

Material Safety Data Sheet

U.S. Department of Labor

May be used to comply with

OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

Occupational Safety and Health
Administration

(Non-Mandatory Form)

Form Approved

OMB No. 1218-0072

IDENTITY (As Used on Label and List)
Shell Toluene Hal-Hen #563

Note: Blank spaces are not permitted. If any item is
not applicable, or no information is available, the
space must be marked to indicate that.

Section I

Manufacturer's Name HAL-HEN COMPANY, INC.	Emergency Telephone Number
Address (Number, Street, City, State, and ZIP Code) 180 ATLANTIC AVENUE GARDEN CITY PARK, NY 11040	Telephone Number for Information (516) 294-3200
	Date Prepared 09/2014
	Signature of Preparer (optional)

Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	%(optional)
Toluol; Methyl Benzene Methyl Benzene Aromatic Hydrocarbon				
Toluene— 100 Oral (rat) ~7.0 g/kg Dermal LD (rbt) = 14 g/kg Inh LC (rat) = 5,320 ppm (4 hr)				

Section III – Health Information

Acute Toxicity: Overexposure can lead to central nervous system depression
producing such effects as headache, dizziness, nausea, and loss of consciousness.

Eye Contact: Short term liquid or vapor contact may result in slight eye irritation. Prolonged and repeated contact may be more irritating.

Skin Contact: Prolonged and repeated liquid contact can cause defatting and drying of the skin which may result in skin irritation and dermatitis.

Inhalation: High concentrations or prolonged exposure to lower concentrations may be slightly irritating to mucous membranes.

Ingestion: Liquid ingestion may result in vomiting; aspiration (breathing) of vomitus into the lungs must be avoided as even small quantities in the lungs may result in chemical pneumonitis and pulmonary edema/hemorrhage.

Section IV – OCCUPATIONAL EXPOSURE LIMITS

ACGIH-TLV/TWA = 100PPM (Skin)

-TLV/STEL = 150 PPM (Skin)

OSHA-PEL/TWA = 200 PPM

-PEL/Ceiling = 300 ppm

Section V – EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with water for 15 minutes while holding eyelids open. Get medical attention.

SKIN CONTACT: Flush with water while removing contaminated clothing and shoes. Follow by washing with soap and water. Do not reuse clothing or shoes until cleaned. If irritation persists, get medical attention.

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

INGESTION: Do not induce vomiting. If vomiting occurs spontaneously, keep head-below-hips-to-prevent-aspiration-of-liquid-into-the-lungs. Get medical attention.*

***NOTE TO PHYSICIAN:** If more than 2.0 ml per kg has been ingested and vomiting has not occurred, emesis should be induced with supervision. Keep victim's head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

Section VI – Physical Data

Boiling Point(F) 231	Melting Point (F) --	Vapor Pressure (mmHg) 22@68 F	Specific Gravity (H2O = 1) 0.87
% Volatile by Volume 100			
Vapor Density (air = 1) 3.2			
Solubility in Water Negligible			
Evaporation in Water (Butyl Acetate = 1) 2.0		Appearance and odor: Colorless, mobile liquid. Aromatic, benzene- like odor.	

Section VII – Fire and Explosion Hazards

Flash Point and method Used: 40 F (Tcc)		
Flammable Limits % volume in air	Lower 1	Upper 7
Extinguishing Media: Use water fog, foam, dry chemical or CO2. Do not use a direct stream of water, Product will float and can re reignited on surface of water.		
Special Fire Fighting Procedures and Precautions: Evacuate hazard area of unprotected personnel. Wear proper protective clothing including a NIOSH approved self-contained breathing apparatus. Cool fire-exposed containers with water. In the case of large fires, also cool surrounding equipment and structures with water.		
Unusual Fire and Explosion Hazards		
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Section VIII - Reactivity

Stability	Stable
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Hazardous Polymerization will not occur

Hazardous Decomposition Products:

Carbon Monoxide and unidentified organic compounds may be formed during combustion.

Section IX – EMPLOYEE PROTECTION

RESPIRATORY PROTECTION – Use a NIOSH – approved respirator as required to prevent overexposure. In accord with 29 CFR 1910.134, use either an atmosphere – supplying respirator or an air – purifying respirator for organic vapors.

PROTECTIVE CLOTHING – Wear impervious gloves and protective clothing as required to prevent skin contact. Wear chemical goggles to prevent eye contact.

ADDITIONAL PROTECTIVE MEASURES – Use explosion – proof ventilation as required to control vapor concentrations.

SECTION X – ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES – Warning. Flammable. Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking.

Large Spills: Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak only if safe to do so. Dike and contain. If vapor cloud forms, water fog may be used to suppress; contain run-off. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such for proper disposal. Flush area with water to remove trace residue, dispose of flush solutions as above.

Small Spills: Take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.

WASTE DISPOSAL – Place in a disposal facility approved under RCRA regulations for hazardous waste (See sec. XIII). Use non-leaking containers, seal tightly and label properly.

ENVIRONMENTAL HAZARDS – This product is designated as a hazardous substance under the Clean Water Act. **KEEP OUT OF SURFACE WATERS OR SEWERS ENTERING OR LEADING TO SURFACE WATERS.** (See Section XIII).

SECTION XI – SPECIAL PRECAUTIONS

WARNING. FLAMMABLE LIQUID. Keep away from heat, sparks and open flames. Keep containers tightly closed. Store away from strong oxidizing agents in a cool, dry place with adequate explosion proof ventilation. Ground equipment to prevent accumulation of static charge. If pouring or transferring materials, containers must be bonded and grounded.

Do not weld, heat or drill on or near container; even emptied containers can contain explosive vapors.

Minimize skin contact. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse. Properly dispose of contaminated leather articles, including shoes, that cannot be decontaminated.

SECTION XII – TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION – Flammable Liquid.

DOT PROPER SHIPPING NAME- TOLUENE

OTHER REQUIREMENTS – DOT ID # = UN1294. GUIDE SHEET 27. RQ TOLUENE (1000 LB). ALSO SEE SEC XIII, CLEAN WATER ACT.

SECTION XIII – OTHER REGULATORY CONTROLS

EPA – CLEAN WATER ACT (CWA) This product is designated as a hazardous substance under Section 311 of the Clean water Act. Spills entering (a) surface waters or (b) any water courses or sewers entering/leading to surface waters must be reported immediately to the National Response Center, 800-424-8802. The reportable quantity for toluene is 1000 lb (137 gal)

EPA – Resource Conservation and Recovery Act (RCRA) Regulations. This product has been designated by the EPA (RCRA 40 CFR 261.33) as a hazardous waste if it is spilled, discarded or intended to be discarded as is. EPA hazardous waste number for toluene is U220.