



MATERIAL SAFETY DATA SHEET (MSDS)

ACIDOR 20 SL

IDENTIFICATION OF THE SUPPLIER:

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PRODUCT IDENTIFICATION:

Common name: Imidacloprid.

Trade Name: Acidor 20 SL

Chemical name: 1-(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine

Molecular weight: 255.7

Molecular formula: C₉H₁₀ClN₅O₂

PRODUCT COMPOSITION:

<i>Active Ingredient:</i>	<i>CAS #</i>	<i>% w/v</i>
Imidacloprid	[138261 – 41 – 3]	20% w/v
<i>Inert ingredient:</i> Solvent		Up to 1 liter.



HAZARDS IDENTIFICATION:

Toxicity Class:	Non Hazardous as per NOHSC
Symptoms of poisoning:	Irritant
Skin:	Minimally toxic and not irritating.
Eyes:	Slightly eye irritation
Inhalation:	Not a likely route of exposure when handling the concentrate. Care should be taken to avoid inhalation of excessive amount of material during field spraying May be Irritating to the respiratory system
Ingestion:	Amount swallowed incidental to normal handling procedures and use are not expected to cause injury
Other information:	Toxic in general

FIRST AID MEASURES:

- General** Have the product container or label with you when calling a poison control center or doctor or going for treatment.
- Eye** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Skin** Take off all contaminated clothing immediately. Rinse immediately with plenty of water for at least 15 minutes. Call a poison control center or doctor for treatment advice.
- Ingestion** Don't 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

Treatment There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patients condition is recommended.



FIRE FIGHTING MEASURES:

Flash Point	> 88 °C
Suitable Extinguishing media	Water, Carbon dioxide (CO ₂), Dry chemical, Foam.
Fire Fighting Instructions	Keep out smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Dike area to prevent runoff contamination of water sources. Equipment or materials involved in pesticide fires may become contaminated. In the event of fire, wear self-contained breathing apparatus.

ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Avoid Contact with skin and eyes .Do not breathe in fumes

Environmental Precautions: Do not allow entering drains or watercourses. When the product contaminates public waters, inform appropriate authorities immediately in accordance with local regulations

Occupational spill: For **small** dry spills, sweep up with damp earth or sand or other suitable absorbents, such as sawdust, taking care not to raise a dust cloud. Place the material into a clean, dry container and cover for subsequent disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. For **large spills** contact the manufacturer. Contain liquid far ahead of spill. Contain spillage and contaminated water and soil for subsequent disposal. Do not flush spilled material into drains. Keep spectators away and upwind.



HANDLING AND STORAGE:

Handling: Keep product in original tightly closed container. Remove sources of naked flame or sparks. Avoid contact with eyes, prolonged contact with skin, and inhalation of dust and vapour. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Remove clothing immediately if the product gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage: Store bagged material only on pallets no more than 3 metre high. Provide access aisles for each 2 rows. Loose bags could not be stacked more than 2x2x2 meters. Dense packaging of unvented stacks of bags or boxes may lead to product decomposition posing a fire hazard. Decomposition produces a foul odor. Check for hot containers and immediately remove to open areas for disposal. Keep out of reach of unauthorized persons, children and animals. Store in its original labeled container in shaded, well-ventilated area, away from heat, sparks and other sources of ignition. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.

EXPOSURE CONTROLS/PERSONAL PROTECTION:

Occupational exposure limits: No occupational limits are established .

Engineering control measures: It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Only spark –resistant equipment should be used. Comply with occupational safety, environmental, fire and other applicable regulations.





EXPOSURE CONTROLS/PERSONAL PROTECTION:

(Follow up)

PERSONAL PROTECTIVE EQUIPMENT:

Respirator: An approved full-face respirator suitable for protection from dusts and mists of pesticides is required. Limitations of respirator use specified by the approving agency and the manufacturer must be observed. Comply with occupational safety, environmental, fire, and other applicable regulations.

Clothing: Employee must wear appropriate protective (impervious) clothing, boots and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing.

Gloves: Employee must wear appropriate chemical resistant and protective gloves to prevent contact with this substance.

Eye protection: The use of safety goggles is recommended. Emergency eye wash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	Light brown
Physical State	Liquid
Odor	Aromatic chemical
Density:	1.18 g/ml
PH:	7-8
Flammability:	Flammable
Explosivity:	Non explosive

STABILITY AND REACTIVITY:

Stability: Stable under normal, dry storage conditions. Slowly decomposed by heat and moisture

Conditions to avoid: No special precautions other than good housekeeping of chemicals.

Incompatibility: Incompatible with oxidation materials and acids. The Product is compatible with many other pesticides when used at normal rates. However, a compatibility test is required before using with other



STABILITY AND REACTIVITY : (Follow up)

Do not physically mix concentrate directly with other products. herbicides or pesticide concentrates; always dilute first.

Hazardous decomposition: Thermal decomposition products may emit oxides of carbon and nitrogen. And possibly hydrogen chloride

TOXICOLOGICAL INFORMATION:(active ingredient)

LD50 Acute Oral	450 mg/kg in rats
LD50 Acute Dermal	> 5000 mg /kg rabbit
LC50 Acute Inhalation	>5323 mg/L in rats (4 hour).
Skin Irritation	Non irritation to skin
Eye Irritation	Non irritation .
Dermal sensitisation	Non sensitizing to Guinea pigs.
Mutagenicity	Results taken from animal studies suggest that the product is not mutagenic.

ECOLOGICAL INFORMATION:

Bees Harmful to honeybees LD50 0.008 ug/bee

Birds Moderately toxic

The Aquatic Organisms Fish:

Golden orfe: 237 mg/L

Rainbow trout: 211 mg/L

DISPOSAL CONSIDERATIONS

Pesticide disposal Contaminated absorbents, used containers, surplus product, etc., should be burnt at > 1000oC in an incinerator, preferably designed for pesticide disposal, or buried in an approved landfill. Comply with local legislation applying to waste disposal.





DISPOSAL CONSIDERATIONS : (Follow up)

Container disposal

1. Emptied containers retain product residues. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed. Combustible containers should be disposed of in pesticide incinerators or buried in an approved landfill.
2. Noncombustible containers must first be triple rinsed with water.
3. Containers that are not to be reused and should be punctured and transported to a scrap metal facility for recycling or disposal.

