

MATERIAL SAFETY DATA SHEET

THE HALLSTAR COMPANY

Section 1 - Identification of Substance and Company

Product Name: PARAPLEX® GA-20 80% - X

Product Code: 3798

Chemical Name: Polyester Plasticizer

Supplier: The HallStar Company ⁽¹⁾
120 S. Riverside Plaza Suite 1620
Chicago, IL 60606 PH: (877) 427-4255
USA

HMIS
Health: 2
Flammability: 3
Reactivity: 0
Gloves & Safety Glasses

Emergency Phone Numbers: The HallStar Company: (708) 594 - 5999
CHEMTREC: (800) 424 - 9300

Section 2 - Information on Ingredients

<u>Chemical Name:</u>	<u>CAS #:</u>
Polyester Plasticizer	Proprietary
Xylenes	1330-20-7
Ethyl Benzene	100-41-4

Section 3 - Hazard Identification

Appearance/Odor: Light yellow liquid, clear to slightly hazy.

Potential Health Effects

Skin Contact: Repeated or prolonged skin contact may cause irritation. Skin contact may aggravate an existing dermatitis condition.

Eye Contact: Vapors cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.

Ingestion: Ingestion causes burning sensation in mouth and stomach, nausea, vomiting and salivation. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

Inhalation: Inhalation of vapors may be irritating to the nose and throat. High vapor/aerosol concentrations are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effect, including death. Negligible hazard at ambient temperature (0 to 100°F)

Section 4 - First Aid Measures

Skin Contact: Wash affected skin with soap and water. Get medical attention if symptoms persist.

Eye Contact: Flush eyes with large amounts of water for at least 15 minutes. If irritation persists, consult a physician.

Ingestion: Aspiration hazard. If swallowed, vomiting may occur spontaneously, but DO NOT induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Get prompt medical attention.

Inhalation: Person should be moved to a fresh air environment.

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Section 5 - Explosion and Fire-Fighting Measures

Extinguishing Media: CO₂ , Dry Chemical, Foam
Special Fire-Fighting Procedures: A MSHA/NIOSH approved self contained breathing apparatus should be worn. Use water spray to cool fire-exposed containers.
Unusual Fire and Explosion Hazards: Combustible. Water may cause frothing.
Hazardous Combustion Products: Carbon monoxide, fumes

Section 6 - Accidental Release/Spill Procedures

Steps to be Taken in Case Material is Released or Spilled: Dike and contain the spill with inert material (ie: sand, earth, sawdust) and transfer liquid and solid diking material to separate containers for recovery or disposal. Wash floor area with hot water solution. Remove contaminated clothing and wash before reuse. Wash affected skin areas with soap and water. Keep spills out of all sewers and bodies of water.

Section 7 - Handling and Storage

Keep containers tightly closed and stored in a dry well-ventilated place. Keep away from heat and other sources of ignition. Use proper grounding procedures. Empty product containers may contain product residue.

Any use of this product in an elevated process, should be evaluated to establish and maintain safe operating procedures.

Section 8 - Personal Protection

OSHA Permissible Exposure Limit (PEL): Xylenes: 100 ppm TWA
Ethyl Benzene: 100 ppm TWA
ACGIH Threshold Limit Value (TLV): Xylenes: 100 ppm TWA; 150 ppm STEL; Carcinogen category A4
Ethyl Benzene: 100 ppm TWA; 125 ppm STEL

Hand Protection: Impervious gloves
Respiratory Protection: If engineering controls do not maintain airborne concentrations of xylene and ethyl benzene below recommended exposure limits, an approved respirator must be worn.
Eye Protection: Safety glasses
Engineering Measures: The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a lab hood.
Other: Eyewash facility in vicinity.

Section 9 - Physical and Chemical Properties

Boiling Point:	Unknown	Specific Gravity:	1.0715
Flash Point (COC):	80° F	Solubility in Water @ 25°C:	< 1%
Volatility (105°C/2 hours):	0.933 g/L	% Solids:	80%
Appearance and Odor:	Light yellow liquid, clear to slightly hazy.		

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Section 10 - Stability and Reactivity

Stability: This product is stable under normal conditions.
Conditions to Avoid: Strong oxidizing agents, concentrated nitric and sulfuric acids, halogen, and molten sulfur.
Hazardous Polymerization: Will not occur under normal circumstances.

Section 11 - Toxicological Information

Chronic Exposure: Chronic inhalation can cause headache, loss of appetite, nervousness and pale skin. Repeated or prolonged skin contact may cause a skin rash. Repeated exposure to the eyes of high concentrations of vapor may cause reversible eye damage. Repeated exposure can damage bone marrow, causing low blood cell count. May damage liver and kidneys.

Toxicological Data:

Xylene: Oral rat LD50: 4300 mg/kg; Inhalation rat LC50: 5000 ppm/4H; Skin rabbit LD50 > 1700 mg/kg; Irritation eye rabbit: 87 mg mild (Std. Draize); Irritation skin rabbit 500 mg/24 moderate (Std. Draize); investigated as a tumorigen, mutagen, reproductive effector. IARC Category 3.
Ethylbenzene: Oral rat LD50: 3500 mg/kg; Skin rabbit LD50: 17800 uL/kg; investigated as a tumorigen, mutagen, reproductive effector.

This product contains ethyl benzene. A draft report on a study conducted by the National Toxicology program states that lifetime inhalation exposure of rats and mice to concentrations of ethyl benzene (750 ppm) resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations of ethyl benzene (75 ppm or 250 ppm). The draft report does not address the relevance of these results to humans.

Reproductive Toxicity: May cause teratogenic effects.

Section 12 - Ecological Information

Environmental Fate: Following data for xylene: When released into the soil, this material may evaporate to a moderate extent, is expected to leach into groundwater, and may biodegrade to a moderate extent. When released into water, this material may evaporate to a moderate extent and biodegrade to a moderate extent. When released into air, this material may be moderately degraded by reaction with photochemically produced hydroxy radicals and is expected to have a half-life of less than 1 day. This material is not expected to significantly bioaccumulate. (mixed xylenes: octanol / water partition coefficient 3.1 - 3.2; bioconcentration factor = 1.3, eels)

Environmental Toxicity: Following data for xylene: This material is expected to be slightly toxic to aquatic life. The LC50/96-hour values for fish are between 10 and 100 mg/l.

Section 13 - Disposal Considerations

Waste Disposal Methods: Material should be disposed of in accordance to current local and national regulations. Contacting a waste disposal service is recommended.

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Section 14 - Transport Information

This product is regulated as a hazardous material under the Department of Transportation.

Shipping Name: Resin Solution (Xylenes)

Hazard Class: 3

ID Number: UN1866

Packing Group: III

Section 15 - Regulatory Information

Toxic Substances Control Act (TSCA): This product is in compliance with the TSCA regulation of the United States.

Superfund Amendments and Reauthorization Act (SARA): This product has the following hazards as defined in Section 311/312 of 40 CFR part 372:

Hazards

Acute (Immediate) Health Hazard

Chronic (Delayed) Health Hazard

Fire Hazard

This product contains the following chemicals subject to the reporting requirements of Section 313 or Title III of SARA and 40 CFR Part 372:

<u>Ingredients</u>	<u>CAS Number</u>	<u>Maximum %</u>
Xylene	1330-20-7	17
Ethyl Benzene	100-41-4	3

California Proposition 65: This product contains the following substances known to the state of California to cause cancer, birth defects, or other reproductive harm per the Safe Drinking Water and Toxic Enforcement Act of 1986.

Ingredients

None

Section 16 - Other Information

Prepared By: AAC

Revision Date: 06/07

General Review

Supersedes: 08/04

All information is presented in good faith using available information. The HallStar Company makes no representation of the accuracy or completeness of the information. The user should consider this information as a supplement to other information that may be available. User should also determine suitability of information in their situation to determine proper use and disposal, protection of persons and the environment.

⁽¹⁾ Affiliated companies include RTD*HallStar Company, HallStar Solutions Corp., Ester Solutions Company, Memphis Solutions Company and Marine Magnesium & Minerals Company.