

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration

Form Approved  
OMB No. 44-R1357

# MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

|                                                                                                 |                                                                                           |                                                    |
|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------|
| MANUFACTURER'S NAME<br><b>THE C. P. HALL COMPANY</b>                                            |                                                                                           | EMERGENCY TELEPHONE NO.<br><b>312-767-4605</b>     |
| ADDRESS (Number, Street, City, State, and ZIP Code)<br><b>7300 S. Central Chicago, IL 60638</b> |                                                                                           |                                                    |
| CHEMICAL NAME AND SYNONYMS<br><b>Tri Iso Octyl Trimellitate</b>                                 |                                                                                           | TRADE NAME AND SYNONYMS<br><b>PLASTHALL™ TIOTM</b> |
| CHEMICAL FAMILY<br><b>Esters</b>                                                                | FORMULA<br><b>C<sub>6</sub>H<sub>3</sub> (COOC<sub>8</sub>H<sub>17</sub>)<sub>3</sub></b> |                                                    |

## SECTION II - HAZARDOUS INGREDIENTS

| PAINTS, PRESERVATIVES, & SOLVENTS                     | % | TLV<br>(Units) | ALLOYS AND METALLIC COATINGS              | % | TLV<br>(Units) |
|-------------------------------------------------------|---|----------------|-------------------------------------------|---|----------------|
| PIGMENTS                                              |   |                | BASE METAL                                |   |                |
| CATALYST                                              |   |                | ALLOYS                                    |   |                |
| VEHICLE                                               |   |                | METALLIC COATINGS                         |   |                |
| SOLVENTS                                              |   |                | FILLER METAL<br>PLUS COATING OR CORE FLUX |   |                |
| ADDITIVES                                             |   |                | OTHERS                                    |   |                |
| OTHERS                                                |   |                |                                           |   |                |
| HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES |   |                |                                           | % | TLV<br>(Units) |
|                                                       |   |                |                                           |   |                |
|                                                       |   |                |                                           |   |                |
|                                                       |   |                |                                           |   |                |
|                                                       |   |                |                                           |   |                |

## SECTION III - PHYSICAL DATA

|                                 |                   |                                               |            |
|---------------------------------|-------------------|-----------------------------------------------|------------|
| BOILING POINT (°F.)             |                   | SPECIFIC GRAVITY (H <sub>2</sub> O=1) 25/25°C | .990       |
| VAPOR PRESSURE (mm Hg.) at 20°C | Negligible        | PERCENT VOLATILE BY VOLUME (%) at 70°F        | Negligible |
| VAPOR DENSITY (AIR=1)           |                   | EVAPORATION RATE (water = 1)                  | Negligible |
| SOLUBILITY IN WATER             | Negligible        |                                               |            |
| APPEARANCE AND ODOR             | Clear - mild odor |                                               |            |

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

|                                                                              |                                      |              |     |
|------------------------------------------------------------------------------|--------------------------------------|--------------|-----|
| FLASH POINT (Method used)<br><b>C.O.C. 480°F</b>                             | FLAMMABLE LIMITS<br><b>Not known</b> | Let          | Uet |
| EXTINGUISHING MEDIA<br><b>Water fog, foam, carbon dioxide, dry chemicals</b> |                                      |              |     |
| SPECIAL FIRE FIGHTING PROCEDURES                                             |                                      |              |     |
| None                                                                         |                                      | DO 087067    |     |
| UNUSUAL FIRE AND EXPLOSION HAZARDS                                           |                                      | CONFIDENTIAL |     |
| None                                                                         |                                      |              |     |

| SECTION V - HEALTH HAZARD DATA     |                                                                                                                                                                                                                                                                                     |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| THRESHOLD LIMIT VALUE              | Not Known                                                                                                                                                                                                                                                                           |
| EFFECTS OF OVEREXPOSURE            | Excessive fumes have disagreeable effect. In industry hazard rating considered low as to skin irritation, toxicity from ingestion or inhalation.                                                                                                                                    |
| EMERGENCY AND FIRST AID PROCEDURES | In case of skin contact, remove excess oil with cloth or absorbent paper, then wash with soapy water. In case of eye contact, remove excess oil with cloth or absorbent paper then wash with water. If excessive inhalation, remove to fresh air. Consult physician for discomfort. |

| SECTION VI - REACTIVITY DATA                                                       |                |   |                     |
|------------------------------------------------------------------------------------|----------------|---|---------------------|
| STABILITY                                                                          | UNSTABLE       |   | CONDITIONS TO AVOID |
|                                                                                    | STABLE         | X |                     |
| INCOMPATIBILITY (Materials to avoid)<br>None                                       |                |   |                     |
| HAZARDOUS DECOMPOSITION PRODUCTS<br>Carbon monoxide, carbon dioxide, organic acids |                |   |                     |
| HAZARDOUS POLYMERIZATION                                                           | MAY OCCUR      |   | CONDITIONS TO AVOID |
|                                                                                    | WILL NOT OCCUR | X |                     |

| SECTION VII - SPILL OR LEAK PROCEDURES                                                                                                                                                                                                                                                                            |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED<br>If material is hot or comes in contact with hot objects, fumes may result. Avoid excessive breathing of fumes. Remove sources of ignition. Dousing spilled oil with water may be an initial necessary safety step.                                   |  |
| WASTE DISPOSAL METHOD<br>Recover or collect major portion of oily plasticizer if possible with vacuum hose or other methods. Emulsify residual oil with water/detergent and further collect on solid absorbents. Follow with normal housekeeping methods. If spilled product not reusable, burn as fuel or waste. |  |

| SECTION VIII - SPECIAL PROTECTION INFORMATION                                                                                     |                                                                                     |                                                                 |  |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|--|
| RESPIRATORY PROTECTION (Specify type)<br>Use only for protection from excessive fumes or emergencies--not to supplant ventilation |                                                                                     |                                                                 |  |
| VENTILATION                                                                                                                       | LOCAL EXHAUST<br>Additional near mills, extruders, etc. to control excessive fumes. | SPECIAL                                                         |  |
|                                                                                                                                   | MECHANICAL (General)                                                                | OTHER                                                           |  |
| PROTECTIVE GLOVES<br>Oil resistant (for excessive contact)                                                                        |                                                                                     | EYE PROTECTION<br>Goggles or face shield to protect from splash |  |
| OTHER PROTECTIVE EQUIPMENT<br>Eliminate ignition sources.                                                                         |                                                                                     |                                                                 |  |

| SECTION IX - SPECIAL PRECAUTIONS                                                                                                                |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--|
| PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING<br>No special handling precautions are necessary; product has good stability in proper storage. |  |
| OTHER PRECAUTIONS                                                                                                                               |  |
|                                                                                                                                                 |  |