION: Local exhaust recommended to minimize dust exposure.

PROTECTIVE CLOTHING: Protective gloves can be worn.

EYE PROTECTION: Safety glasses with side shields should be worn and eye wash capabilities should be available.

SECTION IX. REGULATORY STATUS

TSCA INVENTORY:

TRANSPORTATION STATUS:

SARA TITLE III

**SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE LIST:
SECTION 313 TOXIC CHEMICALS:**

**REPORTABLE QUANTITY (RQ),
UNDER U.S. EPA CERCLA:**

**FEDERAL RCRA HAZARDOUS
WASTE:**

STATES RIGHT-TO-KNOW LAWS:

SECTION X. REFERENCES

NONE

SECTION XI. DATE

Prepared 8/25/04
Revised 4/21/08

While this information and recommendations set forth herein are believed to be accurate as to the date hereof, TIGG Corporation makes no warranty with respect hereto and disclaims all liability from reliance thereon.