



**CHEMICAL ASSOCIATES**  
1270 South Cleveland-Massillon Road  
Building B  
Copley, OH 44321-1683

## MATERIAL SAFETY DATA SHEET

**EMERGENCY PHONE: 800-347-2891**  
**MSDS REFERENCE: CA0380**

**CHEMTREC: 800-424-9300**

### SECTION I - IDENTIFICATION

**PRODUCT:** CA0380 TALL OIL HEADS  
**SYNONYMS:** TALL OIL FATTY ACIDS; TALL OIL LIGHT ENDS; TALL OIL HEADS  
**CHEMICAL:** ALIPHATIC CARBOXYLIC ACIDS  
**CAS NO:** 65997-03-7  
**SARA HAZARD:** NONE NOTED (SECTION 302/304)  
NONE NOTED (SECTION 311/312)  
TITLE III SECTION 313 NOT LISTED

### SECTION II - INGREDIENTS AND HAZARD CLASSIFICATION

COMPOSITION	TYPICAL %	PEL/TLV	HAZARD
CARBOXYLIC ACIDS	65	NONE / NONE	NONE NOTED
UNSATONIFIABLES	25	NONE / NONE	NONE NOTED
ROSIN ACIDS	10	NONE / NONE	NONE NOTED

### SECTION III - HEALTH INFORMATION

**INHALATION:** UNKNOWN

**INGESTION:** RATS FED UP TO 25% OF A SIMILAR PRODUCT IN THE DIET FOR 90 DAYS EXPERIENCED NO DOSE-RELATED EFFECTS.

**EYE CONTACT:** CARBOXYLIC ACIDS PRODUCE SLIGHT EYE IRRITATION IN RABBITS AND GUINEA PIGS.

**SKIN CONTACT:** NOT TOXIC BY OSHA/ANSI CRITERIA BASED ON ACUTE ANIMAL PERORAL TESTING OF A SIMILAR PRODUCT. PRODUCED SLIGHT SKIN IRRITATION IN RABBITS AND GUINEA PIGS.

### SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

**PEL:** NO OSHA PEL  
**TLV:** NO ACGIH TLV

## SECTION V - EMERGENCY FIRST AID PROCEDURE

- INGESTION:** CALL A PHYSICIAN OR POISON CONTROL CENTER PROMPTLY.
- INHALATION:** IMMEDIATELY REMOVE VICTIM TO FRESH AIR. IF VICTIM HAS STOPPED BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY BY MOUTH TO MOUTH. GET MEDICAL ATTENTION IF COUGH OR OTHER SYMPTOMS DEVELOP.
- EYE CONTACT:** IMMEDIATELY FLUSH EYES WITH PLENTY OF COOL WATER FOR AT LEAST 15 MINUTES. DO NOT LET VICTIM RUB EYES. GET MEDICAL ATTENTION IMMEDIATELY.
- SKIN CONTACT:** WASH AFFECTED AREA WITH SOAP AND WATER.

## SECTION VI - PHYSICAL DATA

<b>VOLATILE (Wt.), %</b>	NEGLIGIBLE AT 20 ° C
<b>SOLUBILITY IN WATER:</b>	SLIGHTLY SOLUBLE IN WATER
<b>SPECIFIC GRAVITY:</b>	0.90
<b>VAPOR PRESSURE:</b>	< 1 mmHg AT 20 ° C
<b>VAPOR DENSITY:</b>	HEAVIER THAN AIR
<b>EVAPORATION RATE:</b>	SLOWER THAN BUTYL ACETATE
<b>BOILING POINT:</b>	> 662 ° F, > 350 ° C
<b>FREEZING POINT:</b>	CONGEALS BELOW 60 ° C (140 ° F)
<b>MELTING POINT:</b>	NOT REPORTED
<b>APPEARANCE AND COLOR:</b>	MUSHY SEMI-SOLID TO VISCOUS LIQUID, DARK TO AMBER COLOR

## SECTION VII - FIRE AND EXPLOSION HAZARDS

<b>FLASH POINT AND METHOD USED:</b>	> 300 ° F, > 149 ° C
<b>AUTOIGNITION TEMPERATURE:</b>	600-700 ° F, 315-371 ° C
<b>FLAMMABLE LIMITS IN AIR, % BY VOL. LOWER:</b>	NOT ESTABLISHED
<b>FLAMMABLE LIMITS IN AIR, % BY VOL. UPPER:</b>	NOT ESTABLISHED
<b>HMIS RATING: HEALTH: (1) FIRE: (1)</b>	<b>REACTIVITY: (0)</b>

### SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

INDIVIDUALS SHOULD PERFORM ONLY THOSE FIRE PROCEDURES FOR WHICH THEY HAVE BEEN TRAINED. WATER OR FOAM MAY CAUSE FROTHING WHEN APPLIED TO FLAMMABLE LIQUIDS HAVING FLASH POINTS ABOVE 212 DEG F (100 DEG C). THE REMARK IS INCLUDED ONLY AS A PRECAUTION AND DOES NOT MEAN THAT WATER OR FOAM SHOULD NOT OR COULD NOT BE USED IN FIGHTING FIRES IN SUCH LIQUIDS. THE FROTHING MAY BE QUITE VIOLENT AND COULD ENDANGER THE LIFE OF THE FIREFIGHTER PARTICULARLY WHEN SOLID STREAMS ARE DIRECTED INTO THE HOT BURNING LIQUID. ON THE OTHER HAND, WATER SPRAY CAREFULLY APPLIED HAS FREQUENTLY BEEN USED WITH SUCCESS IN EXTINGUISHING SUCH FIRES BY CAUSING THE FROTHING TO OCCUR ONLY ON THE SURFACE AND THIS FOAMING ACTION BLANKETS THE EXTINGUISHES THE FIRE. (NFPA 325M-1984)

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS IN THE POSITIVE-PRESSURE MODE WITH A FULL FACEPIECE WHEN THERE IS A POSSIBILITY OF EXPOSURE TO SMOKE, FUMES OR HAZARDOUS DECOMPOSITION

PRODUCTS. SPONTANEOUS COMBUSTION MAY OCCUR IF RAGS OR TRASH SOAKED WITH THIS MATERIAL ARE CONFINED IN PILES OR BINS. SOAKED VESSEL OR PIPING INSULATION MAY BE SUBJECT TO SPONTANEOUS COMBUSTION.

#### SECTION VIII - REACTIVITY

<b>STABILITY:</b>	GENERALLY STABLE
<b>HAZARDOUS POLYMERIZATION:</b>	NONE LIKELY
<b>CONDITIONS AND MATERIALS TO AVOID:</b>	NONE KNOWN
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	CARBON MONOXIDE AND CARBON DIOXIDE.

#### SECTION IX - EMPLOYEE PROTECTION

##### **CONTROL MEASURES:**

AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. WASH THOROUGHLY AFTER HANDLING, AND BEFORE EATING, DRINKING OR SMOKING. REMOVE CONTAMINATED CLOTHING PROMPTLY AND CLEAN THOROUGHLY BEFORE REUSE.

##### **RESPIRATORY PROTECTION:**

RECOMMENDED EXPOSURE LIMITS (I.E., OSHA - PEL AND AOGIH - TLV) HAVE NOT BEEN ESTABLISHED FOR THIS MATERIAL. WHETHER THERE IS A NEED FOR RESPIRATORY PROTECTION UNDER YOUR CONDITIONS OF HANDLING OF THIS MATERIAL SHOULD BE EVALUATED BY A QUALIFIED HEALTH SPECIALIST. IF THIS MATERIAL IS HEATED TO TEMPERATURES SUFFICIENT TO PRODUCE SMOKE OR FUMES, THE TLV-TWA OF 0.1 mg/m<sup>3</sup> (AS FORMALDEHYDE) FOR ROSIN CORE SOLDER PYROLYSIS PRODUCTS SHOULD BE OBSERVED.

##### **PROTECTIVE CLOTHING:**

WEAR GLOVES AND PROTECTIVE CLOTHING WHICH ARE IMPERVIOUS TO THE PRODUCT FOR THE DURATION OF ANTICIPATED EXPOSURE IF THERE IS POTENTIAL FOR PROLONGED OR REPEATED SKIN CONTACT.

##### **EYE PROTECTION:**

WEAR SAFETY GLASSES MEETING THE SPECIFICATIONS OF ANSI STANDARD Z87.1 WHERE NO CONTACT WITH THE EYE IS ANTICIPATED. CHEMICAL SAFETY GOGGLES MEETING THE SPECIFICATIONS OF ANSI STANDARD Z87.1 SHOULD BE WORN WHENEVER THERE IS THE POSSIBILITY OF SPLASHING OR OTHER CONTACT WITH THE EYES.

#### SECTION X - ENVIRONMENTAL PROTECTION

##### **ENVIRONMENTAL PRECAUTIONS:**

AVOID UNCONTROLLED RELEASES OF THIS MATERIAL. WHERE SPILLS ARE POSSIBLE, A COMPREHENSIVE SPILL RESPONSE PLAN SHOULD BE DEVELOPED AND IMPLEMENTED. DISCHARGE FROM VENTILATION SYSTEM SHOULD COMPLY WITH APPLICABLE AIR POLLUTION CONTROL REGULATIONS.

##### **SPILL OR LEAK PRECAUTIONS:**

WEAR APPROPRIATE RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING AS DESCRIBED IN SECTION IX. CONTAIN SPILLED MATERIAL. TRANSFER TO

SECURE CONTAINERS. WHERE NECESSARY, COLLECT USING ABSORBENT MEDIA. IN THE EVENT OF AN UNCONTROLLED RELEASE OF THIS MATERIAL, THE USER SHOULD DETERMINE IF THE RELEASE IS REPORTABLE UNDER APPLICABLE LAWS AND REGULATIONS. COMPLETELY ISOLATE AND THOROUGHLY CLEAN ALL EQUIPMENT, PIPING OR VESSELS BEFORE BEGINNING MAINTENANCE OR REPAIRS. KEEP AREA CLEAN. PRODUCT WILL BURN.

**WASTE DISPOSAL:**

ALL RECOVERED MATERIAL SHOULD BE PACKAGED, LABELED, TRANSPORTED, AND DISPOSED OR RECLAIMED IN CONFORMANCE WITH APPLICABLE LAWS AND REGULATIONS AND IN CONFORMANCE WITH GOOD ENGINEERING PRACTICES. AVOID LANDFILLING OF LIQUIDS. RECLAIM WHERE POSSIBLE.

**SECTION XI - REGULATORY CONTROLS**

**DEPARTMENT OF TRANSPORTATION:**

**DOT CLASSIFICATION:** NOT REGULATED  
**DOT PROPER SHIPPING NAME:**  
**OTHER DOT INFORMATION:**

**OTHER REGULATORY REQUIREMENTS:**

LISTED IN TSCA INVENTORY

**CERCLA HAZARDOUS MATERIALS:**

NONE NOTED

**SECTION XII - RECAUTIONS: HANDLING, STORAGE AND USAGE**

THERE ARE NO UNUSUAL HAZARDS ASSOCIATED WITH HANDLING OF THIS PRODUCT. SPONTANEOUS COMBUSTION MAY OCCUR IN MATERIALS SOAKED WITH THIS PRODUCT. DISCARD CONTAMINATED RAGS, INSULATION AND OTHER CONTAMINATED MATERIALS PROPERLY.

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Chemical Associates bears responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

**CHEMICAL ASSOCIATES**  
**1270 SOUTH CLEVELAND-MASSILLON ROAD**  
**COPLEY, OHIO 44321-1683**

**DATE: 09/20/10**  
**REPLACES: 02/15/06**