# Material Safety Data Sheet

## STABAXOL I LF 22P/660S

### RHEIN CHEMIE CORPORATION
145 Parker Court  
Chardon, OH 44024

**TRANSPORTATION EMERGENCY**  
CALL CHEMTREC...........: (800) 424-9300  
INTERNATIONAL ..........: (703) 527-3887

**NON-TRANSPORTATION**  
RCC EMERGENCY PHONE : (440) 285-3547  
RCC INFORMATION PHONE: (800) 289-2436

## Section 1: Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>STABAXOL I LF 22P/660S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article Number</td>
<td>56477695</td>
</tr>
<tr>
<td>Chemical Family</td>
<td>Substituted Diaryl Carbodiimide</td>
</tr>
<tr>
<td>Synonyms</td>
<td>Aromatic Carbodiimide</td>
</tr>
</tbody>
</table>

## Section 2: Composition/Information on Ingredients

### HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient Name/ CAS Number</th>
<th>Exposure Limits</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substituted Diaryl Carbodiimide CAS# is a trade secret</td>
<td>OSHA (PEL): Not Established</td>
<td>95%</td>
</tr>
<tr>
<td></td>
<td>ACGIH (TLV): Not Established</td>
<td></td>
</tr>
</tbody>
</table>

### OTHER INGREDIENTS

The following potentially hazardous chemical(s) are contained at levels below OSHA reporting requirements, but may be released during processing.

<table>
<thead>
<tr>
<th>Ingredient Name/ CAS Number</th>
<th>Exposure Limits</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disopropylphenyl Isocyanate (DIPPI) 28178-42-9</td>
<td>OSHA (PEL): Not Established</td>
<td>0.01%</td>
</tr>
<tr>
<td></td>
<td>ACGIH (TLV): Not Established</td>
<td></td>
</tr>
</tbody>
</table>

## Section 3: Hazards Identification
EMERGENCY OVERVIEW

May cause mechanical irritation to the eyes, skin and respiratory tract. May cause eye, skin, and respiratory tract irritation. Melted product is flammable and produces intense heat and dense smoke during burning. Irritating gases/fumes may be given off during burning or thermal decomposition.

POTENTIAL HEALTH EFFECTS

Route(s) of Entry: Inhalation, Skin Contact, Eye Contact, Ingestion

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

Inhalation Hazards
Acute Inhalation Hazards: May cause mechanical irritation to the respiratory tract. Dusts generated from this product may irritate the respiratory tract.

Chronic Inhalation Hazards: Expected to be similar to those for acute inhalation.

Skin Hazards
Acute Skin Hazards: This product may cause skin irritation.

Chronic Skin Hazards: Based on component information repeated and prolonged contact may cause defatting of the skin which may result in dermatitis and effects as detailed in acute exposure.

Eye Hazards
Acute Eye Hazards: Dust, fumes, or mists created by this product may cause some irritation with redness and pain.

Chronic Eye Hazards: None reported for the product.

Ingestion Hazards
Acute Ingestion Hazards: Not a likely route of exposure.

Chronic Ingestion Hazards: None reported

Carcinogenic Components:
NTP: None
IARC: None
OSHA: None

Medical Conditions Aggravated by Exposure: May aggravate existing eye, skin or respiratory conditions.

Section 4: First Aid Measures

First Aid for Eye: Get medical attention if irritation develops or persists. In case of contact, flush eyes with large quantities of water for at least 15
minutes.

First Aid for Skin: Immediately remove contaminated clothing and shoes. Wash clothing and clean shoes before reuse. In case of skin contact, wash affected areas with soap and water. Get medical attention if irritation develops or persists.

First Aid for Inhalation: If not breathing, give artificial respiration. Call a physician. If inhaled, remove to fresh air. If breathing is difficult, give oxygen.

First Aid for Ingestion: If material is ingested, do not induce vomiting unless directed to do so by medical personnel. Give victim one or two glasses of water or milk. Never give anything by mouth to an unconscious person. Should vomiting occur, keep patients head below hip level to prevent aspiration of fluid into the lungs.

Note to Physician: Treat symptomatically.

Section 5: Fire Fighting Measures

Flash Point: 381.2 °F (194 °C) ISO 2592

Flammable Limits:
Upper Explosion Limit (UEL %): Not Established
Lower Explosion Limit (LEL %): Not Established

Auto-ignition Temperature: 806 °F (430 °C) DIN 51794

Extinguishing Media:
Suitable: Water, Dry Chemical, Foam, Carbon Dioxide, Water spray for large fires.

Special Fire Fighting Procedures:
Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by firefighters. During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion. Use cold water spray to cool fire exposed containers.

Unusual Fire/Explosion Hazards: None known.

Section 6: Accidental Release Measures

Spill or Leak Procedures: Extinguish all ignition sources. Keep unnecessary personnel out of spill area. If molten material is spilled, allow it to solidify. Remove mechanically by method which minimizes generation of airborne dust, and place in appropriately marked containers for disposal. Place in properly marked containers for disposal. Remove containers to a safe place.

Other Accidental Release: Rhein Chemic requires that CHEMTREC be immediately notified.
Notes: (800-424-9300) when this product is unintentionally released from its container during its course of distribution, regardless of the amount released. Distribution includes transportation, storage incidental to transportation, loading and unloading. Such notification must be immediate and made by the person having knowledge of the release.

Section 7: Handling and Storage

Storage Temperature:
- Minimum: 40 °F (4 °C)
- Maximum: 120 °F (49 °C)

Shelf Life: Not Determined


Handling/Storage Precautions: Vent storage bins, conveyors, dust collectors, ground handling equipment, etc. All handling equipment should be properly grounded to prevent the build-up of electrostatic charges. Keep open flames, sparks and heat away from dusty areas. Handle in accordance with good industrial hygiene and safety practices. Keep container tightly closed when not in use. Do not reseal container if contamination is suspected. Avoid contact with eyes and skin. Avoid contact with skin or clothing.

Section 8: Exposure Controls/Personal Protection

Personal Protection Equipment
Eye Protection Requirements: Chemical safety goggles, full-face shield.

Skin Protection Requirements: Chemically resistant gloves recommended (neoprene). Cover as much of the exposed skin area as possible with appropriate clothing, coveralls, apron and boots. If skin creams are used, keep the area covered by the cream to a minimum.

Ventilation Requirements: Use local exhaust ventilation if dusting or misting is a problem, to maintain air levels below the recommended exposure limit. Thermal processing equipment should be ventilated to control gases and fumes given off during processing. Ventilation equipment should be explosion-proof if explosive concentrations of dust, vapor or fume are present.

Respirator Requirements: Observe OSHA regulations for respirator use (29 CFR 1910.134.) Under conditions of frequent use or heavy exposure, A NIOSH/MSHA respirator is recommended.

Additional Protective Measures: The greatest potential for injury occurs when working with molten polymeric resins, such as during a purge of a molding machine, extruder and the like. During this type of operation it is essential that all workers in the immediate area wear eye protection and skin protection (sleeves, gloves, etc.) as protection from thermal burns.
Purgings should be collected as small flat thin shapes or thin strands to allow for rapid cooling. Precautions should be taken against auto-ignition of hot, thick masses of the plastic. Quench with water. Grinder dust is an exposure hazard. Safety showers and eyewash stations should be accessible to the work area. Educate and train employees on the safe use and handling of this product. Follow all label instructions.

Section 9: Physical and Chemical Properties

Physical Form: Solid
Appearance: Crystalline (waxy)
Color: White to Pale Yellow
Odor: Slight Odor
Odor Threshold: Not Established
pH: Not Applicable
Melting/Freezing Point: 104 - 113 °F (40 - 45 °C)
Viscosity: 16 - 24 mPa.s @ 50 °C Not Applicable
Solubility in Water: Essentially Insoluble
Solubility (non Aqueous): Soluble in Acetone
Specific Gravity: No Data Available
Bulk Density: 0.97 g/cm³ @ 20 °C
Vapor Pressure: Approximately 6 hPa @ 410 °F (210 °C)
VOC by Weight: Not Established
HOC by Weight: None

Section 10: Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur
Substances to Avoid: Amines, strong bases, alcohols.
Conditions to Avoid: Ground materials are capable of dust explosion. Decomposition may begin at temperatures of approximately 120 °C and above. Slight decomposition may occur at or above the melting point.
Decomposition Temperature: Not Established
Decomposition Products: By fire or thermal decomposition: Carbon monoxide (CO), carbon dioxide (CO2), oxides of nitrogen (NOx), traces of hydrogen cyanide (HCN), 2,6-diisopropylphenyl isocyanate (DIPPI), aniline derivatives, and carbamates may be produced.

Section 11: Toxicological Information

Toxicity Data for STABAXOL I LF 22P/660S
Toxicity Note: No data available for this product.
Toxicity Data for Substituted Diaryl Carbodiimide

Acute oral toxicity: LD50 = > 300 mg/kg (Rat)

Acute dermal toxicity: LD50 = 200 mg/kg (Rat)

Eye Irritation: Slightly irritating (Rabbit)

Skin Irritation: Moderately irritating (Rabbit)

Section 12: Ecological Information

Ecological Data for STABAXOL I LF 22P/660S
Ecological Note: No data available for this product.

Ecological Data for Substituted Diaryl Carbodiimide
Fish Toxicity: 6,727 mg/L, 96 hrs. Zebra fish (Brachydanio rerio)

Inhibition Bacteria: EC50: > 10,000 mg/L.

Ecological Note: Water Pollution Class WGK 1 - slightly hazardous to water (German Water Resources Act)

Section 13: Disposal Considerations

Waste Disposal Method: Disposal must be in compliance with federal, state and local environmental control regulations. If incinerated, toxic and corrosive combustion gases must be properly handled.

Empty Container Precautions: Empty container retains product residue and can be hazardous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks, static electricity, or other sources of ignition. Recondition or dispose of empty container in accordance with government regulations.

Section 14: Transportation Information

Technical shipping name: Aromatic Carbodiimide

Freight Class
Bulk: Plastic Materials
Package: Plastic Materials, O/T Exp. (Granules)

Product Label: Product Label Established

Domestic Surface Transportation (DOT)
Hazard Class or Division: Non-Regulated
Marine Transportation (IMO / IMDG)
Hazard Class Division: Non-Regulated
Number:

Air Transportation (ICAO / IATA)
Hazard Class Division: Non-Regulated
Number:

Section 15: Regulatory Information

United States Federal Regulations

OSHA Hazcom Standard Rating: Hazardous

TSCA Inventory List: On TSCA Inventory

CERCLA Hazardous Substance:
Component(s) None

Reportable Quantity

SARA Title III
SARA Section 302 Extremely Hazardous Substances:
Component(s)/CAS Number None

Concentration Min. Max.

SARA Section 311/312 Hazard Categories:
Immediate Health Hazard, Delayed Health Hazard

SARA Section 313 Toxic Chemicals:
Component(s)/CAS Number None

Reporting Threshold Concentration Min. Max.

RCRA Status:
If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

State Right-to-Know Information

Component(s)/CAS Number Substituted Diaryl Carbodiimide NJTSRN:000003321

State Code PA-N, NJ-N

Concentration 95%
State Code Translation Table
PA: N = Pennsylvania Non-hazardous
NJ: N = New Jersey Other - includes predominant ingredients

Foreign Chemical Inventory List(s)
EINECS (Europe): Listed
DSL (Canada): Listed
AICS (Australia): Listed
MITI (Japan): Listed
MOE (Korea): Listed
PICCS (Philippines): Listed

Section 16: Other Information

HMIS Rating

<table>
<thead>
<tr>
<th></th>
<th>0</th>
<th>1</th>
<th>2</th>
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<tbody>
<tr>
<td>Health</td>
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<tr>
<td>Flammability</td>
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<tr>
<td>Reactivity</td>
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0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe
* = Chronic Health Hazard

RHEIN CHEMIE CORPORATION's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by RHEIN CHEMIE CORPORATION as a customer service.

Contact: HES Dept.
Phone: (440) 285-3547
MSDS Number: 000000004881
Version Date: 02/23/2010
MSDS Version: 2.2

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