

SUPERAPID 401, ADHESIVE GLUE POT CLEANER

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Superapid 401 Hotmelt Adhesive Cleaner

for hotmelt edgebanders (glue pot type) within the woodworking industry.

NOT RECOMMENDED FOR USE IN CARTRIDGE SYSTEMS

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

<u>Component</u>	<u>CAS No.</u>	<u>% by Weight</u>
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: 196°C (385°F)	Method: Pensky-Martens
Autoignition temperature: Greater than 1000°F	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 slipperiness 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:	364°C - 418°C = (687°F - 784°F)
Vapor Pressure @ 20°C:	Not Applicable
Vapor Density (Air = 1):	8
% Volatile (vol.):	Not Determined
Softening Point:	60°C (140°F) typical, completely liquid at 145°C (293°F)
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:

LC₅₀ or EC₅₀ < 1.0 mg/L
LC₅₀ or EC₅₀ > 1.0 mg/L and < 10 mg/L
LC₅₀ or EC₅₀ > 10 mg/L < 100 mg/L
LC₅₀ or EC₅₀ > 100 mg/L

CLASSIFICATIONS:

Very Toxic
Toxic
Harmful
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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