



## MATERIAL SAFETY DATA SHEET

### Klash 20ULV

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SAUDI ARABIA

#### 1. CHEMICAL IDENTIFICATION

Product Name : **KLASH 20 ULV**  
Active Ingredient : Deltamethrin  
Chemical Name(IUPAC): (S)- $\alpha$ -cyano-3-phenoxybenzyl (1R, 3R)-3-(2, 2-dibromovinyl)-2, 2-dimethylcyclopropanecarboxylate  
Chemical Class : Pyrethroid (Synthetic)

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Material	Proportions (% w/w)
Deltamethrin	2.40
Organic solvents	97.60

##### Use:

Used as an insecticide for the control of insect pests in agriculture and public health programmes.

#### 3. HAZARD IDENTIFICATION

**Signs of Poisoning:** Acute exposure effects in humans include headaches, dizziness, fatigue, nausea and anorexia.

**Primary Routes of Entry:** Skin contact and absorption. Vapor and mist inhalation.

**Effects of single overexposures:**

**Skin Absorption:** May cause skin irritation and facial skin sensations. If such effects occurs it may last for 2 to 24 hours.

**Inhalation:** Harmful if inhaled.



**Eyes:** Irritant. May cause irreversible eye damage.

**Ingestion:** May be fatal if swallowed.

## 4. FIRST AID MEASURES

### Emergency and First aid Procedures

#### Swallowing:

Do not induce vomiting. Call a physician or poison control center. Do not give anything by mouth to an unconscious person.

#### Skin:

Wash affected area with plenty of soap and water. Remove contaminated clothing. Launder contaminated clothing separately. Get medical attention. Apply an oil-based cream to relief from skin sensation.

#### Inhalation:

Remove victim to fresh air. If not breathing administer artificial respiration. Avoid unprotected mouth to mouth resuscitation. GET MEDICAL ATTENTION.

#### Eye:

Hold eyelids open and flush with a steady stream of water for at least 15 minutes. GET MEDICAL ATTENTION.

## 5. FIRE FIGHTING MEASURES

### Fire and Explosion Hazards:

Flash Point 49°C

Combustible liquid. Keep fire exposed containers cool by spraying with water.

### Extinguishing Media:

For small fires, use foam, carbon dioxide or dry powder extinguishant. For large fires, use foam or water-fog; avoid use of water jet. Contain run-off water with for example, temporary earth barriers.

### Fire Fighting Instructions:

Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire



extinguishing systems are preferred to prevent environmental damage from excessive water run off.

**Fire Fighting Equipment:**

Self-contained breathing apparatus with full face piece.

## 6. ACCIDENTIAL RELEASE MEASURES

Contain spill and absorb with sand, earth or other noncombustible absorbent material. Prevent from entering drains, waterway or sewers. Collect in sealed open top containers for disposal. Generously cover the contaminated areas with common, household detergent brush and small amounts of water, work the detergent into the remaining spilled material forming a slurry. Collect slurry in sealed open top container for disposal. This material is water pollutant and should be prevented from drainage systems and bodies of water.

**Disposal:**

Triple rinse containers, add rinsate to the spray tank, then offer container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.

Waste disposal should be carried out by industrial incineration or burial at a site approved by local authorities.

## 7. HANDLING AND STORAGE

Combustible liquid

Causes eye irritation.

Keep out of Reach of Children

Use only in a well-ventilated area. Do not reuse empty containers. Keep the container closed when not in use. Keep away from food, feed and drinking water. Store in a well ventilated, dry place away from heat and other sources of ignition. Keep from freezing.

## 8. EXPOSURE CONTROLS / PERSONNAL PROTECTION

**Engineering Controls:**

Natural ventilation only required when handling the concentrate. A local exhaust should be used in confined areas to keep the level of solvent within acceptable limits.

**Personnel Protection:**



Eye Protection : Safety glasses or goggles  
Clothing : Long sleeved shirt and long pants, shoes plus socks  
Gloves : Chemical resistant gloves  
Respirator : All pesticide handlers must wear a respiratory protection device when working

**User Safety Recommendations:**

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

Appearance : Clear, light yellow liquid free of visible impurities.  
Odour : Slightly aromatic  
Boiling Point : Not available  
Melting point : Not applicable  
Vapor pressure : Not available  
Density : 0.0.8484 Kg/L  
Solubility in water : Not soluble

## 10. STABILITY AND REACTIVITY

**Stability:**

Stable at room temperature.

**Incompatibility:**

Strong oxidizing agents. Acids and alkaline materials

**Hazardous polymerization:**

Will not occur.

**Conditions to avoid:**

Keep away from heat. Keep away from sources of ignition: No smoking.

**Hazardous Decomposition Products:**

Thermal decomposition products are toxic and may include hydrocarbons ammonia, organic and acid halides, oxides of carbon, nitrogen and sulphur.



## 11. TOXICOLOGICAL INFORMATION

### Toxicology Data (active ingredient):

Acute Oral LD <sub>50</sub> (rat)	: 430 mg/kg
Acute Inhalation (4 h rat)	: 2.7 mg/L
Eye Irritation (rabbit)	: Mild irritant
Dermal sensitization	: Sensitizer for Guinea Pig

**Mutagenicity:** Non-mutagenic in mice, rats and rabbits.

**Reproductive effect:** None

**Carcinogenicity:** Not carcinogenic.

**Tetratogenicity:** Not teratogenic to rats or rabbits

## 12. ECOLOGICAL INFORMATION

- Highly toxic to bees.

## 13. DISPOSAL CONSIDERATION

Pesticide wastes are toxic. Do not reuse product containers. Dispose of product containers, waste containers and residues according to local health and environmental regulations.

## 14. TRANSPORT INFORMATION

Proper Shipping Name:	Pesticide, Liquid, Toxic
UN number	UN2903
Class	6.1
Packing Group	II
Marine Pollutant	Yes

## 15. REGULATORY INFORMATION.

### SARA Title III



## 16.16. OTHER INFORMATION

Buyer assumes all responsibility for safety and use not in accordance with the product label instructions.