

		<b>MATERIAL SAFETY DATA SHEET</b> (As per Schedule 9, Rule 17 of the Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 Amendment 2003)	
CONFIDOR SL 200			
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<p>1. CHEMICAL IDENTITY :</p> <p>1.1 PRODUCT NAME / TRADE NAME : CONFIDOR SL 200</p> <p>1.2 CHEMICAL CLASSIFICATION : Nitroguanidines</p> <p>1.3 CHEMICAL NAME : 1- ( 6 - chloro -3 pyridil methyl) – N - -Nitroimidazolidin -2 - ylideneamine - Triazole - 1- yl) – 2 - butanone.</p> <p>1.4 SYNONYMS : Imidacloprid, Gaucho, Admire, Merit.</p> <p>1.5 FORMULA : C<sub>9</sub> H<sub>10</sub>Cl N<sub>5</sub>O<sub>2</sub> M.W.: 255.66</p> <p>1.6 C.A.S. NO. : 105827-78 -9</p> <p>1.7 U.N. NO. : Not dangerous goods</p> <p>1.8 REGULATED IDENTIFICATION :</p> <p>1.8.1 SHIPPING NAME : Pesticide liquid, 200 SL Imidacloprid. CODES/ LABEL Not dangerous goods, Risk Phrase(s) R22 Harmful if swallowed. R36/38 Irritating to eyes and skin. R52 Harmful to aquatic organisms. WHO-classification: III (Slightly hazardous) Water contamination class: WGK 1 slightly (Germany) water endangering</p> <p>1.8.2 HAZCHEM NO : 3 X 1.8.3 HAZARDOUS WASTE ID NO : 29 CAS No 1.9 HAZARDOUS INGREDIENTS : Imidacloprid 105827-78 - 9 Dimethyl sulfoxide 67 – 68 - 5 N – Methyl 2 pyrrolidone 872 – 50 -4</p>			

2. PHYSICAL AND CHEMICAL DATA : 2.1 PHYSICAL STATE : Liquid 2.2 APPEARANCE : Light brown liquid. 2.3 ODOUR : Aromatic. 2.4 SPECIFIC GRAVITY (Water = 1) : 1.13 (approx.) 2.5 VAPOUR PRESSURE AT 20 °C : Data not available

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2.6 VAPOUR DENSITY (Air = 1) : Data not available			
2.7 BOILING RANGE/POINT °C : ---			
2.8 MELTING/FREEZING POINT °C : Data not available			
2.9 SOLUBILITY IN WATER : Soluble (At 20 °C) 2.10 pH ( 1 % Solution) : 5.5 - 7.5			

3. FIRE AND EXPLOSION HAZARD :

DATA 3.1 FLAMMABILITY : Yes

3.2 FLASH POINT ° C : 88

3.3 AUTO - IGNITION TEMP. ( ° C ) : Data not available

3.4 UPPER EXPLOSION LIMIT : Data not available ( % By Volume )

3.5 LOWER EXPLOSION LIMIT : Data not available ( % By Volume )

3.6 TDG FLAMMABILITY : Data not available

3.7 EXPLOSION SENSITIVITY : Data not available TO IMPACT

3.8 EXPLOSION SENSITIVITY : Data not available TO STATIC ELECTRICITY

3.9 HAZARDOUS COMBUSTION : Formation of Hydrogen Chloride, PRODUCTS Hydrogen Cyanide, Carbon monoxide. Sulphur dioxide & Nitrogen oxide possible.

3.10 HAZARDOUS POLYMERISATION : Will not occur.

3.11 CUMBUSTIBLE LIQUID : Yes

3.12 EXPLOSIVE MATERIAL : No

3.13 CORROSIVE MATERIAL : No

3.14 FLAMMABLE MATERIAL : Yes

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3.15 OXIDISER : No 3.16 PYROPHORIC MATERIAL : No 3.17 ORGANIC PEROXIDE : No 3.18 OTHERS : -----			

4. REACTIVITY DATA :

4.10 CHEMICAL STABILITY : Stable under normal conditions

4.2 INCOMPATIBILITY WITH : Data not available. OTHER MATERIAL

4.3 REACTIVITY : Data not available

4.4 HAZARDOUS REACTION : On combustion hydrogen chloride, Hydrogen PRODUCTS cyanide, Carbon monoxide, Sulphur Dioxide & Nitrogen dioxide are formed.

5. HEALTH HAZARD DATA :

5.1 ROUTS OF ENTRY : Inhalation, Ingestion or Skin contact

5.2 EFFECTS OF EXPOSURE / : Apathy, myatonia, difficult breathing and SYMPTOMS tremor in case of severe intoxication and also myospasms

5.3 EMERGENCY TREATMENT : Remove the victim from danger zone. If there is risk of unconsciousness position & transport in stable lateral position. Remove soiled or soaked clothes immediately. Do Not induce vomiting. Call a physician immediately.

5.4 TLV (ACGIH) : Not determined 5.5 STEL : Not determined

5.6 PERMISSIBLE EXPOSURE LIMITS : 80 mg/m3 (For N-Methyl-2-pyrrolidone (Vapor))

5.7 ODOUR THRESHOLD : Not determined 5.8 LD 50 (Routes & Species ) : Oral rat : 2200 mg/kg (Bayer) Dermal rat : > 5000 mg/kg (Bayer) LC 50 (Routes & Species ) : Inhalation rat : > 6.3 mg/l, Test conducted with a similar formulation. (asaerosol)

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Highest attain. conc.

**TOXICOLOGICAL INFORMATION:**

Skin Irritation - non-irritant (rabbit)

Eye Irritation - slight irritant effect - does not require labelling (rabbit)

Sensitization - Non-sensitizing (guinea pig)                      OECD 406, Buehler test Test conducted with a similar formulation.

**ECOLOGICAL INFORMATION:** Fish (Rainbow trout (*Oncorhynchus mykiss*)) LC50 211 mg/l, Exposure time: 96 hr Daphnia (Water flea (*Daphnia magna*)) EC50 85 mg/l, Exposure time: 48 hr Algae (*Desmodesmus subspicatus*) EC50 >10 mg/l, Exposure time: 72 h (Growth rate) The value mentioned relates to the active ingredient imidacloprid. 5.9 NFPA HAZARD SIGNALS : HEALTH : 2 FLAMMABILITY : 2 REACTIVITY : 1 SPECIAL : 0

**6. PREVENTIVE MEASURES :**

**6.1 PERSONAL PROTECTIVE : EQUIPMENT**

- GLOVES : Chemical resistant gloves
- RESPIRATORY : Full face mask with combination filter e. g. ABEK – P2
- EYES : Safety goggles
- FOOTWARE : Safety shoes
- CLOTHING : Protective clothing.

**--OTHER PRECAUTIONS:**

--6.2 HANDLING AND STORAGE : Keep the place of work clean. Avoid contact with the product. Keep working clothes separate. Change badly soiled or soaked clothing. Wash hands before breaks & at the end of work. Store the material in a dry place & protect from temp. below 0 & above 40 °C Keep away from

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food, drink and animal feeding stuffs.			
<p><b>7. EMERGENCY AND FIRST AID : MEASURES</b></p> <p><b>7.1 FIRE : 7.1.1 FIRE EXTINGUISHING MEDIA :</b> Water Spray, CO<sub>2</sub> ,Dry chemical powder, Foam, Sand.</p> <p><b>7.1.2 SPECIAL PROCEDURES :</b> Fight fire in early stages if safe to do so. Wear respiratory protection Enclosed premises : Respirator with independent air supply. Contain fire fighting water.</p> <p><b>7.1.3 UNUSUAL HAZARDS :</b> In the event of fire formation of Hydrogen chloride, Hydrogen cyanide, Carbon Monoxide, Sulphur dioxide &amp; Nitrogen dioxide must be anticipated. .</p> <p><b>7.2 EXPOSURE :</b></p> <p><b>7.2.1 FIRST AID MEASURE :</b> If the product gets in to eyes rinse it out immediately with plenty of water. In the event of poisoning determine &amp; give first aid. Consult a doctor</p> <p><b>7.2.2 ANTIDOTE/DOSAGE :</b> Basic aid, decontamination, symptomatic treatment Monitoring of respiratory and cardiac functions. Gastric lavage, then charcoal (carbo medicalis) and sodium sulfate.</p> <p><b>7.3 SPILLS :</b></p> <p><b>7.3.1 STEPS TO BE TAKEN :</b> Use the necessary personal protective equipment. Prevent entry in to drains, water or soil. Do not empty into drains or water. Take the spilled product with absorbent (Saw dust peat or chemical binder). Fill the material taken up into closable container. To clean the floor and all objects contaminated by this material use damp cloth. Also place used cleaning material in to closable receptacles.</p> <p><b>7.3.2 WASTE DISPOSAL METHOD :</b> Small quantities and un-cleaned empty packaging materials shall be packed and sealed labeled and transferred to a suitable incinerator</p>			
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in accordance with local regulations. Where large quantities are concerned consult the manufacturer/ the supplier.			
8 ADDITIONAL INFORMATION / : BCS GLOBAL QHSE MSDS Library - SAP REFERENCE MDRS System - Material/UVP No. – 2714004 Insecticidal active ingredient			
<p>9. MANUFACTURER/SUPPLIERS : DATA 9.1 NAME OF FIRM : Bayer CropScience Limited 9.2 MAILING ADDRESS : Kolshet Road Thane ( Maharashtra ) Pin Code 400607 9.3 TELEPHONE : 91-22-2531 1030 9.4 TELEFAX NO : 91-22-2545 5223 9.5 E - MAIL : sadanand.dandekar@bayercropscience.com 9.5 TELEGRAPHIC ADDRESS : 9.7 a) CONTACT PERSON IN : Emergency Control Center EMMERGENCY Bayer CropScience Limited, Kolshet Road, Thane (Maharashtra State) 400 607 Telephone No. 022-25311884 022-25311885 b) LOCAL BODIES INVOLVED : District Emergency Control Center Collector Office, Thane. 9.8 STANDARD PACKING : 10 ml, 50ml, 100ml, 250ml HDPE bottles and 500 ml ,1000 ml Co ex (PE/PA)containers. 9.9 TREMCARD DETAILS / REF. NO. : Available</p>			
10. DISCLAIMER : Information contained in this Material Data Sheet is believed to be reliable but no representation guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer / seller to ensure that the			

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information contained in the Material Safety Data Sheet is relevant to the product manufactured / handled or sold by him as the case may be. The company makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.			