# Safety Data Sheet



## **SECTION 1: Product and company identification**

Product name : d'Bug
Use of the substance/mixture : Insecticide
Product code : 0848

Company : Total Solutions P.O. Box 240014

Milwaukee, WI 53224 - USA

T (414) 354-6417

Emergency number : Chemtec: (800) 424-9300

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification (GHS-US)

Flam. Liq. 3 H226 Skin Sens. 1 H317

Full text of H-phrases: see section 16

### 2.2. Label elements

### **GHS-US labeling**

Hazard pictograms (GHS-US)





302 GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : Flammable liquid and vapor

May cause an allergic skin reaction

Precautionary statements (GHS-US) : Keep away from heat, open flames, sparks. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment Use explosion-proof electrical, lighting equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Avoid breathing mist, spray

Contaminated work clothing must not be allowed out of the workplace

Wear eye protection, protective clothing, protective gloves

If on skin: Wash with plenty of soap and water.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower

Specific treatment (see First Aid measures on this label) If skin irritation or rash occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse

In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish

Store in a well-ventilated place. Keep cool

Dispose of contents/container to comply with local/regional/national/international regulations.

## 2.3. Other hazards

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

### 3.2. Mixture

Date of issue: 5/3/2016 Revision date: 03/20/2015 Version: 1.0 P GHS SDS Page 1 of 5

# Safety Data Sheet



Name	Product identifier	%	Classification (GHS-US)
(+)-limonene	(CAS No) 5989-27-5	3-7	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304

### **SECTION 4: First aid measures**

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove the victim into fresh air. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water. If skin

irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue

rinsing

First-aid measures after ingestion : Rinse mouth with water. Do NOT induce vomiting. Immediately call a poison center or

doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely irritating. Symptoms/injuries after ingestion : Gastrointestinal complaints. Nausea. Vomiting.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable extinguishing media : All extinguishing media allowed.

5.2. Special hazards arising from the substance or mixture

Reactivity : Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed

containers. Take account of environmentally hazardous firefighting water.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves. Protective clothing.

Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

No additional information available

### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling

: Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Date of issue: 5/3/2016 Revision date: 03/20/2015 Version: 1.0 P GHS SDS Page 2 of 5

# Safety Data Sheet



Hygiene measures : Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the

workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be

followed.

Storage conditions : Keep container closed when not in use. Incompatible materials : Heat sources. Sources of ignition.

Storage area : Meet the legal requirements. Store in a cool area. Store in a dry area. Keep container in a well-

ventilated place.

Special rules on packaging : meet the legal requirements. Keep only in original container.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Personal protective equipment : Safety glasses. Gloves. Protective clothing. Use appropriate personal protective equipment when





: No data available





## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Milky white liquid.
Odor : Citrus scent

Odor threshold : No data available pH : No data available Melting point : No data available Freezing point : No data available

Boiling point : No data available
Flash point : 129 °F Closed Cup
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available

Relative density : No data available Relative vapor density at 20 °C : No data available

Specific gravity / density : 0.993 g/ml

Solubility Emulsifies in water. Log Pow : No data available Log Kow No data available No data available Auto-ignition temperature Decomposition temperature No data available No data available Viscosity No data available Viscosity, kinematic Viscosity, dynamic : No data available

VOC content : < 6 %

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Vapor pressure

Upon combustion: CO and CO2 are formed.

 Date of issue: 5/3/2016
 Revision date: 03/20/2015
 Version: 1.0
 P GHS SDS
 Page 3 of 5

# Safety Data Sheet



### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

(+)-limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across)
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)
ATE CLP (oral)	4400.000 mg/kg body weight

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

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(+	)-II	ımoı	าene	: (598	39-2	/- <b>5</b> )

IARC group 3 - Not Classifiable

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely irritating.
Symptoms/injuries after ingestion : Gastrointestinal complaints. Nausea. Vomiting.

### **SECTION 12: Ecological information**

## 12.1. Toxicity

(+)-limonene (5989-27-5)	
LC50 fish 1	720 μg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 1	0.36 mg/l (48 h; Daphnia magna; GLP)
LC50 fish 2	702 μg/l (96 h; Pimephales promelas)
Threshold limit algae 1	150 mg/l (72 h; Desmodesmus subspicatus; GLP)
Threshold limit algae 2	2.62 mg/l (72 h; Desmodesmus subspicatus)

## 12.2. Persistence and degradability

(+)-limonene (5989-27-5)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.
ThOD	3.29 g O ☐/g substance

### 12.3. Bioaccumulative potential

(+)-limonene (5989-27-5)	
BCF fish 1	864.8 - 1022 (Pisces; Fresh weight)
Log Pow	4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 37 °C)

Date of issue: 5/3/2016 Revision date: 03/20/2015 Version: 1.0 P GHS SDS Page 4 of 5

# Safety Data Sheet



(+)-limonene (5989-27-5)	
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

#### Additional information

Other information : When transported by ground in non-bulk containers, this product utilizes the exception found under

49 CFR 173.150.

#### **ADR**

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### **SECTION 15: Regulatory information**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

### **SECTION 16: Other information**

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

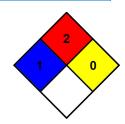
### Full text of H-phrases:

Asp. Tox. 1	Aspiration hazard Category 1
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.

Date of issue: 5/3/2016 Revision date: 03/20/2015 Version: 1.0 P GHS SDS Page 5 of 5