

Safety Data Sheet: Dead Sure II Aerosol

Supersedes Date 06/29/2009

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Dead Sure II Aerosol
Recommended use Insecticide

Product Code 5414
Chemical nature Emulsion of petroleum distillate and aqueous solution

Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color White

Physical State Liquid

Odor Petroleum distillates

GHS

Classification

Physical Hazards

Gases under pressure

Compressed Gas

Health Hazard

Aspiration Toxicity

Category 2

Acute Inhalation Toxicity - Dusts and Mists

Category 4

Specific target organ systemic toxicity (single exposure)

Category 3

Specific target organ systemic toxicity (repeated exposure)

Category 2

Other hazards

None

Labeling

Signal Word

DANGER



Hazard Statements

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

H305 - May be harmful if swallowed and enters airways

H373 - May cause damage to organs through prolonged or repeated exposure

H280 - Contains gas under pressure; may explode if heated

Precautionary Statements

P210 - Keep away from heat, sparks, open flames or hot surfaces.

P251 - Pressurized container: Do not pierce or burn, even after use

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product

P260 - Do not breathe mist or vapor

P271 - Use in a well-ventilated area.

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P342 + P311 - If experiencing respiratory symptoms, call a physician

P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.

P403 - Store in a well-ventilated place

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

P501 - Dispose of contents and container in accordance with applicable regulations.

1 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Butane	106-97-8	10-30
Petroleum distillates, hydrotreated light	64742-47-8	5-10
Propane	74-98-6	5-10
Piperonyl butoxide	51-03-6	0.1-1
Permethrin	52645-53-1	0.1-1

Pyrethrin	8003-34-7	0.1-1
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4. FIRST AID MEASURES

General advice	Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, or gas.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention immediately.
Skin Contact	Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician or Poison Control Centre immediately.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately.
Ingestion	If swallowed, call a poison control center or doctor immediately. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.
Notes to physician	Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

5. FIRE-FIGHTING MEASURES

Flash Point	> 201 °F / > 94 °C	Method	Seta closed cup
Flammability Limits in Air % Propellant.		Upper	9.5
Suitable Extinguishing Media		Lower	0.5
Water spray. Foam. Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Specific hazards arising from the chemical			
Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions.			
Protective Equipment and Precautions for Firefighters			
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
Aerosol Level (NFPA 30B) -	1		
NFPA	Health 1	Flammability 1	Instability 0
HMIS	Health 1	Flammability 1	Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas.
Storage	Keep away from heat and sources of ignition. Store in original container. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.
Storage Temperature	Minimum 30 °F / -1 °C Maximum 120 °F / 49 °C
Storage Conditions	Indoor X Outdoor Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Butane	STEL: 1000 ppm	No data available	TWA: 800 ppm TWA: 1900 mg/m ³
Petroleum distillates, hydrotreated light	5 mg/m ³ as oil mist	10 mg/m ³ as oil mist	No data available
Propane	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³
Piperonyl butoxide	No data available	No data available	No data available
Permethrin	No data available	No data available	No data available
Pyrethrin	TWA: 5 mg/m ³	TWA: 5 mg/m ³	IDLH: 5000 mg/m ³ TWA: 5 mg/m ³

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
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Personal Protective Equipment**Eye/Face Protection****Skin Protection****Respiratory Protection**

Safety glasses with side-shields.

For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations

Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Slight Viscous
Color	White	Odor	Petroleum distillates
Odor Threshold	Not applicable	Appearance	Opaque
pH	6	Specific Gravity	0.85
Evaporation Rate	28.1 (Butyl acetate=1)	Percent Volatile (Volume)	99.3
VOC Content (%)	28.2	VOC Content (g/L)	240
Vapor Pressure	240.9 mmHg @ 70°F	Vapor Density	1.8 (Air = 1.0)
Solubility	Completely soluble	n-Octanol/Water Partition	No data available
Melting Point/Range	No data available	Decomposition Temperature	No data available
Boiling Point/Range	212 °F / 100 °C	Flammability (solid, gas)	No data available
Flash Point	> 201 °F / > 94 °C	Method	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %	Propellant.	Upper 9.5 Lower 0.5	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	None known
Incompatible Products	Strong oxidizing agents, Acids, Bases.
Hazardous Decomposition Products	Carbon oxides
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION**Product Information**

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	
Gas	No information available
Mist	No information available
Vapor	No information available

Principle Route of Exposure Skin contact, Eye contact, Inhalation.**Primary Routes of Entry** Inhalation**Acute Effects**

Eyes Causes eye irritation.
Skin May cause skin irritation.

Inhalation May cause irritation of respiratory tract. May cause central nervous system depression. Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

Chronic Toxicity Prolonged exposure may cause chronic effects. Liver injury may occur.**Target Organ Effects** Central nervous system, Cardiovascular system, Heart, Liver, Respiratory system.**Aggravated Medical Conditions** Respiratory disorders, Skin disorders, Liver disorders, Neurological disorders, Heart disease.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Butane	no data available	no data available	= 658 g/m ³ (Rat) 4 h	no data available	no data available
Petroleum distillates, hydrotreated light	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h	no data available	no data available
Propane	no data available	no data available	= 658 mg/L (Rat) 4 h	no data available	no data available
Piperonyl butoxide	no data available	no data available	no data available	no data available	no data available
Permethrin	no data available	no data available	no data available	no data available	no data available
Pyrethrin	no data available	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Butane	no data available	no data available	no data available	no data available	CNS, heart
Petroleum distillates, hydrotreated light	no data available	no data available	no data available	no data available	respiratory system, liver, kidney, CNS
Propane	no data available	no data available	no data available	no data available	CNS, heart
Piperonyl butoxide	no data available	no data available	no data available	no data available	CNS, lungs, liver
Permethrin	no data available	no data available	no data available	no data available	no data available
Pyrethrin	no data available	no data available	no data available	no data available	CNS, skin, respiratory system

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum distillates, hydrotreated light	not applicable	not applicable	not applicable	not applicable	not applicable
Propane	not applicable	not applicable	not applicable	not applicable	not applicable
Piperonyl butoxide	not applicable	not applicable	not applicable	not applicable	not applicable
Permethrin	not applicable	not applicable	not applicable	not applicable	not applicable
Pyrethrin	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Butane	no data available	no data available	no data available	no data available	2.89
Petroleum distillates, hydrotreated light	no data available	LC50 = 45 mg/L Pimephales promelas 96 h LC50 = 2.2 mg/L Lepomis macrochirus 96 h LC50 = 2.4 mg/L Oncorhynchus mykiss 96 h	no data available	LC50= 4720 mg/L 96 h	N/A
Propane	no data available	no data available	no data available	no data available	2.3
Piperonyl butoxide	no data available	no data available	no data available	no data available	N/A
Permethrin	no data available	LC50 0.008 - 0.03 mg/L Pimephales promelas 96 h LC50 0.001 - 0.009 mg/L Pimephales promelas 96 h LC50 = 0.015 mg/L Cyprinus carpio 96 h LC50 0.0052 - 0.0077 mg/L Cyprinus carpio 96 h LC50 = 0.00079 mg/L Lepomis macrochirus 96 h LC50 = 0.0108 mg/L Lepomis macrochirus 96 h LC50 0.00188 - 0.00336 mg/L Lepomis macrochirus 96 h LC50 0.00049 - 0.00097 mg/L Oncorhynchus mykiss 96 h LC50 0.0017 - 0.0048 mg/L Oncorhynchus mykiss 96 h	no data available	no data available	6.5
Pyrethrin	no data available	LC50 = 0.054 mg/L Oncorhynchus mykiss 96 h LC50 0.0031 - 0.0038 mg/L Oncorhynchus mykiss 96 h LC50 0.02 - 0.03 mg/L Oncorhynchus mykiss 96 h LC50 0.0322 - 0.0472 mg/L Lepomis macrochirus 96 h LC50 0.003 - 0.0046 mg/L Lepomis macrochirus 96 h LC50 = 0.074 mg/L Lepomis macrochirus 96 h LC50 0.0425 - 0.121 mg/L Pimephales promelas 96 h LC50 0.224 - 0.458 mg/L Pimephales promelas 96 h	no data available	no data available	N/A

**Persistence and Degradability
Bioaccumulation**

No information available.

No information available.

Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide 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.

Container Disposal Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Consumer Commodity
Hazard Class ORM-D
Description Consumer Commodity, ORM-D

TDG

Hazard Class 2.2
UN-No UN1950

ICAO

UN-No UN1950
Proper Shipping Name Aerosols
Hazard Class 2.2
Shipping Description UN1950, Aerosols, 2.2

IATA

UN-No UN1950
Proper Shipping Name Aerosols
Hazard Class 2.2
Shipping Description UN1950, Aerosols, 2.2

IMDG/IMO

Proper Shipping Name Aerosols
Hazard Class 2
UN-No UN1950
EmS No. F-D, S-U
Shipping Description UN1950, Aerosols,2

15. REGULATORY INFORMATION

Inventories

TSCA Complies

DSL Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Piperonyl butoxide	51-03-6	0.1-1	1.0
Permethrin	52645-53-1	0.1-1	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	No	Yes	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Butane	Not applicable	Not applicable
Petroleum distillates, hydrotreated light	Not applicable	Not applicable
Propane	Not applicable	Not applicable
Piperonyl butoxide	Not applicable	Not applicable
Permethrin	Not applicable	Not applicable
Pyrethrin	1 lb	Not applicable

16. OTHER INFORMATION

Prepared By	Rachael Mohochi
Supersedes Date	06/29/2009
Issuing Date	08/15/2013
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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