



## SAFETY DATA SHEET

### •SECTION 1 - MANUFACTURER AND PRODUCT IDENTIFICATION•

WISCONSIN PHARMACAL COMPANY  
1 Pharmacal Way  
P.O. Box 198  
Jackson, WI 53037

EMERGENCY NUMBER: 1-800-255-3924  
(24 HOURS)  
INFORMATION NUMBER: 1-800-558-6614  
(BUSINESS HOURS)

PRODUCT NAME: Coleman 100% DEET Repellent  
PRODUCT CODE: 743, 748, 7434, 7436

EPA REG. NO.: 79533-2


HMIS: Health Hazard: 1  
Fire Hazard: 1  
Reactivity: 0

PREPARED BY: J Buteyn

DATE UPDATED: 04-26-2016

Personal Protective Equipment: B

### •SECTION 2 - HAZARDS IDENTIFICATION•

Signal Word(s)	Warning	
Hazard Statements	H302	Harmful if swallowed
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H412	Harmful to aquatic life with long lasting effects
Precautionary Statements	P270	Do not eat, drink, or smoke when using this product
	P273	Avoid release to the environment
	P280	Wear protective gloves / protective clothing / eye protection / face protection
	P302+P352	If on skin, wash with plenty of soap and water.
	P305+P351+P338	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easily done. Continue rinsing.
	P337+P313	If eye irritation occurs, get medical attention or advice.
	P362	Take off contaminated clothing and wash before reuse.
	P501	Dispose of contents / container in accordance with local/regional/national/international regulation for hazardous wastes.

### •SECTION 3 – COMPOSITION INFORMATION ON INGREDIENTS•

Chemical name	CAS Number	Formula % (w/w)	GHS Classification
N,N-Diethyl-m-toluamide (DEET)	134-62-3	98.11 %	Acute Toxicity, Category 4 (H302) Skin Irritant, Category 2 (H315)
DEET impurities			Eye Irritant, Category 2A (H319) Aquatic Acute, Category 3 (H412) Aquatic Chronic, Category 3 (H412)
N,N-Diethyl-p-toluamide	2728-04-3	0.63 %	
N,N-Diethyl-o-toluamide	2728-05-4	0.63 %	
N,N-Diethyl-benzamide	1696-17-9	0.63 %	

**•SECTION 4 - FIRST AID PROCEDURES•**

General advice:	First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.
If inhaled:	Keep patient calm, remove to fresh air, and seek medical attention.
If on skin:	Wash affected areas with water while removing contaminated clothing. Seek medical attention.
If in eyes:	Seek medical attention. Wash affected eyes for at least 15 minutes under running water with eyelids held open.
If swallowed:	Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

**•SECTION 5 – FIRE-FIGHTING MEASURES•**

Flash Point:	144°C (291°F)
Suitable extinguishing media:	Water spray, carbon dioxide, dry chemical, foam
Unsuitable extinguishing media for safety reasons:	Organic compounds
Hazards during fire-fighting:	Combustion will produce carbon monoxide and carbon dioxide gas, and oxides of nitrogen.
Protective equipment for fire-fighting:	Wear a self-contained breathing apparatus and protective clothing. Normal fire fighting procedures may be followed.
Special flammability Hazards:	None.
Impact Sensitivity:	Product is not explosive when subjected to mechanical impact.

**•SECTION 6 - ACCIDENTAL RELEASE MEASURES•**

Personal precautions:	Use personal protective clothing. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Isolate area and exclude unprotected and unnecessary personnel. Leather shoes that may have been saturated must be discarded.
Environmental precautions:	Notify proper authorities. Contain contaminated water/firefighting water. Do not discharge into waterways or sewer systems without proper authorization.
Cleanup:	Contain with absorbent material such as sand, vermiculite or clay, and dispose into chemical waste container. Dispose contents and container according to local/regional/national regulations.

**•SECTION 7 - HANDLING AND STORAGE•**

General Handling advice:	Breathing of vapor or mists must be avoided. Avoid contact with eyes or skin.
General Storage advice:	Store in tightly closed original containers in a cool, dry and well-ventilated place. Keep opened containers tightly closed and upright to avoid spills.

**•SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION•**

The following applies to Industrial Settings only:

Advice on system design:	Ensure adequate ventilation. Read and follow label precautionary statements.
General safety and hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Immediately remove all contaminated clothing. Wash contaminated clothing before reuse. Hands and/or face should be washed before breaks and at the end of the shift.

<u>Personal protective equipment</u>	
Body protection:	Body protection must be chosen based on level of activity and exposure.
Eye protection:	Face shield and safety glasses.
Hand protection:	Chemical resistant protective gloves
Respiratory protection:	Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator.

**•SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES•**

Form:	Liquid
Odor:	Mild characteristic odor
Color:	Off-white to slight yellow
pH value:	No data
Melting range:	No data
Boiling point:	285°C (545°F)
Flash Point:	144°C (291°F)
Vapor pressure:	Negligible
Specific Gravity:	0.992-0.999
Vapor density:	6.7 (air=1)
Partitioning coefficient n- octanol/water [log (P <sub>ow</sub> )]	2.4
Viscosity, dynamic:	20 cps @ 25°C
Solubility in water:	Immiscible with water
Auto ignition temperature:	>200°C

**•SECTION 10 – STABILITY AND REACTIVITY•**

Conditions to avoid:	Extreme temperature. Pressurized container may explode.
Substances to avoid:	Strong acids, strong bases, reducing agents, strong oxidizing agents.
Hazardous reactions:	The product is stable if stored and handled as prescribed or indicated.
Decomposition products:	Conventional decomposition products if burned: carbon monoxide, carbon dioxide, and oxides of nitrogen.
Hazardous polymerization:	Will not occur.

**•SECTION 11 – TOXICOLOGICAL INFORMATION•**

<b>Acute toxicity</b>	<u>Oral</u>	<u>Dermal</u>	<u>Inhalation</u>
	LD50 rat 2000 mg/kg	LD 50 rat 5,000 mg/kg	LC50 rat 5.95 g/m <sup>3</sup>
<b>Irritation / corrosion</b>	<u>Skin</u>	<u>Eye:</u>	
:	Rabbit Slightly irritating	Rabbit Moderately irritating	
<b>Sensitization</b>	Skin: No		
<b>Mutagenicity:</b>	The substance was not mutagenic in a bacterial test system. The substance was not mutagenic in a test with mammalian cells.		
<b>Reproductive or Developmental Toxicity:</b>	There were no effects on reproduction in a 2-generation study in rats. No teratogenic effects observed as decreased fetal body weight in rats		
<b>Carcinogenicity:</b>	2-year rat and 18-month mouse studies showed no treatment-related tumors at the highest dose tested. No component of this product at concentrations above 0.1% is identified on the lists of IARC, NTP, OSHA, or ACGIH as being carcinogens.		

Specific target organ toxicity:	No data available.
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**•SECTION 12 – ECOLOGICAL INFORMATION•**

<b>Fish</b>	Acute	<i>Pimphales promelas</i> (Fathead minnow) <i>Oncorhynchus mykiss</i> (Rainbow trout)	LC50: 110 mg/L (96 hr) LC50: 97 mg/L (96 hr)
<b>Aquatic invertebrates</b>		<i>Daphnia magna</i> (Water flea)	EC50: 75 ppm (48 hr)
<b>Microorganisms</b>		No data	
<b>Degradability / Persistence</b>	Readily biodegradable : 83.8% in 28 days [OECD 310B]		
<b>Bioaccumulation potential:</b>	Not expected to bioaccumulate.		
<b>Mobility:</b>	Expected to have high soil mobility. It absorbs weakly to most soil types. Expected to have minimal mobility in the aquatic environment.		

**•SECTION 13 – DISPOSAL CONSIDERATIONS•**

Waste disposal of substance:	Dispose of in a RCRA-licensed facility. Do not discharge into drains/surface waters/groundwater.
Container disposal:	Dispose of in a licensed facility. Empty containers or liners may retain product residues: Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

**•SECTION 14 - TRANSPORT INFORMATION•**

	Hazard class	Packing group	ID number	Hazard label	Proper shipping name
Land transport USDOT:	Not regulated	NA			
Sea transport IMDG	Not regulated	NA			
Air transport IATA/ICAO	Not regulated	NA			

**•SECTION 15 - REGULATORY INFORMATION•**

**Federal Regulations**

Registration status:

TSCA, US	All components of this product are listed
CERCLA	None
SARA 302 Components	None
SARA 311/312 Hazards	None
SARA 313 Components	None

**State regulations**

State RTK	CAS Number	Chemical name
MA, NJ, PA	134-62-3	DEET
CA Proposition 65	None	

**•SECTION 16 - OTHER INFORMATION•**

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide emergency responders an on-the-spot alert to the hazards of a material and their severity. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

**KEY/LEGEND:** EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration.

**LITERATURE REFERENCES:** None

**DISCLAIMER:** This (M)SDS provides a brief summary of the physical and chemical characteristics of this product to guide usage and handling of the material. It is not a comprehensive document on worldwide hazard communication regulations. It is compiled from sources considered valid and accurate. Wisconsin Pharmacal assumes no responsibility for injury or damage resulting from misuse of the product.

<b>1</b>	<b>HEALTH HAZARD</b>
<b>1</b>	<b>FIRE HAZARD</b>
<b>0</b>	<b>REACTIVITY</b>
<b>B</b>	<b>PPE</b>

