Safety Data Sheet
As per Globally Harmonized System (GHS)

Product Identification: 2-Chloro-6- (trichloromethyl)pyridine; (Nitrapyrin)
0121Am Ghs10 Div.3 sds 2-Chloro-6-(trichloromethyl)pyridine; (Nitrapyrin)

Date of issue: September 01, 2015

SDS Code : 0121Am Ghs10 Div.3 sds 2-Chloro-6-(trichloromethyl)pyridine (Nitrapyrin)
Date of Compilation : June 04, 2012
Date of Revision : September 01, 2015
Due Date of Revision : August, 2017
Revision Number : 10
Version Number : 0121Am Ghs10 Div.3 sds 2-Chloro-6 (trichloromethyl)pyridine (Nitrapyrin)
Supersedes date : May 07, 2014
Supersedes version : 0121A09 Div.03 sds 2-Chloro-6-(trichloromethyl)pyridine
SECTION 1.: IDENTIFICATION

PRODUCT NAME: 2-Chloro-6-(trichloromethyl)Pyridine
TRADE NAME: Nitrapyrin
CAS RN: 1929-82-4
EC#: 217-682-2
SYNONYMS: Nitrapyrin
Pyridine, 2-chloro-6-(trichloromethyl)-
SYSTEMATIC NAME: 2-Chloro-6-(trichloromethyl)pyridine
MOLECULAR FORMULA: C₆H₃NCl₄
STRUCTURAL FORMULA:

FACTORY ADDRESS: Jubilant Life Sciences Ltd.
N-34, M.I.D.C, Anand Nagar, Add. Ambernath-421506,
Maharashtra, India
Phone No. +91-251-2620437
Fax: +91-251-2620439

HEAD OFFICE:
Jubilant Life Sciences Ltd.
Plot 1-A, Sector 16-A,
Institutional Area, Noida,
Uttar Pradesh-201301 India.
PHONE NO: +91-120-4361000
FAX NO : +91-120- 4234881 / 84 / 85 / 87 / 95 / 96
Email: support@jubl.com
Website: www.jubl.com
Safety Data Sheet
As per Globally Harmonized System (GHS)

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          0121Am Ghs10 Div.3 sds 2-Chloro-6- (trichloromethyl)pyridine; (Nitrapyrin)

Date of issue: September 01, 2015

Emergency telephone: +91-9689925834

Product Uses:
- 2-Chloro-6-(trichloromethyl)pyridine (Nitrapyrin) finds its application as a Nitrification Inhibitor for Anhydrous Ammonia Applied in Different Seasons as fertilizer in agriculture especially Picolinafen. Used as a fertilizer additive to improve nitrogen in soil.

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION
Acute toxicity Oral: Category 4
Skin corrosion / irritant: Category 2
Eye damage/eye irritant: Category 2B
Hazardous to the Aquatic Environment: Category 2 (Chronic Hazard)

Hazard Pictogram: GHS 07, GHS 09
Signal Word: Warning!

HAZARD AND PRECAUTIONARY STATEMENTS:

HAZARD STATEMENTS
- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H320: Causes eye irritation.
- H411: Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS
Prevention
- P264: Wash hands thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P273: Avoid release to the environment.

Response
- P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
- P330: Rinse mouth.
SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Chemical</th>
<th>CAS #</th>
<th>EC#</th>
<th>Purity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>2-Chloro-6-(trichloromethyl)pyridine</td>
<td>1929-82-4</td>
<td>217-682-2</td>
<td>&gt;98%</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

Key symptoms

- **Acute effects:**
  - **Eyes:** Irritation, redness, pain, burns, loss of vision.
  - **Skin:** Irritation, pain, redness, burns. Behavioral somnolence observed in test animals.
  - **Ingestion:** Abdominal pain, burning sensation, diarrhea, shock or collapse, sore throat or vomiting. May include burning sensation, coughing, wheezing, and laryngitis, shortness of breath, headache, nausea and vomiting. Exposure can cause gastrointestinal disturbance.
  - **Inhalation:** Sore throat, cough, burning sensation, shortness of breath, labored breathing, headache, nausea and vomiting. Exposure can cause headache, dizziness, heaviness and weakness of the arms and legs. Continued exposure may progress to convulsions and death.

- **Chronic effects:**
  Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

**FIRST AID:**

- **Eyes:** If in eyes rinse cautiously with water for at least 15 minutes. Remove contact lenses if easy to do so. Continue rinsing. Seek medical attention.
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0121Am Ghs10 Div.3 sds 2-Chloro-6- (trichloromethyl)pyridine; (Nitrapyrin)

Date of issue: September 01, 2015

- **Skin:** Immediately take off all contaminated clothing. Wash thoroughly with water for at least 15 minutes. Wash contaminated clothes before reuse. Seek immediate medical attention.
- **Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if you feel unwell.
- **Ingestion:** If swallowed call a poison center if you feel unwell. Rinse mouth. INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.

SECTION 5 : FIRE-FIGHTING MEASURES

**Flash Point:** 100°C (230 deg F)

**Flammability:** Non-Flammable material

**Extinguishing media:**
- *Appropriate extinguishing media:* Dry chemical powder, chemical foam, carbon dioxide, and alcohol resistant foam. Do not use water jet or fog (spray) to extinguish. Water sprays can be effective in cooling down the fire-exposed containers and knocking down the vapours. Water jets may be used to flush spills away and dilute the same to non-flammable mixtures fog or alcohol-resistant foam by directing streams to the periphery of the fires to prevent spread.

**Special Protective Equipment and Precautions for Fire Fighter:**
- Evacuate the area and fight fires from a safe distance.
- If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions or as per locally valid procedures.
- Fire-fighters must wear Self Contained Breathing Apparatus (SCBA).
- Chemical is water-soluble. Report any run-off of firewater’s contaminated with this chemical as per local and federal procedures applicable.
- Report any run-off of fire waters contaminated with this chemical as per local and federal procedures applicable.

**Unusual fire and explosion hazard:**
- Toxic vapors may be released on thermal decomposition including nitrogen oxides, carbon monoxide and cyanide.
- High vapor concentration may result in an explosion hazard.
- Vapors are heavier than air. May travel considerable distance from source and flashback.
SECTION 6: ACCIDENTAL RELEASE MEASURES

Minor Spills
- Clean up all spills immediately following relevant Standard Operating Procedures.
- Avoid breathing vapors and contact with skin and eyes.
- Shut off leak source if possible.
- Shut off all possible sources of ignition.
- Wear protective clothing, boots, impervious gloves and safety glasses.
- Wipe up.
- Decontaminate all equipment.

Major Spill
- Alert Emergency Responders and tell them location and nature of hazard.
- Shut off all possible sources of ignition and increase ventilation.
- Wear protective clothing, full boots, impervious gloves, safety glasses and Self Contained Breathing Apparatus (SCBA), as may be deemed appropriate.
- Clear area of personnel and move upwind.
- Stop leaks if possible.
- Prevent, by any means available, spillage from entering drains or water and watercourses.
- Collect recoverable product into labeled containers for recycling, recovery or disposal.
- Contain spill with sand, earth or vermiculite.
- Spread area with lime or absorbent material, and leave for at least 1 hour before washing.
- Clean up all tools and equipment.
- Inform authorities in event of contamination of any public sewers, drains or water bodies.

SECTION 7: HANDLING AND STORAGE

Handling
- Do not breathe vapor or mist.
- Wear protective gloves/clothing and eye/face protection.
- Wash thoroughly after handling.
- Ground and secure containers when dispensing or pouring product.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Launder contaminated clothing before re-use.
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Date of issue: September 01, 2015

- If on skin or hair, IMMEDIATELY remove all contaminated clothing and rinse/shower with plenty of water.
- Use in a well ventilated place/Use protective clothing commensurate with exposure levels.

Storage
- Store in a cool, well ventilated place.
- Store away from incompatible materials.
- Keep securely closed when not in use.

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Limits Values

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Chloro-6-(trichloromethyl)pyridine</td>
<td>TWA 10 mg/m^3; STEL 20 mg/m^3</td>
<td>Established.</td>
<td>Established</td>
</tr>
</tbody>
</table>

Exposure Limits (International):
ACGIH
- TLV-TWA 10 mg/m^3; STEL 20 mg/m^3
- DTLVS* The Threshold Limit Values (TLVs) and Biological Exposure
- Indices (BEIs) booklet issues by American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, OH, 1996 Volume (issue)/page/year: TLV/BEI,2007

OSHA PEL
Safety Data Sheet
As per Globally Harmonized System (GHS)

Product Identification: 2-Chloro-6- (trichloromethyl)pyridine; (Nitrapyrin)
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Date of issue: September 01, 2015


NIOSH Recommended Exposure Level (Rel)
- NIOSH REL TO THE CHEMICAL, respirable fraction-air: 10H TWA 5 mg/m3

Occupational Exposure Limits:
The known occupational exposure limits for this chemical are Listed Below:-
- OEL-BELGIUM: TWA 10 mg/m3, STEL 20 mg/m3, JAN1993
- OEL-FRANCE: VME 10 mg/m3, JAN1999
- OEL-KOREA: TWA 10 mg/m3, STEL 20 mg/m3, 2006
- OEL-MEXICO: TWA 10 mg/m3; STEL 20 mg/m3, 2004
- OEL-THE NETHERLANDS: MAC-TGG 10 mg/m3, 2003
- OEL-NEW ZEALAND: TWA 10 mg/m3, STEL 20 ppm, JAN2002
- OEL-SWITZERLAND: MAK-W 10 mg/m3, DEC2006
- OEL IN ARGENTINA, BULGARIA, COLOMBIA, JORDAN check ACGIH TLV;
- OEL IN SINGAPORE, VIETNAM check ACGIH TLV.

Exposure controls
Appropriate Engineering Controls:
- Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. Local ventilation is usually preferred. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection:
- Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
- **Hands**: Wear appropriate protective gloves to prevent skin exposure. The protective gloves to be used must comply with the specifications of EC directives 89/686/EEC and the resultant standard EN374.
- **Eyes**: Safety goggles/ Chemical Safety glasses and Face shield.
- **Clothing**: Boots and clothing to prevent contact.
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0121Am Ghs10 Div.3 sds 2-Chloro-6-(trichloromethyl)pyridine; (Nitrapyrin)

Date of issue: September 01, 2015

- **Respirator:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

  For emergency situations, wear a positive pressure, pressure-demand, full face piece self-contained breathing apparatus (SCBA) or pressure-demand supplied air respirator with escape SCBA and a fully-encapsulating, chemical resistant suit. (EPA, 1998).

**General Hygiene and general comments:**
- Wash hands and face after working with substance.
- Immediately change contaminated clothing.
- Apply skin protective barrier cream.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

- Information on basic physical and chemical properties.

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Parameter</th>
<th>Typical value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Appearance</td>
<td>Colorless to white crystals.</td>
</tr>
<tr>
<td>2</td>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>3</td>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>4</td>
<td>Melting point</td>
<td>62-65 °C</td>
</tr>
<tr>
<td>5</td>
<td>Boiling point</td>
<td>271°C @ 760.00mm Hg</td>
</tr>
<tr>
<td>6</td>
<td>Flash point</td>
<td>&gt;100. °C</td>
</tr>
<tr>
<td>7</td>
<td>Evaporation rate (n-BuAc=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>8</td>
<td>Explosive limits</td>
<td>Not available</td>
</tr>
<tr>
<td>9</td>
<td>Vapor pressure</td>
<td>0.0048 mm Hg 25 °C</td>
</tr>
<tr>
<td>10</td>
<td>Vapor density (air=1) at 20°C</td>
<td>Not available</td>
</tr>
</tbody>
</table>
**Product Identification:** 2-Chloro-6- (trichloromethyl)pyridine; (Nitrapyrin)

**Date of issue:** September 01, 2015

| 11 | Specific gravity | 1.55 gm/ml |
| 12 | Solubility in water | 0.004 gm/100 gm. Insoluble. |
| 13 | PH (100g/lit) at 20°C | Not available |
| 14 | Log Kow (octanol/water) | 3.35 |
| 15 | Auto-ignition temperature | > 440 °C (> 824.00 ° F) |
| 16 | Decomposition temperature | Not available |
| 17 | Viscosity | Not available |
| 18 | Molecular Weight | 230.9 |
| 19 | Pka (@25°C) | Not available |
| 20 | Log Koc | 2.5 |
| 21 | Flammable material | No |
| 22 | Oxidizer | No |
| 23 | Corrosive material | No |
| 24 | Explosive material | No |

**SECTION 10: STABILITY AND REACTIVITY**

- **Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.
- **Conditions to avoid:** Keep away from heat, sparks, flame, high temperature, incompatible chemicals and strong oxidants.
- **Incompatible chemicals:** Strong acids, strong bases, strong oxidizing agents
- **Hazardous decomposition:** Thermal decomposition may produce Hydrogen chloride, nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, & nitrogen and irritating and toxic fumes.
- **Hazardous Polymerization:** Not reported.

Jubilant Life Sciences Limited
SECTION 11: TOXICOLOGICAL INFORMATION

a) Acute toxicity

- It is harmful if swallowed and irritating to skin and eyes. It causes Irritation to tissues of the mucous membranes and upper respiratory tract.

RTECS #: US7525000
LD50/LC50:

Type of Test: LD50 – Lethal dose, 50 percent kill
Route of Exposure: Oral
Species Observed: Rodent -rat
Dose Data: 940 mg/kg
Toxic Effects: Details of toxic effects not reported other than lethal dose value

Type of Test: LD50 – Lethal dose, 50 percent kill
Route of Exposure: Oral
Species Observed: Rodent -mouse
Dose Data: 710 mg/kg
Toxic Effects: Details of toxic effects not reported other than lethal dose value
Reference: GUCHAZ Guide to the Chemicals Used in Crop Protection. (Information Canada, 171 Slater St., Ottawa, Ont., Canada) Volume (issue)/page/year: 6,122,1973

b) Skin corrosion/irritation

- Causes skin irritation.
- Type of Test: LD50 – Lethal dose, 50 percent kill
- Route of Exposure: Dermal
- Species Observed: Rodent -rabbit
- Dose Data: 850 mg/kg
- Toxic Effects: Details of toxic effects not reported other than lethal dose value
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c) Serious eye damage/irritation
   • Causes eye irritation.

d) Respiratory or skin sensitization
   • Causes irritation to respiratory system.

e) Germ cell Mutagenicity
   • No data is available.

f) Carcinogenicity
   • Not listed by NTP, IARC and OSHA.
   • Not present on the EU CMR list.
   • ACGIH TLV-Not classifiable as human carcinogen
   • DTLVS* The Threshold Limit Values (TLVs) and Biological Exposure Indices (BEIs) booklet issues by American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, OH, 1996 Volume(issue)/page/year: TLV/BEI,2007

h) Reproductive toxicity
   • Type of Test: TDLo -Lowest published toxic dose
   • Route of Exposure: Oral
   • Species Observed: Rodent -rabbit
   • Dose Data: 390 mg/kg
   • Sex/Duration: Female 6-18 days after conception
   • Toxic Effects: Reproductive –Specific Developmental Abnormalities- craniofacial (including nose and tongue)

i) STOT-repeated exposure
   • No data is available.

j) Aspiration Hazards
   • No data available.
SECTION 12: ECOLOGICAL INFORMATION

Toxicity:
Ecotoxicity:
Test Type: LC50 Fish
- Species: Lepomis macrochirus (Bluegill)
- Time: 96 h
- Value: 3.4 mg/l
Test Type: LC50 Fish
- Species: Onchorhynchus mykiss (Rainbow trout)
- Time: 96 h
- Value: 4 mg/l

The chemical is considered to be moderately toxic to fish and other aquatic organisms and may also be toxic to in prolonged exposure.

Persistence and degradability
- It is expected to be biodegradable in aerobic and anaerobic conditions.

Bio accumulative potential
- BCF = 84
- Log Kow= 3.35
Based on the Log Kow and Bioconcentration factor value it is expected to have negligible potential to concentrate in fatty tissue of fish and aquatic organisms relative to its surroundings.

Mobility in soil
- Log Koc= 2.5 (estimated). Low sorption.
- Henry's Law Constant 2.03X 10^{-05} atm/m^3 mole at 25 degrees. Moderately volatile from aqueous bodies.
- Log Kow = 3.35 (estimated). Low potential to bioaccumulate.

Other adverse effects.
- Environment Fate:
  Based on environmental modeling, it is estimated to be persistent in the environment and is expected to be found predominantly in soil. It is also expected to be found in water but not in sediment. It has low potential to bio accumulate and does not biodegrade readily. Since this is an estimated result it is recommended that the material should not be disposed into the environment. The material should never be disposed into the sewage.
SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods
- Burn in a chemical incinerator equipped with an afterburner and scrubber.
- Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable federal, state or local laws. Note that disposal regulations may also apply to empty containers and equipment rinsates.

SECTION 14: TRANSPORT INFORMATION

- This substance is considered to be Hazardous for transport by Air/Rail/Road and Sea and thus regulated by IATA/ICAO/ARD/RID/IMO/IMDG.

<table>
<thead>
<tr>
<th>S.No</th>
<th>Agency</th>
<th>UN Number</th>
<th>Proper Shipping name</th>
<th>Hazard Class</th>
<th>Packing Group</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Land Transport</td>
<td>ADR/RID</td>
<td>UN 3077</td>
<td>Environmental Hazardous substance. n.o.s { 2-chloro-6-(trichloromethyl)pyridine}</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Maritime Transport</td>
<td>IMDG</td>
<td>UN 3077</td>
<td>Environmental Hazardous substance. n.o.s { 2-chloro-6-(trichloromethyl)pyridine}</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Air Transport</td>
<td>IATA</td>
<td>UN 3077</td>
<td>Environmental Hazardous substance. n.o.s { 2-chloro-6-(trichloromethyl)pyridine}</td>
<td>9</td>
</tr>
</tbody>
</table>

Hazard Label: Environmental Hazard
Safety Data Sheet
As per Globally Harmonized System (GHS)

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Date of issue: September 01, 2015

Environmental hazards:
- Marine pollutant: Yes

SECTION 15: REGULATORY INFORMATION

European Union Information
- Classification as per Regulation 67/548/EEC: Xn;R22 - Xi; R36/37/38 N;R51/53
  - Xn: Harmful.
  - Xi: Irritant.
  - N: Environmental hazard.

Risk Phrases:
- R22: Harmful if swallowed.
- R36/37/38: Irritating to eyes, respiratory system and skin.
- R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:
- S25: Avoid contact with eyes.
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
- S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Classification as per CLP Regulation 1272/2008:
- Hazards Class and Category: Acute Tox Oral Cat.4; Aquatic chronic Cat 2
- Hazard Statements: H302;H411

<table>
<thead>
<tr>
<th>Chemical Inventory Lists</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA:</td>
<td>Present</td>
</tr>
<tr>
<td>EINECS:</td>
<td>217-682-2</td>
</tr>
<tr>
<td>Canada(DSL/NDSL):</td>
<td>Listed/DSL</td>
</tr>
<tr>
<td>Japan:</td>
<td>Not listed</td>
</tr>
<tr>
<td>Korea:</td>
<td>Present</td>
</tr>
<tr>
<td>Australia:</td>
<td>Not listed</td>
</tr>
<tr>
<td>China: IECSC</td>
<td>Not listed</td>
</tr>
</tbody>
</table>
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US information
- EPA IRIS database: Present
- SARA LISTED: Yes
- DEMINIMIS: 1%
- OSHA HAZARD COMMUNICATION STANDARD: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200
- NOTES: This product is subject to SARA section 313 reporting requirements.
- Calif. Prop. 65 carcinogen & developmental hazard: Readily absorbed through skin
- TSCA
  - CAS# 1929-82-4 is listed on the TSCA inventory.

Canada - DSL/NDSL
- DSL - The substance is specified on the public Portion of the Domestic Substances List (refer to section 2.1.1 of the Guidelines).

SECTION 16: OTHER INFORMATION

Compilation information of safety data sheet
Chemical: 2-Chloro-6-(trichloromethyl)pyridine; (Nitrapyrin)
CAS #: 1929-82-4
File Name: 0121Am Ghs10 Div.3 sds 2-chloro-6-(trichloromethyl)pyridine; (Nitrapyrin)
Revision Number: 10
Date of Issue: September 01, 2015
Revision Due Date: August, 2017

(a) A key or legend to aberrations and acronyms used in the safety data sheet;
- PBT = Persistent Bioaccumulative and Toxic.
- vPvB = Very Persistent and Very Bioaccumulative.
- SCBA = Self Contained Breathing Apparatus.
- NIOSH REL = National Institute for Occupational Safety and Health Recommended Exposure Limit.
- OSHA PEL = Occupational Safety and Health Administration Permissible Exposure Limit.
- OELTWA = Occupational Exposure Limit Time Weighted Averages.
- IDLH = Immediately Dangerous to Life or Health.
- UEL = Upper Explosive Limit.
- LEL = Lower Explosive Limit.
- RTECS = Registry of Toxic Effects of Chemical Substances.
- NTP = National Toxicology Program.
- IARC = International Agency for Research on Cancer.
- EPA = Environmental Protection Agency.
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- TSCA= Toxic Substances Control Act.
- SARA= Superfund Amendments and Reauthorization Act.
- DSL/NDSL= Domestic/Non-Domestic Substances List.
- CSR=Chemical Safety Report.
- BCF = Bio Concentration Factor.
- DNEL = Derived No Effect Level.
- PNEC = Predicted No Effect Concentration.
- TLV = Threshold Limit Value.
- ACGIH = American Conference of Governmental Industrial Hygienists.
- REACH = Registration, Evaluation and Authorisation and Restriction of Chemicals.
- CLP = Classification, Labelling and Packaging.
- LD / LC = Lethal Doses / Lethal Concentration.
- GHS = Globally Harmonised System.
- ADR = Accord européen relative au transport international de marchandises.
- EmS = Emergency measures on Sea.
- ICAO = International Civil Aviation Organization.
- IATA/DGR= International Air Transport Association/Dangerous Goods Regulation.

(b) Key Literature reference and sources for data
Biographical reference and data sources
- CLP REG (regulation) (EC) no. 1272/2008, last modification by regulation (EC) no. 790/2009
- DIR 67/548/EWG, last modification by DIR 2009/2/EC

Internet
- RTECS
- ESIS

Company’s Declaration:
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(End of Safety Data Sheet)