SAFETY DATA SHEET

Product code: FD150
Product name: FDANDC YELLOW NO. 5
### 1. IDENTIFICATION

**Synonyms:**
- Pyrazole-3-carboxylic acid, 5-hydroxy-1-(p-sulfophenyl)-4-(p-sulfophenyl)azo-trisodium salt
- Acid Leather Yellow T/Acid Yellow 23/Acid Yellow T
- Acilan Yellow GG
- A.F. Yellow No. 4
- Airedale Yellow T
- Aizen tartrazine
- Amacid Yellow T
- Atul Tartrazine
- C.I. Acid Yellow 23/C.I. Food Yellow 4
- Cilefa Yellow T
- Curon Fast Yellow 5G
- Dolkwal tartrazine
- Edicol Supra Tartrazine N
- Egg Yellow A
- Erlo Tartrazine
- Eurocert tartrazine
- Fenazo Yellow T
- Food Yellow 4/Food Yellow 5
- Hydroyxine Yellow L
- Maple Tartrazol Yellow
- Mitsui tartrazine
- Naphtocard Yellow O
- Neklacid Yellow T
- Oxanal Yellow T
- Bucacid tartrazine
- Calcocid Yellow MCG/Calcocid Yellow XX
- Canacert tartrazine
- 3-Carboxy-5-hydroxy-1-p-sulfophenyl-4-p-sulfophenylazopyrazole trisodium salt
- Certicol Tartrazol Yellow S
- HD tartrazine/HD Tartrazine Supra
- Hexacert Yellow No. 5
- Hexacol tartrazine
- Hidazid tartrazine
- Hispacid Fast Yellow T
- Hydrazine Yellow
- Kako tartrazine
- Kayaku Food Colour Yellow No. 4
- Kca Tartrazine PF
- Kiton Yellow T
- Lake Yellow
- Lemon Yellow A
- Sugai tartrazine
- Tartar Yellow
- Tartran Yellow
- Tartraphenine
- Tartrazine
- Tartrazol BPC/Tartrazol Yellow
- Tartrine Yellow O
- Trisodium 3-carboxy-5-hydroxy-1-p-sulfophenyl-4-p-sulfophenylazopyrazole
- Trisodium salt of 3-carboxy-5-hydroxy-1-sulfophenylazopyrazole
- Uniterracid Yellow TE
- Usacert Yellow No. 5
- Vondacid tartrazine
- Wool Yellow
- Xylene Fast Yellow GT
- Y-4

**Product code:** FD150  
**Product name:** FDANDC YELLOW NO.
1. IDENTIFICATION

1310 Yellow
1409 Yellow
Yellow Lake 69
Yellow No. 5

CAS #: 1934-21-0
RTECS # UQ6400000
CI#: 19140

Recommended use of the chemical and restrictions on use
Uses advised against: No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number: Chemtrec 1-800-424-9300

Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th></th>
<th>Category</th>
</tr>
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<tbody>
<tr>
<td>Respiratory sensitization</td>
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<tr>
<td>Skin sensitization</td>
<td>1</td>
</tr>
<tr>
<td>Combustible dust</td>
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</tr>
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</table>

Label elements

Danger

Hazard statements
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May form combustible dust concentrations in air

Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Not available
Precautionary Statements - Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Keep away from all ignition sources including heat, sparks, and flame
Keep container closed and grounded
Prevent dust accumulations to minimize explosion hazard
Wear protective gloves
Wear respiratory protection

Precautionary Statements - Response
Specific treatment (see .? on this label)
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
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<td>FD&amp;C Yellow #5</td>
<td>1934-21-0</td>
<td>100</td>
<td>*</td>
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</table>

4. FIRST AID MEASURES

First aid measures
General Advice: Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed
Symptoms May cause eye/skin irritation. Dust may cause respiratory tract irritation. Coughing and wheezing. May cause sensitization by inhalation and skin contact. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction.

Indication of any immediate medical attention and special treatment needed
Notes to Physician: Treat symptomatically

Protection of first-aiders
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Product code: FD150  Product name: FDANDC YELLOW NO.
5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray, mist, or foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon oxides, Nitrogne oxides, Sulfur oxides, Sodium oxides

Specific hazards:
May be combustible at high temperatures
Avoid generating dust
Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters:
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition. Avoid dust formation. Avoid dispersal of dust in the air. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up: Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:
Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials. Keep away from open flames, hot surfaces and sources of ignition. Avoid dust formation. Minimize dust generation and accumulation. Dry powders can build static electricity charges when subjected to friction of transfer and mixing operations. All equipment used when handling the product must be grounded. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Product code: FD150 Product name: FDANDC YELLOW NO.
Safe Handling Advice
Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Keep away from heat and sources of ignition. Use only in well-ventilated areas. Do not breathe vapours/dust. Do not ingest. When using do not smoke. Avoid dust formation. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:
Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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Canada

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<tr>
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Australia and Mexico

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Appropriate engineering controls

Engineering measures to reduce exposure:
Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment). It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in the handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles.

Product code: FD150  Product name: FDANDC YELLOW NO.
Skin and body protection: Chemical resistant apron. Gloves. Long sleeved clothing.

Respiratory protection: Effective dust mask. Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Do not breathe dust. When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
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<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
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<tr>
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<td>Granular powder.</td>
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<td></td>
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</table>

### 10. STABILITY AND REACTIVITY

**Reactivity**
Reactive with oxidizing agents

**Chemical stability**
Stability: Stable under recommended storage conditions

**Possibility of Hazardous Reactions:**
Hazardous polymerization does not occur

**Product code:** FD150  **Product name:** FDANDC YELLOW NO.
**Conditions to avoid:**
Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Incompatible materials.

**Incompatible Materials:**
Oxidizing agents.

**Hazardous decomposition products:**

**Other Information**

**Corrosivity:**
No information available

**Special Remarks on Corrosivity:**
No information available

---

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Principal Routes of Exposure:**
Ingestion. Inhalation. Skin.

**Acute Toxicity**

**Component Information**

*FD&C Yellow #5 - 1934-21-0*

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
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</thead>
<tbody>
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<tr>
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</table>

**Product code:** FD150

**Product name:** FDANDC YELLOW NO.
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation. May cause sensitization by skin contact. May cause allergic skin reaction.

Eye Contact: May cause eye irritation.

Inhalation Inhalation of dust may cause respiratory tract irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Ingestion It may affect the peripheral nervous system (parethesia) and musculoskeletal system (changes in teeth and supporting structures)

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Chronic exposure may affect the liver and kidneys. Prolonged or repeated exposure may cause allergic respiratory and skin reactions.

Sensitization: May cause sensitization by inhalation and skin contact

Mutagenic Effects: May affect genetic material
Cytogenic analysis (hamster lung)
Cytogenic Analysis: human lymphocyte
Mutations in microorganisms
Experiments with bacteria and/or yeast have shown mutagenic effects

Carcinogenic Effects: Not considered carcinogenic

<table>
<thead>
<tr>
<th>Components</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD&amp;C Yellow #5</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Reproductive toxicity No data is available

Reproductive Effects: May cause adverse reproductive effects based on animal data
Registry of Toxic effects of Chemical Substances (RTECS) notes reproductive effects for animal studies on male mice after oral administration (Paternal effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count), testes, epididymis, sperm duct

Developmental Effects: May cause adverse developmental effects based on animal data

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available
STOT - repeated exposure No information available

12. ECOLOGICAL INFORMATION

Product code: FD150 Product name: FDANDC YELLOW NO.
12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: May be harmful to the aquatic environment.

*FD&C Yellow #5 - 1934-21-0*

- **Freshwater Fish Species Data:** >1000 ppm LC50 Oryzias latipes 48h
- **Water Flea Data:** 5706.6 mg/L EC50 Ceriodaphnia dubia 48h

 Persistence and degradability: No information available

 Bioaccumulative potential: No information available

 Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

**Waste from residues / unused products:**
Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**
Empty containers should be taken for local recycling, recovery or waste disposal

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<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>FD&amp;C Yellow #5</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

**DOT**

- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Subsidiary Risk:** No information available
- **Packing Group:** None
- **ERG No:** No information available
- **Marine Pollutant:** No data available
- **DOT RQ (lbs):** No information available

**TDG (Canada)**

- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Subsidiary Risk:** No information available
- **Packing Group:** No information available
- **Description:** No information available

**ADR**

- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available

**Product code:** FD150 **Product name:** FDANDC YELLOW NO.
14. TRANSPORT INFORMATION

Packing Group: No information available
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
MFA9: No information available
Maximum Quantity: No information available

RID
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Classification Code: No information available
Description: No information available

ICAO
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Description: No information available

IATA
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Description: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD&amp;C Yellow #5</td>
<td>Present</td>
<td>Present KE-06857</td>
<td>Present</td>
<td>Present (5)-1402</td>
<td>Present</td>
<td>Present</td>
<td>Present 217-699-5</td>
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</table>

U.S. Regulations

FD&C Yellow #5

FDA - 21 CFR - Total Food Additives 176.170 178.1010 178.3297 74.1705 74.2705 74.705 82.705

Product code: FD150  Product name: FDANDC YELLOW NO.
FD&C Yellow #5


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD&amp;C Yellow #5</td>
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<td>Not Listed</td>
<td>Not Listed</td>
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</tr>
</tbody>
</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD&amp;C Yellow #5</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
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</tbody>
</table>

U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD&amp;C Yellow #5</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Canada

WHMIS hazard class:
D2B  Toxic materials

FD&C Yellow #5
D2B

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
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</thead>
<tbody>
<tr>
<td>FD&amp;C Yellow #5</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD&amp;C Yellow #5</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

EU Classification

R-phrase(s)
R42/43 - May cause sensitization by inhalation and skin contact.

S -phrase(s)
S22 - Do not breathe dust.
S24/25 - Avoid contact with skin and eyes.

Product code: FD150  Product name: FDANDC YELLOW NO. 12 / 13
The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Xi - Irritant.

**16. OTHER INFORMATION**

**Preparation Date:** 8/27/2015  
**Revision Date:** 8/27/2015  
**Prepared by:** Sonia Owen

**Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet