**MATERIAL SAFETY DATA SHEET (MAY 2010)**

***I. PRODUCT IDENTIFICATION***

***Superapid 401 Hotmelt Adhesive Cleaner***

for hotmelt edgebanders (glue pot type - *NOT RECOMMENDED*

*FOR USE IN CARTRIDGE SYSTEMS*) within the woodworking industry.

**CHEMICAL NAME:** mixed terphenyls with some higher polyphenyls

**FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT,**

**CALL (800) 397-1860, Monday-Friday, 8am to 5pm EST.**

***COMPOSITION/INFORMATION ON INGREDIENTS***

**Component CAS No. % by Weight**

terphenyls \* and higher polyphenyls 26140-60-3 100

\*Hazardous chemical(s) under the criteria of the OSHA Hazard Communication

Standard (29 CFR 1910.1200).

***II. HAZARDS IDENTIFICATION***

**EMERGENCY OVERVIEW**

**Appearance and Odor:** Yellow-white, non-crystalline solid with a mild,

sweet, aromatic odor

**NO SIGNIFICANT HAZARDS ASSOCIATED WITH THIS MATERIAL.**

**HEALTH HAZARD DATA**

**Primary routes of entry:** Inhalation & skin.

**Eye Contact:** No more than slightly irritating based on toxicity studies.

**Skin Contact:** No more than slightly irritating based on toxicity studies.

**Inhalation:** No more than slightly toxic if inhaled based on toxicity studies.

**Ingestion:** No more than slightly toxic based on toxicity tests. No significant adverse

health effects are expected to develop if only small amounts (less than a

mouthful) are swallowed.

Refer to Section 8 for toxicological information.

**EMERGENCY & FIRST AID PROCEDURES:**

**EYES:**  In case of contact, immediately flush with plenty of low pressure water

for at least 15 minutes. Remove any contact lenses to ensure thorough

flushing. Call a physician.

**SKIN:**  Wash with soap and running water.

**INHALATION:** Remove to fresh air. Treat any irritation symptomatically.

**INGESTION:**  If swallowed, do NOT induce vomiting. Call a physician.

***NOTE TO PHYSICIAN:*** No specific antidote. Supportive care. Treatment based

on judgment of the physician in response to reactions of

the patient.

***III. FIRE HAZARD DATA***

**Flash Point:** 196oC (385oF) **Method:** Pensky-Martens

**Autoignition temperature:** Greater than 1000oF **Method:** ASTM D-2155

**Flammable Limits in Air:** LEL - (% by volume) 1% (estimated)

UEL - (% by volume) 7% (estimated)

**Extinguishing Media:** In case of fire, use water spray (fog), dry chemical, foam,

or carbon dioxide

**Special firefighting procedures:** Firefighters and others exposed to products of combustion, should wear full protective clothing, including a self-contained

breathing apparatus. Thoroughly decontaminate equipment after use.

**Unusual fire & explosion hazards:** None

***IV. SPILL & DISPOSAL PROCEDURES***

**Steps to be taken if material is released or spilled:**

Sweep up spill. If molten, let solidify, then scrape and break up for reuse, if cleanliness of area permits.*Note: Spilled material may cause slippery hazard.*

**Waste disposal method:**

This material when discarded, may be a hazardous waste

as defined by the Resource Conservation and Recovery Act (RCRA), 40 CFR261.24,

due to its toxicity characteristic. EPA hazardous waste number D018, (benzene, 0.5mg/l).

This material should be analyzed in accordance with Method 1311 Toxicity Characteristic

Leaching Procedure (TCLP) and compared to the regulatory level. Dispose of in accordance

with local, state, and federal regulations. Consult your attorney or appropriate regulatory

officials for more information on such disposal.

***V. HANDLING & STORAGE***

**HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND REMOVAL OF MATERIAL FROM EYES, SKIN & CLOTHING.**

Emptied container retains vapor and product residue. Observe all labeled safeguards

until container is cleaned, reconditioned, or destroyed.

***VI. APPLICABLE CONTROL MEASURES***

**Appropriate hygienic practices:** Avoid contact with eyes, skin and clothing. Wash

thoroughly after handling, and before eating,

drinking or smoking.

**Personal protective equipment:** Safety glasses / goggles

Impervious gloves

Protective apron

Long Sleeves

Avoid breathing dust and/or vapors. Use

NIOSH/MSHA approved respiratory protection

equipment when airborne exposure limits are

exceeded. Consult respirator manufacturer to

determine appropriate type equipment for given

application. Observe respirator use limitations

specified by NIOSH/MSHA or the manufacturer.

Respiratory protection programs must comply with

29 CFR 1910.134.

**Work practices:** Keep away from sparks and open flame.

Eyewash fountains and safety showers should be

easily accessible.

**Handling & storage precautions:** Store in a cool, dry area.

**Engineering controls:** Adequate ventilation should be provided to keep

mist and vapor concentrations below acceptable

exposure limits. If practical, use local mechanical

exhaust ventilation at sources of air contamination

such as open process equipment.

**Protective measures during repair & maintenance:** Eliminate sources of ignition.

**AIRBORNE EXPOSURE LIMITS:**

OSHA PEL: 5 mg/m3 (0.5ppm) ceiling

ACGIH TLV: 5 mg/m3 (0.5ppm) ceiling

***VII. TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS***

**Appearance:**  yellow-white, non-crystalline solid

**Odor:**  mild, sweet aromatic

**Boiling Point:** 364oC - 418oC = (687oF - 784oF)

**Vapor Pressure @ 20oC:**  Not Applicable

**Vapor Density (Air = 1):** 8

**% Volatile (vol.):** Not Determined

**Softening Point:**  60oC (140oF) typical, completely liquid at 145oC (293oF)

**Solubility in Water:** Negligible

**Specific Gravity:**  1.13 typical

**pH:**  Not Applicable

**Evaporation Rate:**  Not Applicable

**Stability considerations:** Stable

**Incompatibility with:** Strong Oxidizers

**Hazardous decomposition products:** No uniquely hazardous decomposition

products are expected. If the product is burned, partial combustion produces

carbon monoxide, smoke, soot, low molecular weight hydrocarbons - complete

combustion produces carbon dioxide and water.

**Hazardous polymerization:** Does Not Occur

***VIII. TOXICOLOGICAL INFORMATION***

***Data from laboratory studies are summarized below:***

Single exposure (acute) studies indicate:

ORAL - Practically Nontoxic (Rat LD50 - >50,000 mg/kg)

DERMAL - Practically Nontoxic (Rabbit LD50 - >12,500 mg/kg)

EYE IRRITATION - Practically Nonirritating (Rabbit, 0.7/110.0)

SKIN IRRITATION - Nonirritating (Rabbit, 24 hour exposure, 0.0/8.0)

*Superapid 401* has produced no genetic changes in a variety of standard tests using

animal or bacterial cells.

Components:

Data from laboratory studies and from the scientific literature on terphenyls, major

components of *Superapid 401* which have been identified under the criteria of the OSHA

Hazard Communication Standard (29 CFR 1910.1200):

Terphenyls

Ortho-, meta-, or para-terphenyl are slightly toxic to practically non-toxic by ingestion

(rats). Ortho- and meta-terphenyl have been reported to cause death in rats at

atmospheric concentrations of about 3.5mg/l. However, these deaths appeared to be

caused by the physical properties of the material as opposed to toxicity. Following

repeated exposures (30 days) to the terphenyls in their feed, reduced body weights and

increased kidney and/or liver weights (ortho- and meta-isomers only) were noted in rats.

No skin allergy was observed in guinea pigs following repeated injection of these

materials within skin, but skin damage was noted at the injection site.

***IX. ECOLOGICAL INFORMATION***

The following data have been classified using the criteria adopted by the European

Economic Community (EEC) for aquatic organism toxicity. A legend summarizing the

classification scheme appears below:

48-hr EC50 Daphnia magna: >0.27 mg/l, Very Toxic

96-hr TL50 Bluegill sunfish: 13.3 ppm, Harmful

96-hr LC50 Rainbow trout: 27 mg/l, Harmful

96-hr LC50 Fathead minnow: >1000 mg/l, Practically Nontoxic

96-hr EC50 Algae (Chlorophyll a): 0.015 mg/l, Very Toxic

96-hr EC50 Algae (Cell number): 0.020 mg/l, Very Toxic

**Legend for Aquatic Organism Toxicity (Journal of the European Communities,**

**Annex VII A, Section 5.2.1):**

VALUES: CLASSIFICATIONS:

LC50 or EC50 < 1.0 mg/L Very Toxic

LC50 or EC50 > 1.0 mg/L and < 10 mg/L Toxic

LC50 or EC50 > 10 mg/L < 100 mg/L Harmful

LC50 or EC50 > 100 mg/L Practically Nontoxic

*Superapid 401* was evaluated in a 24-hour semi-continuous activated sludge test. Primary degradation was approximately 5% to 19%. Biodegradability was classed as slow to resistant.

***X. TRANSPORT INFORMATION***

The data provided in this section is for information only. Please apply the appropriate

regulations to properly classify your shipment for transportation.

This product is not hazardous under the applicable DOT, ICAO/IATA, or IMDG

regulations.

***XI. REGULATORY INFORMATION***

TSCA Inventory: Listed

SARA Hazard Notification:

Hazard Categories Under Title III Rules (40 CFR 370): Not Applicable

Section 313 Toxic Chemical(s): Not Applicable

CERCLA Reportable Quantity: Not Applicable

Refer to Section 1 for OSHA Hazardous Chemical(s) and Section 4 for RCRA

classification.

***SEE ALSO: SUGGESTIONS FOR USE SHEET***

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