



Filtration

Parker Hannifin Corporation
Racor Division
P. O. Box 3208, 3400 Finch Rd.
Modesto, CA 95353 USA
Telephone 800/344-3268, 209/521-7860
FAX 209/529-3278
<http://www.parker.com/racor>

MATERIAL SAFETY DATA SHEET

PRODUCT: Diesel Biocide

Revision Date: 12/3/2003

PART NUMBER(S):

ADT 2116 (16 oz.)

ADT 2201 (1 gal.)

ADT 2405 (5 gal.)

ADT 2555 (55 gal.)

24 Hour Emergency Telephone: (800) 535-5053

International: (352) 323-3500

SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: **RACOR DIESEL BIOCID**

NFPA 704M/HMIS RATING: 3/3 HEALTH 2/2 FLAMMABILITY 1/1 REACTIVITY 0 OTHER

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

SECTION 2: COMPOSITION / INGREDIENT INFORMATION

Our hazard evaluation has identified the following chemical ingredient(s) as hazardous. One or more is being claimed as a trade secret under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult Section 15 for the nature of the hazard(s).

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by volume</u>	<u>TLV</u>
2-(Thiocyanomethylthio) benzothiazole	21564-17-0	2.5%	N/A
Methylene bis(thiocyanate)	6317-8-6	2.5%	N/A
Diethylene glycol monomethyl ether	111-775	85%	N/A
Heavy aromatic naphtha	64742-94-5	>1%	100 ppm

The remainder of the components comprise proprietary information.

SECTION 3: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

DANGER: Corrosive: Harmful if swallowed, inhaled, or absorbed through the skin. Causes severe eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Keep away from heat and open flame. Keep container closed when not in use. Avoid breathing of vapor. Use with adequate ventilation. Do not take internally.

Empty containers may contain residual product. Do not reuse container.

PRIMARY ROUTE(S) OF EXPOSURE: Eye, Skin, Inhalation

EYE CONTACT: Corrosive to the eyes with possible permanent damage depending on the length of exposure and on the first aid action given.

SKIN CONTACT: Corrosive to the skin with possible permanent damage depending on the length of exposure and on the first aid action given.

INGESTION: Can be harmful.

INHALATION: Inhalation of vapor may be harmful.

SYMPTOMS OF EXPOSURE: A review of available data does not identify any symptoms from exposure not previously mentioned.



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AGGRAVATION OF EXISTING CONDITIONS: A review of available data does not identify any symptoms from exposure not previously mentioned.

SECTION 4: FIRST AID INFORMATION

EYES: Immediately flush for at least 15 minutes while holding eyelids open. Call a physician at once.

SKIN: Immediately flush with water for at least 15 minutes. For a large splash, flood body under a shower. Call a physician at once.

INGESTION: Do not induce vomiting. Give water. Call a physician at once.

INHALATION: Remove to fresh air. Treat symptoms. Call a physician at once.

NOTE TO PHYSICIAN: Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

SECTION 5: FIRE FIGHTING

FLASH POINT: 151 DEGREES F (PMCC) ASTM D-93

EXTINGUISHING MEDIA: Based on the NFPA guide, use dry chemical, foam, carbon dioxide or other extinguishing agent suitable for Class B fires. Use water to cool containers exposed to fire. For large fires, use water spray or fog, thoroughly drenching the burning material.

UNUSUAL FIRE AND EXPLOSION HAZARD: Containers exposed in a fire should be cooled with water to prevent vapor pressure buildup leading to a rupture.

SECTION 6: ACCIDENTAL RELEASE MEASURES

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER: (800) 535-5053 (INFOTRAC)

SPILL CONTROL AND RECOVERY:

Small liquid spills: Contain with absorbent material. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Refer to CERCLA in Section 15.



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Large liquid spills: Dike to prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCLA in Section 15.

SECTION 7: HANDLING AND STORAGE

Storage: Keep container closed when not in use.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: If it is possible to generate significant levels of vapors or mists, a NIOSH APPROVED or equivalent respirator is recommended.

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a positive pressure, self-contained breathing apparatus is recommended.

Ventilation: General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors or mists may be released.

PROTECTIVE EQUIPMENT: Wear impermeable gloves, boots, apron and a face shield with chemical splash goggles. Examples of impermeable gloves available on the market are neoprene, nitrile, PVC, natural rubber, viton and butyl (compatibility studies have not been performed). A level C suit is recommended if gross exposure is possible.

The availability of an eye wash fountain and safety shower is recommended.

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

HUMAN EXPOSURE CHARACTERIZATION: Based on Racor's recommended product application and our recommended personal protective equipment, the potential human exposure is: MODERATE.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

COLOR:	Clear to slightly hazy, amber	
FORM:	Liquid	
ODOR:	Hydrocarbon	
DENSITY @ 25°C:	7.6-7.4 lbs./gal.	
pH:	11.0-12.0	ASTM E-70
SOLUBILITY IN WATER:	Dispersible in water	
SPECIFIC GRAVITY:	0.91-0.93 @ 60 Degrees F	
VISCOSITY:	106 cts/97 cps/489 SUS @ 60 Degrees F	ASTM D-445
POUR POINT:	Less than -22 Degrees F	ASTM D-97
FLASH POINT:	151 Degrees F (PMCC)	ASTM D-93
PERCENT VOLATILE:	2% @ 75 Degrees F	
VAPOR PRESSURE:	284mm/Hg @ 131 Degrees F	ASTM D-323

Note: These physical properties are typical values for this product.

SECTION 10: STABILITY AND REACTIVITY

INCOMPATIBILITY: Avoid contact with strong oxidizers (e.g., Chlorine, peroxides, chromates, nitric acid, perchlorates, concentrated oxygen, permanganates) which can generate heat, fires, explosions and the release of toxic fumes.

THERMAL DECOMPOSITION PRODUCTS: In the event of combustion CO, CO₂, NO_x, may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICITY STUDIES: Toxicity studies have not been conducted on this product. Expected to be toxic by oral ingestion, non-toxic by dermal exposure and highly toxic by inhalation of mists.

IRRITANT EFFECTS: Corrosive to skin and eyes.

SENSITIZATION EFFECTS: Sensitizer.

CARCINOGENIC POTENTIAL: Not listed in any of OSHA Standard, Section 1910.1200 sources as carcinogenic mutagenicity testing and 52-week rat studies on the active ingredients show no evidence of carcinogenic effects.

TARGET ORGAN EFFECTS: Eyes, skin, and mucous membranes.



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OTHER HEALTH EFFECTS: Inhalation toxicity was conducted with an 80% technical grade concentration of the active ingredient with a four hour exposure under misting conditions. Normal use of this product under non-misting conditions should not present an occupational hazard.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Do not discharge into lakes, streams, ponds or public waters. Do not contaminate water by cleaning of equipment or disposal of wastes.

AQUATIC DATA: 96-hour static acute LC50 to Bluegill Sunfish=1.09 ppm

95% Confidence Limit of 96 hour LC50= 0.93 -1.24 ppm

TOXICITY RATING: Toxic

96-Hour static acute LC50 to Rainbow Trout = 1.17 ppm

TOXICITY RATING: Toxic

48 hour static acute LC50 to Daphnia magna=1.5 mg/L

48 hour no observed effect concentration is less than 1.3 mg/L based on no mortality or abnormal effects.

OTHER STUDIES

8 day dietary LC50- Bobwhite Quail=Greater than 5,000 ppm

8 day dietary LC50- Mallard Ducks= Greater than 5,000 ppm

If released into the environment, see CERCLA in Section 15.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL: If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D. Can be incinerated in accordance with local, state and federal regulations.

Pesticide wastes are considered acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional office for guidance.



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METAL CONTAINERS: Triple rinse (or equivalent), puncture and dispose of in a sanitary landfill, or by other procedures approved by state an local authorities.

PLASTIC CONTAINERS: Triple rinse (or equivalent), puncture and dispose of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SECTION 14: TRANSPORTATION INFORMATION

PROPER SHIPPING NAME/HAZARD CLASS MAY VARY BY PACKAGING, PROPERTIES, AND MODE OF TRANSPORTATION. THIS PRODUCT IS REGULATED IN THE U.S. ONLY WHEN SHIPPED IN CONTAINERS EXCEEDING 119 GALLONS OR 882 LBS.CAPACITY OR WHEN THE PACKAGE EXCEEDS THE REPORTABLE QUANTITY. TYPICAL PROPER SHIPPING NAMES FOR THIS PRODUCT ARE:

ALL TRANSPORTATION MODES:
(UNLESS SPECIFIED BELOW)

Corrosive liquid, toxic, n.o.s.
(ERG Guide #60)

AIR TRANSPORTATION:
(IATA/ICAO)

Corrosive liquid, toxic, n.o.s.
(2-(Thiocyanomethylthio) benzothiazole, Methylene bis(thiocyanate))

MARINE TRANSPORTATION:
(IMO/IMDG)

Corrosive liquid, toxic, n.o.s.
(2-(Thiocyanomethylthio) benzothiazole, Methylene bis(thiocyanate))
MARINE POLLUTANT

UN/ID NO:
HAZARD CLASS-PRIMARY:
HAZARD CLASS-SECONDARY:
PACKING GROUP:
IATA PACKING INSTRUCTION:
IATA CARGO AIRCRAFT LIMIT:
FLASH POINT:
TECHNICAL NAME(S):
RQ LBS (PER PACKAGE):
RQ COMPONENT (S):

UN2922
8 - Corrosive Liquid
6.1 - Poison (Toxic Substance)
III
CARGO: 820 (CARGO AIRCRAFT ONLY)
>60 Liters (max. net quantity per package)
151° F 66.1° C
AROMATIC HYDROCARBONS
None
None



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SECTION 15: REGULATORY INFORMATION

The following regulations apply to this product:

FEDERAL REGULATIONS:

OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

Based on our hazard evaluation, this product is hazardous and applicable regulations are listed below.

CERCLA/SUPERFUND, 40 CFR 117, 302: Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (Title III) SECTIONS 302, 311, 312 AND 313.

Section 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

Sections 311 and 312 MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370): Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

XX Immediate (acute) health hazard

-- Delayed (chronic) health hazard

XX Fire hazard

-- Sudden release of pressure hazard

-- Reactive hazard

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SECTION 313 LIST OF TOXIC CHEMICALS (40 CFR 372): This product does not contain ingredients on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA): The active ingredient is regulated under FIFRA and exempted under TSCA. All the inert ingredients are on the Inventory List.

FEDERAL INSECTICIDE, FUNGICIDE AND RODENTICIDE ACT (FIFRA), 7 USC 135: EPA Reg. # 1448-171-47099. This product is registered for use as a microorganism control chemical. In all cases follow instructions on the product label.

REGISTERED WITH THE U.S. EPA, OFFICE OF FUEL AND FUEL ADDITIVE REGISTRATION, as a fuel additive.



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RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D:
Consult Section 13 for RCRA classification.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116 (Formerly Sec. 311): None of the ingredients are specifically listed.

CLEAN AIR ACT, Sect. 111 (40 CFR 60), Sect. 112 (40 CFR 61, 1990 Amendments), Sect. 611 (40 CFR 82), CLASS I and II Ozone depleting substances: This product does not contain ingredients covered by the Clean Air Act.

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

This product does not contain any chemicals which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS:

This product does not contain ingredients listed on the Michigan Critical Materials Register.

STATE RIGHT TO KNOW LAWS:

This product is regulated under FIFRA and is exempt from Right To Know Laws.

INTERNATIONAL REGULATIONS:

This product is a registered biocide and is exempt from WHMIS under The House Of Commons of Canada Bill C-70.

SECTION 16: OTHER INFORMATION

RACOR PART NUMBERS:

16 oz. ADT 2116

1 gal. ADT 2201

5 gal. ADT 2405

55 gal. ADT 2555

SECTION 17: RISK CHARACTERIZATION

Due to our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

The human risk is MODERATE.

The environmental risk is LOW.



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Any use inconsistent with Racor's recommendations may affect our risk characterization. Our customer service representative will assist you to determine if your product application is consistent with our recommendations.

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.