



TRUFLEX/PANG RUBBER PRODUCTS COMPANY, INC.  
1667 NORTH MAIN STREET  
LOS ANGELES, CA 90012  
(323) 224-6300 (phone)  
(323) 225-0672 (fax)

EFFECTIVE: 12/27/00  
SUPERCEDES: 3/20/96  
MSDS NO.: HDSOLNNF  
REVISION NO.: 1

**HEAVY DUTY SOLUTION - NON FLAMMABLE**

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**MATERIAL SAFETY DATA SHEET**

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**PRODUCT NAME:** HEAVY DUTY SOLUTION - NON FLAMMABLE  
**CATALOG NUMBER (S):** 708, 710, 732, 740, 750, 200HD  
**PRODUCT USE:** RUBBER CEMENT

**MANUFACTURED FOR TRUFLEX/PANG BY:**

Tech International  
200 East Coshocton Street  
Johnstown, OH 43031  
(740) 967-9015 phone  
(740) 967-1039 fax

**FOR CUSTOMER SERVICE INFORMATION, CONTACT:**

(323) 224-6300

**EMERGENCY TELEPHONE NUMBER (24 hrs.):**

CHEMTREC (800) 424-9300

**MSDS PREPARED BY:**

John Gramza, Jr.  
Regulatory Affairs Director  
Tech International  
200 East Coshocton Street  
Johnstown, OH 43031  
(740) 967-9015

**SECTION 2. CHEMICAL COMPOSITION/HAZARDOUS INGREDIENTS**

INGREDIENT (COMMON NAME)	CAS NO.	% (by wt.)	OSHA PEL	ACGIH TLV	NOTES
Trichloroethylene	79-01-6	82 - 84	50 ppm	50 ppm	



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**SECTION 3. PHYSICAL CHARACTERISTICS**

INITIAL BOILING POINT	190° F (87.8° C) @ 760.00 mm Hg
VAPOR PRESSURE	60.00 mm Hg @ 100.00 ° F
VAPOR DENSITY (air = 1)	4.53
SPECIFIC GRAVITY (water = 1)	1.46 @ 60.00 ° F
% VOLATILES	83.3%
VOC CONTENT	10.15 lbs./gal (1214.5 g/L)
EVAPORATION RATE	3.6 (n-Butyl Acetate = 1)
pH	N/A
APPEARANCE	Black liquid, high viscosity
ODOR	Strong solvent

**SECTION 4. FIRE AND EXPLOSION DATA**

FLASH POINT AND METHOD	None
LEL	8.0% @ 25°C
UEL	10.5 % @ 25°C
EXTINGUISHING MEDIA	Foam, carbon dioxide or dry chemical
SPECIAL FIREFIGHTING PROCEDURES	Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.
UNUSUAL FIRE AND EXPLOSION HAZARDS	Never use a welding or cutting torch on or near container (even when empty) because product (even just residue), can ignite explosively. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking or other ignition sources distant from the material handling point.



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**SECTION 5. REACTIVITY AND STABILITY DATA**

<b>STABILITY</b>	Stable
<b>HAZARDOUS POLYMERIZATION</b>	Cannot occur
<b>INCOMPATIBILITY (materials or conditions to avoid)</b>	Strong oxidizers, strong acids and alkalis, aluminum and zinc powders
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Carbon dioxide, carbon monoxide, various hydrocarbons, hydrogen chloride

**SECTION 6. HEALTH HAZARD INFORMATION**

<b>EYE CONTACT</b>	Exposure to product may cause eye irritation. Symptoms include stinging, tearing, redness and swelling.
<b>INHALATION</b>	Exposure to vapor or mist is possible. Excessive exposure may increase sensitivity to epinephrine and increase myocardial irritability (irregular heartbeats). Exposure levels in the 1000 - 2000 ppm range may rapidly cause dizziness and drunkenness. Progressively higher levels or longer exposures may cause unconsciousness and death.
<b>INGESTION</b>	Single dose oral toxicity is low. Symptoms may include: gastrointestinal irritation (nausea, vomiting, diarrhea), CNS depression.
<b>SKIN CONTACT</b>	Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry skin. Symptoms include: redness, burning sensation, drying, cracking and numbness in fingers, if immersed in liquid
<b>TARGET ORGANS EFFECTED</b>	CNS, liver, kidneys, skin, eyes

**CARCINOGENICITY - LISTED BY:**

<b>ACGIH</b>	No	<b>IARC</b>	2A	<b>NTP</b>	2	<b>OSHA</b>	No
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**SECTION 7 EMERGENCY AND FIRST AID INFORMATION**

<b>EYE CONTACT</b>	If symptoms develop, move individual away from exposure and into fresh air. Flush eyes with water for at least 15 minutes while holding eyelids apart. If symptoms persist, seek medical attention.
<b>INHALATION</b>	If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen. Keep person warm and quiet.
<b>INGESTION</b>	If swallowed, DO NOT induce vomiting. This material is an aspiration hazard. If person is drowsy or unconscious, place on left side with head down. Seek immediate medical attention.
<b>SKIN CONTACT</b>	Remove contaminated clothing. Wash exposed area with soap and water. Launder contaminated clothing before reuse. If symptoms persist, seek medical attention.

**SECTION 8. PROTECTIVE EQUIPMENT AND OTHER CONTROL MEASURES**

<b>EYE PROTECTION</b>	Chemical splash goggles in compliance with OSHA regulations are advised, however OSHA regulations also permit other types of safety glasses. Consult your safety equipment representative.
<b>RESPIRATORY PROTECTION</b>	If workplace exposure limit (s) of product or any component is exceeded (See Section 2), a NIOSH/MSHA approved respirator is advised in the absence of proper environmental control. OSHA regulations permit other NIOSH/MSHA approved respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.
<b>SKIN PROTECTION</b>	Wear resistant gloves, such as: nitrile
<b>ENGINEERING CONTROLS</b>	Provide sufficient mechanical (general or local exhaust) ventilation to maintain exposure below TLV(s). Explosion-proof ventilation system is acceptable.
<b>OTHER PROTECTIVE EQUIPMENT</b>	To prevent repeated or prolonged skin contact, wear impervious clothing and boots.
<b>OTHER HYGIENIC AND WORK PRACTICES</b>	Use good personal hygiene work practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash before reuse.



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**SECTION 9. SPILL OR RELEASE PROCEDURES**

<b>SMALL SPILL</b>	Eliminate all sources of ignition (flames, pilot lights, electrical sparks) and absorb material on vermiculite, floor absorbent or other absorbent material.
<b>LARGE SPILL</b>	Eliminate all sources of ignition (flames, pilot lights, electrical sparks, etc.). Persons not wearing appropriate protective equipment should be excluded from area of spill until cleanup has been completed. Stop spill at source. Prevent material from entering drains, sewers, streams, or other bodies of water. Prevent from spreading by using dikes, booms, etc. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled material into clean, approved containers for recovery or disposal. Absorb unrecoverable material onto vermiculite, floor absorbent or other absorbent material, and transfer into clean approved containers for disposal.

**SECTION 10. DISPOSAL CONSIDERATIONS**

Disposal of material should be done in accordance with all Federal (40 CFR Part 261), State and Local environmental control regulations.

**SECTION 11. TRANSPORTATION INFORMATION**

<b>DOT PROPER SHIPPING NAME (49 CFR 172.101)</b>	Trichloroethylene
<b>HAZARD CLASS (DOT, IATA)</b>	6.1
<b>HAZARD CLASS (IMO)</b>	6.1
<b>ID NUMBER</b>	UN 1710
<b>PACKING GROUP</b>	III
<b>ADDITIONAL DESCRIPTION</b>	Not required
<b>LABELS REQUIRED</b>	Toxic (49 CFR 172.430)
<b>1996 NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER</b>	160
<b>EmS NUMBER</b>	6.1-02
<b>MFAG TABLE NO.</b>	340
<b>REPORTABLE QUANTITY (DOT)</b>	100 lbs. (454 kg.)



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**SECTION 12. OTHER REGULATORY INFORMATION**

This product contains the following toxic substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (Emergency Planning and Community Right-To-Know Act) of 1986 and of 40 CFR Part 372:

CHEMICAL	CAS NO.	% COMPOSITION (by wt.)
Trichloroethylene	79-01-6	82 - 84

TOXIC SUBSTANCES CONTROL ACT: The chemical substances in this product are listed on the TSCA Section 8 Chemical Substance Inventory List (40 CFR Part 710).

CALIFORNIA PROPOSITION 65: This product contains Trichloroethylene, which is known to the State of California to cause cancer.

**SECTION 13. NFPA RATINGS**

HEALTH	2	FLAMMABILITY	1	REACTIVITY	0
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**SECTION 14. ADDITIONAL INFORMATION**

Containers of this product may be hazardous when emptied. Since emptied containers retain product residues (vapors, liquid, and/or solids), all hazard precautions given in this data sheet must be observed.

The information contained herein is information received from our raw material suppliers and other sources believed to be reliable. This data is not warranted whether originating with Truflex/Pang, or not. Recipients are advised to confirm in advance of the need that the information is current, applicable and suitable to their circumstances. It is the responsibility of the user to comply with all applicable Federal, State and Local laws and regulations.

This MSDS complies with the OSHA Hazard Communication Standard (29 CFR 1910.1200).