Safety Data Sheet
As per Globally Harmonized System (GHS)

Product Identification: Cetylpyridinum chloride monohydrate

Date of issue: June 24, 2013

SDS Code : 0189A04  Div.03 sds  Cetylpyridinum chloride monohydrate
Date of Compilation : October 15, 2012
Date of Revision : June 24, 2013
Due Date of Revision : May, 2015
Revision Number : 04
Version Number : 0189A04  Div.03 sds  Cetylpyridinum chloride monohydrate
Supersedes date : April 08, 2013
Supersedes version : 0189A03  Div.03 sds  Cetylpyridinum chloride monohydrate
SECTION 1.: IDENTIFICATION

PRODUCT NAME  Cetylpyridinium chloride monohydrate
CAS RN  6004-24-6
EC#  Not established
SYNONYMS  Hexadecylpyridium Chloride , Monohydrate ; 1-Hexadecylpyridinium chloride monohydrate
SYSTEMATIC NAME  1-Hexadecylpyridinium chloride monohydrate.
MOLECULAR FORMULA  \( C_{21}H_{38}ClN.H_2O \)
STRUCTURAL FORMULA

FACTORY & REGISTERED OFFICE:
Jubilant Life Sciences Ltd.
Bhartiagram, Gajraula
District: Amroha
Uttar Pradesh-244223, India
PHONE NO: +91-5924-252353 to 252360
Contact Department-Safety: Ext. 7424
FAX NO: 91-5924-252352

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)

Product Identification: Cetylpyridinum chloride monohydrate
0189A04 Div.03 sds Cetylpyridinum chloride monohydrate

Date of issue: June 24, 2013

Emergency telephone:
- Medical and Transport Emergencies: +91-9997022412 (India)
- Logistics Emergencies: +91-120-4365441 (India)

Product Uses:
- It is used as a preservative and phase transfer reagent. It is used as an antibacterial in cough lozenges, syrups and mouthwashes. It is also used as an emulsifier and a laboratory reagent.

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION
Acute Toxicity Oral: category 3
Acute Toxicity Dermal: Category 3
Skin Irritation: Category 2
Serious eye damage/eye irritation: Category 2 A

Hazard Pictogram: GHS 06
Signal Word: Danger!

HAZARD AND PRECAUTIONARY STATEMENTS:

HAZARD STATEMENTS
- H301: Toxic if swallowed.
- H311: Toxic in contact with skin.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.

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.

Response
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Safety Data Sheet
As per Globally Harmonized System (GHS)

Product Identification: Cetylpyridinium chloride monohydrate

Date of issue: June 24, 2013

- P330: Rinse mouth.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P361: Remove/Take off immediately all contaminated clothing.
- P363: Wash contaminated clothing before reuse.

Storage
- P405: Store locked up.

Disposal
- P501: Dispose of contents/container to local/regional/national/international regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGERDIENTS

<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>Cetylpyridinium Chloride Monohydrate</td>
<td>6004-24-6</td>
<td>Not established</td>
<td>&gt;99%</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

Key symptoms
- Acute effects:
  - Eyes: Severely irritating to eyes.
  - Skin: Toxic in contact with skin and it is severely irritating to skin also.
  - Ingestion: Toxic if swallowed.
  - Inhalation: Irritating to tissues of the mucous membranes and upper respiratory tract, it may cause allergic reaction if exposed to individuals.

- Chronic effects:
  - To the best of our knowledge, the chronic health effects of this product have not been fully investigated.

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.
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. Monitor for respiratory distress. Apply artificial respiration if not breathing. Do not use mouth-to-mouth methods if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device?

Ingestion: If swallowed call a poison center if you feel unwell. Rinse mouth. Do NOT induce vomiting by use of emetics. Seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: Not available

Extinguishing media:

- Appropriate extinguishing media: Dry chemical powder, carbon dioxide, and alcohol resistant foam. Water spray 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.
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, dry and ventilated place.
- Keep dry & protected from direct sunlight.
- Store away from incompatible materials.
- Keep only in original container.
- 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>Cetylpyridinium chloride monohydrate</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

Exposure Limits (International):
- Not available.

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.
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>White Powder.</td>
</tr>
<tr>
<td>2.</td>
<td>Odor</td>
<td>Characteristic Odor</td>
</tr>
<tr>
<td>3.</td>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>4.</td>
<td>pH</td>
<td>6.0-7.0</td>
</tr>
<tr>
<td>5.</td>
<td>Melting point/Freezing point</td>
<td>80-84°C</td>
</tr>
<tr>
<td>6.</td>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>7.</td>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>8.</td>
<td>Evaporation rate (n-BuAc=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>9.</td>
<td>Flammability</td>
<td>Not available</td>
</tr>
<tr>
<td>10.</td>
<td>Upper/lower flammability or Explosive limits</td>
<td>Not available</td>
</tr>
</tbody>
</table>
Safety Data Sheet
As per Globally Harmonized System (GHS)

Product Identification: Cetylpyridinum chloride monohydrate

Date of issue: June 24, 2013

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>11.</td>
<td>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>12.</td>
<td>Vapor density (air=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>13.</td>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>14.</td>
<td>Solubility</td>
<td>Freely soluble in water</td>
</tr>
<tr>
<td>15.</td>
<td>Partition coefficient : n- (Octonol / water)</td>
<td>8.7</td>
</tr>
<tr>
<td>16.</td>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>17.</td>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>18.</td>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>19.</td>
<td>Explosive property</td>
<td>No</td>
</tr>
<tr>
<td>20.</td>
<td>Oxidizing property</td>
<td>No</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

- **Stability**: Stable under normal condition of temperature and pressures.
- **Conditions to avoid**: Keep away from High temperature, mechanical shock, incompatible materials, ignition sources, excess heat, and moisture. Avoid static discharge and uncontrolled exposure to high temperatures.
- **Incompatible chemicals**: Strong oxidizing agents and strong bases.
- **Hazardous decomposition**: Thermal decomposition may produce carbon monoxide and oxides of nitrogen, carbon dioxide & nitrogen, Hydrogen chloride, hydrogen cyanide and irritating and toxic fumes and sooty material.
- **Hazardous Polymerization**: Not reported.
SECTION 11:  TOXICOLOGICAL INFORMATION

a) Acute toxicity
- Cetylpyridinium chloride monohydrate is very toxic in contact with skin and toxic if swallowed. It causes skin and eye irritation. It also causes irritation to respiratory system and may cause allergic reaction if exposed to individuals.

RTECS#: UU5075000
1. Type of Test: LDLo – Lowest published lethal dose.
   Route of Exposure: Oral.
   Species Observed: Rodent – Rabbit.
   Dose Data: 400 mg/kg.
   Toxic effects: Gastrointestinal - hypermotility, diarrhea.
2. Type of Test: LDLo – Lowest published lethal dose.
   Route of Exposure: Intravenous.
   Species Observed: Rodent – Rabbit.
   Dose Data: 20 mg/kg.
   Toxic effects: Behavioral – somnolence (general depressed activity)

- Reference: JPETAB Journal of Pharmacology and Experimental Therapeutics. (Williams & Wilkins Co., 428 E.Preston St., Baltimore, MD 21202) V.1- 1909/10- Volume (issue)/page/year: 74,401,1942

b) Skin corrosion/irritation
- Causes skin irritation.

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.
- According to information presently available Cetylpyridinium chloride monohydrate is not found to be carcinogenic.

g) Reproductive toxicity
- No data is available.
Safety Data Sheet
As per Globally Harmonized System (GHS)

Product Identification: Cetylpyridinum chloride monohydrate
0189A04 Div.03 sds Cetylpyridinum chloride monohydrate

Date of issue: June 24, 2013

h) STOT-single exposure
   • It causes respiratory irritation.

i) STOT-repeated exposure
   • No data available.

j) Aspiration Hazards
   • No data available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:
Ecotoxicity:
   • The Ecotoxicity data is not available.

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

Bio accumulative potential
   • BCF = 71
   • Log Kow= 8.7

Based on the Log Kow and Bioconcentration factor value it is expected to have high potential to concentrate in fatty tissue of fish and aquatic organisms relative to its surroundings.

Mobility in soil
   • Log Koc= 5.73 (estimated). Very strong sorption.
   • Henry's Law Constant 1.1 x 10^{-9} atm·m^{3}/mole at 25 degrees. Slightly Volatile from aqueous bodies.
   • Log Kow= 8.7 (estimated). High potential to bioaccumulate.

Other adverse effects.
   • Environment Fate:
     • Based on the environmental modeling, this material has a high potential to get absorbed in the organic matter of soil and is slightly volatile from water bodies. 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 2811</td>
<td>TOXIC SOLID, ORGANIC, N.O.S. (Cetylpyridinium chloride monohydrate)</td>
<td>6,(6.1)</td>
</tr>
<tr>
<td></td>
<td>Maritime Transport</td>
<td>IMDG</td>
<td>UN 2811</td>
<td>TOXIC SOLID, ORGANIC, N.O.S. (Cetylpyridinium chloride monohydrate)</td>
<td>6,(6.1)</td>
</tr>
<tr>
<td></td>
<td>Air Transport</td>
<td>IATA</td>
<td>UN 2811</td>
<td>TOXIC SOLID, ORGANIC, N.O.S. (Cetylpyridinium chloride monohydrate)</td>
<td>6,(6.1)</td>
</tr>
</tbody>
</table>

Hazard Label | Toxic | 6 |
Environmental hazards:
- Marine pollutant: No

SECTION 15: REGULATORY INFORMATION

European Union Information

Classification as per Regulation 67/548/EEC: T;R25/27 - Xi; R36/37/38 - R52/53
- T  Toxic
- Xi  Irritant

Risk Phrases:
- R25: Toxic if swallowed.
- R27: Very toxic in contact with skin.
- R36/37/38: Irritating to eyes, respiratory system and skin.
- R52/53: Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment.

Safety Phrases:
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S28: After contact with skin, wash immediately with plenty of soap and water.
- S36/37: Wear suitable protective clothing and gloves.
- S45: In case of accident or if you feel unwell, seek medical advice immediately. (show the label where possible).
- S61: Avoid release to the environment. Refer to special instructions/ safety data sheets.

Classification as per CLP Regulation 1272/2008:

- Hazards Class and Category: Acute Tox. Oral/Dermal Cat.3, Skin Irrit. cat.2, Eye irrit. cat.2
- Hazard Statements: H301; H311; H315; H319

<table>
<thead>
<tr>
<th>Chemical Inventory Lists:</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA:</td>
<td>Not listed</td>
</tr>
<tr>
<td>EINECS:</td>
<td>Not listed</td>
</tr>
<tr>
<td>Canada(DSL/NDSL):</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Japan:</td>
<td>Not listed</td>
</tr>
<tr>
<td>Korea:</td>
<td>Not listed</td>
</tr>
<tr>
<td>Australia:</td>
<td>Not listed</td>
</tr>
<tr>
<td>China: IECSC</td>
<td>Listed</td>
</tr>
</tbody>
</table>
US information

- **TSCA**
  CAS# 6004-24-6 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR720.3(u)(2)).

- **Health & Safety Reporting List**
  None of the chemicals are on the Health & Safety Reporting List.

- **Chemical Test Rules**
  None of the chemicals in this product are under a Chemical Test Rule.

- **TSCA Significant New Use Rule**
  None of the chemicals in this material have a SNUR under TSCA.

- **CERCLA Hazardous Substances and corresponding RQs**
  None of the chemicals in this material have an RQ.

- **SARA Section 302 Extremely Hazardous Substances**
  None of the chemicals in this product have a TPQ.

- **Section 313**
  No chemicals are reportable under Section 313.

- **Clean Air Act:**
  This material does not contain any hazardous air pollutants.
  This material does not contain any Class 1 Ozone depleters.
  This material does not contain any Class 2 Ozone depleters.

- **Clean Water Act:**
  None of the chemicals in this product are listed as Hazardous Substances under the CWA.
  None of the chemicals in this product are listed as Priority Pollutants under the CWA.
  None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

- **OSHA:**
  None of the chemicals in this product are considered highly hazardous by OSHA.

- **STATE**
  CAS# 6004-24-6 is not present on state lists from CA, PA, MN, MA, FL or NJ.

- **California Prop 65**
  - **California No Significant Risk Level**
    None of the chemicals in this product are listed.

- **Canada - DSL/NDSL**
  CAS # 6004-24-6 is not specified in any of the list and there is no control measure imposed on the substance.
SECTION 16: OTHER INFORMATION

Compilation information of safety data sheet
Chemical: Cetylpyridinium chloride monohydrate.
CAS #: 6004-24-6
File Name: 0189A04 Div.03 sds Cetylpyridinium chloride monohydrate.
Revision Number: 04
Date of Issue of SDS: June 24, 2013
Revision Due Date: May, 2015

(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.
- 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.
Safety Data Sheet
As per Globally Harmonized System (GHS)

Product Identification: Cetylpyridinum chloride monohydrate

Date of issue: June 24, 2013

- REACH = Registration, Evaluation, 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:

Information contained in this SDS is believed to be correct 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. This SDS shall be used as a guide only. Jubilant Life Sciences Limited makes no warranties expressed or implied of the adequacy of this document for any particular purpose.

(End of Safety Data Sheet)