

Clarke Flit 13.3

Effective Date: 1 June 2015

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#### SECTION 1. Identification of the Substance/Mixture and of the Company

1.1 Product Identifier

Formulation Identifier: Clarke Flit 13.3 EPA Registration Number: 4-350-8329

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant identified uses: Insecticide

Uses advised against: See product label for use restrictions

1.3 Details of the Supplier of the Safety Data Sheet

Clarke Mosquito Control Products, Inc.

675 Sidwell Court

St. Charles, IL 60174 U.S.A.

+1 (630) 894-2000

Email: Clarke@clarke.com

## 1.4 Emergency Telephone Number

24-Hour Medical Emergency: POISON CONTROL Toll-free (800) 214 - 7753

24-Hour Transportation Emergency: INFOTRAC (800) 535-5053

## **SECTION 2. Hazards identification**

United States (US)

According to OSHA 29 CFR 1910.1200 HCS (2012)

#### 2.1 Classification of the Substance or Mixture

3 Flammable liquid Category 3 Mutagenicity: Category 1B

Carcinogenicity: 1B

Pictogram:





Signal Word: DANGER

Hazard Statements: Flammable liquid and vapor

May cause genetic defects

May cause cancer

Precautionary Statements:

PREVENTION: Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilation/lighting equipment



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Use only non-sparking tools

Take precautionary measures against static discharge Wear protective gloves/protecting clothing/eye protection

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

with water/shower.

IF exposed or concerned: Get medical advice/attention

In case of fire: Use Water fog, foam for extinction

STORAGE Store locked up in a well ventilated place. Keep cool.

DISPOSAL Dispose of contents/container to in accordance with local/national regulations.

#### 3.1 Other Hazards Not Classifiable Under OSHA 2012 HCS

No additional information available

#### **SECTION 3.** Composition/Information on Ingredients

#### Mixture

## 3.1 Components

Substance Name	CAS No.	Concentration wt%	Classification	
Solvent naphtha (petroleum) light aromatic	64742-95-6	79.2	Flammable liquid	2
, , ,			Mutagenicity	1B
			Carcinogenicity	1B
			Aspiration Tox.	1
Permethrin	52645-53-1	13.3	Not classified	
Naphtha heavy aromatic	64742-94-5	6	Skin Irritant	2
			Aspiration Tox.	1

### **SECTION 4. First Aid Measures**

#### 4.1 Description of First Aid Measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

(show the label where possible)

First-aid after skin contact: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.

First-aid after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid after ingestion: Rinse mouth. Do Not induce vomiting. Obtain emergency medical attention.

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed.

Symptoms/Injuries: May cause genetic defects. May cause cancer

#### 4.3 Indication of Immediate Medical Attention and Special Treatment

No additional information available

## **SECTION 5. Fire-Fighting Measures**

#### 5.1 Extinguishing Media

Suitable Extinguishing Media: Foam, Dry Powder, carbon dioxide, Water spray, Sand.

Unsuitable Extinguishing Media: Do not use heavy water stream.

### 5.2 Special Hazards Arising From the Substance or Mixture



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Fire Hazards: Highly flammable liquid and vapor

Explosion hazard: May form flammable/explosive vapor-air mixture.

5.3 Special Protective Equipment and Precautions for Fire-Fighters

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

chemical fire. Avoid fire-fighting water to enter environment.

Special Procedures: 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 Precautions: Remove ignition sources. Use special care to avoid static electrical charges.

6.1.1 For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel

6.1.2. For emergency Responders

Protective Equipment: Equip cleanup crew with proper protection

Emergency procedures: Ventilate area

#### 6.2 Environmental Precautions:

Prevent product from entering into drains and waterways. Collect and dispose of this material and its container in accordance with national and regional regulations. If the product has contaminated surface water, inform the appropriate authorities.

### 6.3 Methods and Material for Containment and Cleaning Up

Clean Up Methods: Soak up spills with inert solids such as clay or diatomaceous earth as soon as possible.

Collect spillage. Store away from other materials.

6.4 Reference to other sections See Heading 8. Exposure controls and personal protection.

## **SECTION 7. Handling and Storage**

## 7.1 Precautions for Safe Handling

Additional hazards when processed: Keep away from ignition sources

Hygiene Measures: Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapors. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Eliminate all ignition sources if safe to do.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed.

Ground/bond container and receiving equipment.

Storage conditions: Store in original container. Keep in fireproof place. Keep container tightly closed.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Heat sources.

### **SECTION 8. Exposure Controls / Personal Protection**

## 8.1 Control Parameters

No additional information available



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8.2 Exposure controls

Personal protective equipment: Avoid all unnecessary exposure

Hand protection: Wear protective gloves.

Eye Protection: Chemical goggles or safety glasses

Respiratory Protection: Wear approved mask.

Other information: When using, do not eat, drink, or smoke.

## **SECTION 9. Physical and Chemical Properties**

## 9.1 Information on Basic Physical and Chemical Properties

Appearance: Liquid

Color Yellow to brown
Odor: Mild solvent
Odor Threshold: Not Available
pH: 5.0 - 6.0
Melting Point: Not determined

Melting Point:

Freezing Point:

Initial Boiling Point:

Flash Point:

Evaporation Rate:

Flammability:

Explosion limits [U/L]:

Not determined

Not determined

Not determined

Not determined

Not applicable

No data available

Vapor Density: >1 (Air=1)
Relative density 0.91

Specific Gravity No information Solubility: No data available Log Pow No data available Log Kow No data available Partition Coefficient: Not determined Auto-Ignition Temperature: Not applicable Viscosity, kinematic: Not determined Viscosity, dynamic: Not determined Decomposition Temperature: Not available **Explosive Properties:** No data available Oxidizing Properties: Not available Explosive limits No data available

## **SECTION 10. Stability and Reactivity**

#### 10.1 Reactivity

No additional information available

## 10.2 Chemical Stability

Stable under normal conditions



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### 10.3 Possibility of Hazardous Reactions

Not established

## 10.4 Conditions to avoid

Extreme high or low temperatures. Open flames.

### 10.5 Incompatible materials

Avoid contact with strong acids, and strong bases

#### 10.6 Hazardous decomposition products

Carbon monoxide. Carbon dioxide. May release flammable gases.

## **SECTION 11. Toxicological information**

## 11.1 Information on Toxicological Effects

Acute Toxicity: Not classified

Solvent naphtha (petroleum), light aromatic (64742-95-6)		
LD50 oral rat	8400 mg/kg	
Naphtha, heavy aromatic (64742-94-5)		
LD50 oral rat	> 5000 mg/kg (rat)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)	
LC50 inhalation rat (mg/l	> 5 mg/l/4h (Rat)	
Permethrin (52645-53-1)		
LD50 oral rat	> 383 mg/kg (Rat)	
LD50 dermal rat	4000 mg/kg (Rat)	
LC50 inhalation ratmg/l	> 5 mg/l (Rat)	

Skin Corrosion/Irritation: Not classified, pH: 5-6
Serious Eye Damage/Irritation: Not classified, pH: 5-6

Respiratory or skin Sensitization: Not classified

Germ Cell Mutagenicity May cause genetic defects

Carcinogenicity May cause cancer

(Permethrin 52645-53-1) IARC group 3- Not classifiable

Reproductive Effects: Not classified STOT – Single exposure Not classified STOT – Repeated exposure Not classified

## **SECTION 12. Ecological Information**

## 12.1 Toxicity

Naphtha, heavy aromatic (64742-94-5)		
LC50 fish 1	2.1-4.2 mg/l (96 hr; Lepomis macrochirus; Fresh water)	
EC50 Daphnia 1	0.95 mg/l (48 h; <i>Daphnia magna</i> )	
LC50 fish 2	2.34 mg/l (96h; Oncorhynchus mykiss)	
Threshold limit algae 1	1 mg/l (72h; Skeletonema costatum; Growth)	
Permethrin (52645-53-1)		
LC50 fish 1	0.0025 mg/l 96h; Salmo gairdneri (Oncorhynchus mykiss)	



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EC50 Daphnia 1	0.00043 mg/l (48h; Daphnia magna; Enzyme effect)
LC50 fish 2	0.016 mg/l (96h; Pimephales promelas)
EC50 Daphnia 2	0.290 mg/l (24; <i>Lymnaea</i> sp.)

### 12.2 Persistence and Degradability

Flit 13.3	Not established
Solvent naphtha (petroleum), light aromatic (64742-95-6)	Not established
Naphtha, heavy aromatic (64742-94-5)	Not readily biodegradable in water

## 12.3 Bioaccumulative potential

Flit 13.3 Not established

Solvent naphtha (petroleum), light aromatic (64742-95-6)		
Log Pow	2.1 - 6	
Bioaccumulative potential	Not established	
Naphtha, heavy aromatic (64742-94-5)		
Log Pow	2.9-6.1	
Bioaccumulative potential	Bioaccumable	
Permethrin (52615-53-1)		
BCF fish 1	560 Salmo gairdneri (Oncorhynchus mykiss)	
BCF fish 2	480 (Cyprinodon variegatus)	
BCF other aquatic organisms 1	0.1 mg/l (>24 h; Algae)	
BCF aquatic organisms 2	1900 (Ostredae)	
Log Pow	3.48 – 6.5	
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5)	

## 12.4 Mobility in soil

Permethrin (52645-53-1)	
Ecology - soil	No information

## **SECTION 13. Disposal Considerations**

## 13.1 Waste Treatment and Disposal methods

Waste disposal recommendations; Dispose in a safe manner in accordance with local regulations

Additional information: Handle empty containers with care because residual vapors are Flammable.

Ecology – waste materials: Avoid release to the environment.

## SECTION 14. Transport Information



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14.1 DOT (US) 49 CFR

UN Number UN 1993 Hazard Class: 3 Packing group III

Proper shipping name Flammable Liquids, N.O.S. (Petroleum Distillates)

14.2 IMDG (Vessel)

UN Number: UN 1993

Hazard Class: 3 Packing Group: III

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (Petroleum Distillates)

Marine Pollutant: Yes

14.3 ICAO/IATA (Air transport)

UN Number: UN 1993 Hazard Class: 3 Packing Group: III

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (Petroleum Distillates)

Environmental Hazard: Ye

#### **SECTION 15. Regulatory Information**

<u>FIFRA Information</u>: This chemical is a pesticide product regulated by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information for safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Signal word: WARNING

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear goggles or safety glasses. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### **Other US Federal Regulations**

SARA Title III – Section 302: None

SARA Title III Section 313 Toxic Chemical Release Reporting: Permethrin, 52645-53-1

CERCLA RQ: None

OSHA HAZARD COMMUNICATION STANDARD: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### U.S. California Proposition 65: Not listed

STATE RIGHT-TO-KNOW: National, state, provincial or local emergency planning, community right-to-know or other laws, regulations or ordinances may be applicable--consult applicable national, state, provincial or local laws.

#### **SECTION 16. Other Information**

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources we believe to be reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared as is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

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