

SAFETY DATA SHEET

122000014180

Muskol Liquid Pump Spray 30% DEET

Version 1.0

Revision Date 02/26/2016

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Product Name: Muskol Liquid Pump Spray 30% DEET
SDS Number: 122000014180

Use : Insect-repellent

Company

Bayer HealthCare, LLC
Consumer Health
100 Bayer Boulevard PO Box 915
Whippany, NJ 07981-0915
UNITED STATES OF AMERICA
(800) 743-5423

In case of emergency: (800) 331-4536
Chemtrec: (800) 424-9300
BAYER INFORMATION PHONE:(800) 331-4536 OR (800) 743-5423

2. HAZARDS IDENTIFICATION**Emergency Overview**

Colour: colourless, to, yellowish **Form:** liquid **Odour:** characteristic.

GHS Classification:

Flammable liquids : Category 2
Skin irritation : Category 2
Eye irritation : Category 2

GHS Label element:

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

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Precautionary statements**: Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P273 Avoid release to the environment.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Weight percent	Components	CAS-No.
30%	N,N-Diethyl-m-toluamide	134-62-3
55%	Ethanol	64-17-5

4. FIRST AID MEASURES

General advice: No hazards which require special first aid measures.

If inhaled: If symptoms persist, call a physician.

In case of skin contact: If skin irritation persists, call a physician.

In case of eye contact: Rinse with water. If eye irritation persists, consult a specialist.

If swallowed: Consult a physician if necessary.

Contact Number: Use the Bayer Emergency Number in Section 1

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: High volume water jet

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Specific hazards during firefighting: Fire may cause the release of: Carbon monoxide (CO)
Carbon dioxide (CO₂)

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

Methods for cleaning up: Cover spilled product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labeled, closable containers.

Additional advice: Keep away from/remove sources of ignition.

Further Accidental Release Notes Keep away from/remove sources of ignition.

7. HANDLING AND STORAGE**Handling:**

Do not breathe vapours or spray mist. Use adequate ventilation.

Keep away from open flames, hot surfaces and sources of ignition. Take measures to prevent the build up of electrostatic charge.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ethanol (64-17-5)**

US. ACGIH Threshold Limit Values

Short Term Exposure Limit (STEL): 1,000 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Recommended exposure limit (REL): 1,000 ppm, 1,900 mg/m³

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Permissible exposure limit: 1,000 ppm, 1,900 mg/m³

Respiratory protection:

Recommended Filter type: Organic vapor with prefilter

None required for consumer use of this product.

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Hand protection:

Chemically resistant gloves.

None required for consumer use of this product.

Eye protection:

Safety glasses

None required for consumer use of this product.

Other protective measures:

Wear suitable protective equipment.

Please consult label for end-user requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Colour:	colourless, to, yellowish
Odour:	characteristic
Odour Threshold:	No applicable information is available
Melting point:	No applicable information is available
Boiling point/boiling range:	No applicable information is available
Density:	0.9977 g/cm ³ at 77 °F (25 °C) at 1,013 hPa
Bulk density:	No applicable information is available
Vapour pressure:	3,109 hPa at 69.8 °F (21 °C)
Viscosity, dynamic:	No applicable information is available
Viscosity, kinematic:	No applicable information is available
Flow time:	No applicable information is available
Surface tension:	No applicable information is available
Miscibility with water:	No applicable information is available
Water solubility:	No applicable information is available
pH:	No applicable information is available
Relative density:	No applicable information is available
Partition coefficient:	No applicable information is available
Solubility(ies):	No applicable information is available
Flash point:	No applicable information is available
Flammability (solid, gas):	No applicable information is available
Ignition temperature:	No applicable information is available
Explosion limits:	No applicable information is available

10. STABILITY AND REACTIVITY**Conditions to avoid:** No data available**Materials to avoid:** Oxidizing agents

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Hazardous reactions: None known.

Thermal decomposition:

No data available

Hazardous decomposition products:

Carbon monoxide (CO), Carbon dioxide (CO₂)

Oxidizing properties:

No statements available.

Impact sensitivity:

No data available

11. TOXICOLOGICAL INFORMATION

Other information on toxicity:

Ethanol

Breathing of the fumes may lead to narcotic symptoms.

If inhaled: headaches, Vomiting, Nausea

After absorption of large quantities hypotension, coma, Unconsciousness, respiratory paralysis

Acute oral toxicity:

N,N-Diethyl-m-toluamide

LD₅₀ Mouse: 1,170 mg/kg

Harmful if swallowed.

Ethanol

LD₅₀ Rat: 10,470 mg/kg

The substance or mixture has no acute oral toxicity

Method: OECD 401

Acute inhalation toxicity:

Ethanol

LC₅₀ Rat: 124.7 mg/l, 4 h

ca. 65360 ppm, 4 h

The substance or mixture has no acute inhalation toxicity

Method: OECD 403

Acute dermal toxicity:

Ethanol

LD₅₀ Rabbit: 15,800 mg/kg

The substance or mixture has no acute dermal toxicity

Skin irritation:

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N,N-Diethyl-m-toluamide

Classification: Causes skin irritation.

Ethanol

Rabbit

Result: No skin irritation

Method: OECD 404

Eye irritation:

N,N-Diethyl-m-toluamide

Classification: Causes serious eye irritation.

Ethanol

Rabbit

Result: Causes eye irritation.

Method: OECD 405

Sensitisation:

Ethanol

Skin sensitization guinea pig

Result: Does not cause skin sensitisation.

Method: Local lymph node test (LLNA)

Genotoxicity in vitro:

Ethanol

Ames test Salmonella typhimurium

Result: Negative.

Method: OECD 471

Mouse lymphoma assay

Result: Negative.

Method: OECD 476

Genotoxicity in vivo:

Ethanol

Chromosome aberration test in vivo, Mouse

Result: ambiguous

Method: OECD 478

Micronucleus test, Mouse

Result: Negative.

Method: OECD 474

Carcinogenicity:

Ethanol

Result: Animal testing did not show any carcinogenic effects.

Reproductive toxicity:

Ethanol

Application Route: Oral

Mouse: NOAEL: 15%

Result: Animal testing did not show any effects on fertility.

Method: OECD Test Guideline 416

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Teratogenicity:

Ethanol

Application Route: inhalation

Rat: NOAEL: 38 mg/l

Result: Animal studies have produced no evidence of harmful effects on development.

Method: OECD 414

Carcinogenicity:

No Carcinogenic substances as defined by IARC, NTP and/or OSHA

STOT - single exposure:

No data available

STOT - repeated exposure:No data available

12. ECOLOGICAL INFORMATION**General advice:**

Do not allow to enter surface waters or groundwater.

Toxicity to fish:

Ethanol

LC50 8,140 mg/l

Test species: Leuciscus idus (Golden orfe) Duration of test: 48 h

Toxicity to daphnia and other aquatic invertebrates:

Ethanol

EC50 9,268 - 14,221 mg/l

Test species: Daphnia magna (Water flea)

Toxicity to algae:

Ethanol

Toxic limit concentration 5,000 mg/l

tested on: Scenedesmus quadricauda (Green algae)

Toxicity to bacteria:

Ethanol

Toxic limit concentration 6,500 mg/l

tested on: Pseudomonas putida

Biodegradability:

Ethanol

rapidly biodegradable

Bioaccumulation:

Ethanol

Bioaccumulation is unlikely.

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13. DISPOSAL CONSIDERATIONS

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

14. TRANSPORT INFORMATION

Please note that limited quantities, consumer commodity regulations or other exemptions may apply.

Land transport (CFR)

Proper shipping name: ETHANOL SOLUTION
Hazard Class or Division: 3
UN/NA Number: UN
Packaging group: II
Hazard Label(s): Flammable Liquid

US Sea transport (IMDG)

Proper shipping name: ETHANOL SOLUTION
Hazard Class or Division: 3
UN number: UN
Packaging group: II
Hazard Label(s): FLAMMABLE LIQUIDS

US Air transport (ICAO / IATA cargo aircraft only)

Proper shipping name: ETHANOL SOLUTION
Hazard Class or Division: 3
UN/ID Number: UN
Packaging group: II
Hazard Label(s): FLAMMABLE LIQUIDS

US Air transport (ICAO / IATA passenger and cargo aircraft)

Proper shipping name: ETHANOL SOLUTION
Hazard Class or Division: 3
UN/ID Number: UN
Packaging group: II
Hazard Label(s): FLAMMABLE LIQUIDS

International IATA

UN Number: 1170
Description of the goods: ETHANOL SOLUTION
Class: 3
Packaging group: II
Dangerous goods labels: 3
Environmentally hazardous: no

International IMDG

UN Number: 1170
Description of the goods: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

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Class	3
Packaging group	II
IMDG-Labels	3
EmS Number	F-E
Marine pollutant	no

15. REGULATORY INFORMATION

Other regulations: No statements available.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

Components

None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

Components

None

US. EPA CERCLA Hazardous Substances (40 CFR 302)Components

None

California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

OSHA Hazcom Standard Rating Not subject to OSHA

16. OTHER INFORMATION**Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.