

PLASTOPANG
MATERIAL SAFETY DATA SHEET**SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** PLASTOPANG
CATALOG NUMBER(S): 1090F SERIES
PRODUCT USE: RUBBER CEMENT**FOR CUSTOMER SERVICE INFORMATION, CONTACT:**TRUFLEX/PANG RUBBER PRODUCTS COMPANY, P.O. Box 486, Johnstown, OH, 43031-0486, USA
740-967-9015 or 800-433-8324 (fax - 740-967-3583)**EMERGENCY TELEPHONE NUMBER (24 hrs.):** CHEMTREC North America (800) 424-9300 or (703) 527-3887**EMERGENCY TELEPHONE NUMBER (24 hrs.):** CHEMTREC International (703) 527-3887**SECTION 2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS**

INGREDIENT (COMMON NAME)	CAS NO.	% (by vol.)	OSHA PEL	ACGIH TLV	NIOSH REL	AIHA WEEL
Acetone	67-64-1	<50	1000 ppm 2400 mg/m ³	500 ppm STEL 750 ppm	250 ppm	*
2-Butanone (methyl ethyl ketone)	78-93-3	<40	200 ppm (590 mg/m ³)	200 ppm STEL 300 ppm	200 ppm (590 mg/m ³) STEL 300 ppm	*

EXPOSURE LIMITS ARE TIME WEIGHTED AVERAGES (TWA), SHORT-TERM EXPOSURE LIMITS (STEL) AND CEILINGS (C) ARE INCLUDED IF ESTABLISHED.

Notes

* Not Established

SECTION 3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

Appearance and Odor: Viscous white liquid with strong solvent odor.

Health Hazards: May cause skin and eye irritation. Use in a well-ventilated area. Wash contaminated area with water.

Physical Hazards: FLAMMABLE LIQUID. Do not use near open flame. Avoid strong oxidizers, acids, amines, ammonia, and caustics

R-PHRASES: R11 Highly Flammable; R36/37 Irritating to eyes and respiratory system;**S-PHRASES:** S 9 Keep container in a well-ventilated place; S16 Keep away from sources of ignition-no smoking; S23 Do not breathe vapour/spray; S25 Avoid contact with eyes; S33 Take precautionary measures against static discharge.**HAZARD SYMBOL:** F Flammable; Xi Irritant**POTENTIAL HEALTH EFFECTS:**

EYE CONTACT	Exposure to product may cause eye irritation. Symptoms include stinging, tearing, redness and swelling.
INHALATION	Exposure to vapor or mist is possible. The short-term inhalation toxicity is low. Breathing small amounts of vapors during normal handling is not likely to cause harmful effects; breathing large amounts may be harmful. Symptoms typically seen at air concentrations above the recommended exposure limits may include: irritation to nose, throat and respiratory system, metallic taste, muscle weakness. Initial central nervous system (CNS) excitation (euphoria, exhilaration, light-headedness) followed by CNS depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other CNS effects (confusion, impaired coordination, coma and possibly death).

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INGESTION	Single dose oral toxicity is low. Symptoms may include: gastrointestinal irritation (nausea, vomiting, diarrhea), CNS depression.
SKIN CONTACT	Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry skin. Symptoms include: redness, burning, drying, cracking and skin burns.
TARGET ORGANS EFFECTED	CNS, liver, kidneys, skin, respiratory system, eyes

CARCINOGENICITY - LISTED BY:

ACGIH	*	IARC	No	NTP	No	OSHA	No
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* Carcinogenic data for Acetone (CAS# 67-64-1); Acetone is rated A4 through ACGIH

SECTION 4. FIRST AID MEASURES

EYE CONTACT	If symptoms develop, move individual away from exposure and into fresh air. Flush eyes with water for at least 20 minutes while holding eyelids apart. If symptoms persist, seek medical attention.
INHALATION	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.
INGESTION	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.
SKIN CONTACT	Remove contaminated clothing. Wash exposed area with soap and water. Launder contaminated clothing before reuse. If symptoms persist, seek medical attention.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT	16 ° F (-9 ° C)
LEL	1.8%
UEL	13.0 %
EXTINGUISHING MEDIA	Foam, carbon dioxide or dry chemical
SPECIAL FIREFIGHTING PROCEDURES	Wear self-contained breathing apparatus with a full-face piece 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. All 5-gallon or larger metal containers should be grounded and bonded when material is being transferred. 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL	Eliminate all sources of ignition (flames, pilot lights, electrical sparks) and absorb material on vermiculite, floor absorbent or other absorbent material.
LARGE SPILL	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 7 HANDLING AND STORAGE

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STORAGE TEMPERATURE (MIN/MAX)	Ambient/122 °F (50 °C)
SHELF LIFE	2 years (if kept between 5 and 30 degrees C)
SPECIAL SENSITIVITY	Do not expose container to high heat.
HANDLING/STORAGE PRECAUTIONS	<p>Keep away from heat, sparks or open flame. Avoid contact with skin and eyes. Do not breathe aerosols or vapors. Employee education and training in the safe use and handling of this compound are required.</p> <p>Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering, pouring or pumping at high flow rates. If this charge reaches a sufficiently high level, sparks can form which may ignite the vapors of the flammable liquids.</p> <p>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.</p>

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION	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.
RESPIRATORY PROTECTION	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.
SKIN PROTECTION	Wear chemical resistant gloves.
ENGINEERING CONTROLS	Provide sufficient mechanical (general or local exhaust) ventilation to maintain exposure below OEL(s). Explosion-proof ventilation system is acceptable.
OTHER PROTECTIVE EQUIPMENT	To prevent repeated or prolonged skin contact, wear impervious clothing and boots.
OTHER HYGIENIC AND WORK PRACTICES	Use good personal hygiene work practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INITIAL BOILING POINT	132.8 °F (56 °C) @ 760.00 mm Hg
VAPOR PRESSURE	124.00 mm Hg @ 100.00 ° F
VAPOR DENSITY (air = 1)	Heavier than air
SPECIFIC GRAVITY (water = 1)	0.86 @ 60.00 ° F
% VOLATILES	40%
VOC CONTENT	2.64 lbs/gal (316.7 g/L)
EVAPORATION RATE	No Data
Ph	Not Established
APPEARANCE	White liquid, high viscosity
ODOR	Strong solvent, ketonic

SECTION 10. STABILITY AND REACTIVITY

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STABILITY	Stable
HAZARDOUS POLYMERIZATION	Cannot occur
INCOMPATIBILITY (materials or conditions to avoid)	Strong oxidizers, strong acids
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon dioxide, carbon monoxide, various hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION

<p>ACETONE CAS# 67-64-1</p> <p>Toxicity:</p> <p>Carcinogenic Effects:</p> <p>Epidemiology:</p> <p>Teratogenicity:</p> <p>Reproductive Effects:</p> <p>Neurotoxicity:</p> <p>Mutagenic Effects:</p> <p>Sex chromosome loss/ non-disjunction:</p>	<p>Inhalation, rat: LC50 =50100 mg/m³/8H; Oral, mouse: LD50 = 3 gm/kg; Oral, rabbit: LD50 = 5340 mg/kg; Oral, rat: LD50 = 5800 mg/kg; Skin, rabbit: LD50 = 20 gm/kg.</p> <p>Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.</p> <p>No information available.</p> <p>No information available.</p> <p>Fertility: post-implantation mortality. Ihl, mam: TCLo=31500 ug/m³/24H (1-13D preg)</p> <p>No information available.</p> <p>Cytogenetic analysis: hamster fibroblast, 40 g/L S.cerevisiae, 47600 ppm</p>
<p>2 BUTANONE CAS #78-93-3</p> <p>Toxicity:</p> <p>Chronic Effects on Humans:</p> <p>Acute Effects on Humans:</p> <p>Irritancy:</p> <p>Sensitization:</p> <p>Carcinogenic Effects:</p> <p>Reproductive Toxicity:</p> <p>Mutagenic Effects:</p>	<p>Acute oral toxicity (LD50): 2737 mg/kg [Rat]. Acute dermal toxicity (LD50): 6480 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 32 mg/m³ 4 hour(s) [Mouse].</p> <p>Not available.</p> <p>Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Hazardous in case of skin contact (permeator, irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Hazardous in case of inhalation (lung irritant). Hazardous in case of ingestion Draize Test (Rabbit): Skin: 402mg/24h. Reaction: Mild.</p> <p>Not available.</p> <p>This material is not known to cause cancer in animals or humans.</p> <p>Tests on laboratory animals for reproductive effects are cited in the Registry of Toxic Effects on Chemical Substances (RTECS).</p> <p>Tests on laboratory animals for mutagenic effects are cited in Registry of Toxic Effects of Chemical Substances (RTECS).</p>

SECTION 12. ECOLOGICAL INFORMATION

<p>No ecological data is available.</p> <p>Do not allow to escape into waters, wastewater or soil.</p>
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SECTION 13. DISPOSAL CONSIDERATIONS

<p>Disposal of material should be done in accordance with all national, regional, and local regulations and/or the relevant EU directives. In its unused state, the product exhibits the US EPA hazardous waste characteristic of ignitability (RCRA waste code D001). For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.</p>
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SECTION 14. TRANSPORTATION INFORMATION (DOT transport information may vary with the container and mode of shipment - See notes)

DOT PROPER SHIPPING NAME (49 CFR 172.101) *	Adhesives
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DOT PROPER SHIPPING NAME (49 CFR 172.101) *	Adhesives
HAZARD CLASS (DOT, IATA, IMO)	3
ID NUMBER	UN 1133
PACKING GROUP	II
ADDITIONAL DESCRIPTION	Not required
LABELS REQUIRED	Flammable Liquid (49 CFR 172.419)
2000 NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER	128
EmS NUMBER	3-05
REPORTABLE QUANTITY (DOT)	100 lbs. (45.4 kg.) as a D001 hazardous waste

* As packaged for distribution (<1L containers) , this product may ship as a Consumer Commodity, (ORM-D Domestic US).
IMDG - (<1L containers) Dangerous Goods in Limited Quantities of Class 3;
IATA - (<1L containers) Consumer Commodity, 9, ID 8000.

SECTION 15. 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 vol.)
Acetone	67-64-1	<50
2-Butanone	78-93-3	<40

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).

STATE REGULATIONS

The following chemicals are listed by individual states; other specific health and safety data in other sections of this MSDS may also be applicable for state requirements. For more details on regulatory requirements for individual states, contact the appropriate state agency.

Illinois, Pennsylvania, New Jersey, Massachusetts, and Florida have one or more of the following chemical(s) on their state Right-To-Know chemical list:

Acetone (67-64-1)	<50%
2-Butanone (78-93-3)	<40%

INTERNATIONAL REGULATIONS

INVENTORY STATUS:

ACETONE: Listed on the following international inventories: AICS (AUSTRALIA), DSL (CANADA), ECL Serial No. KE-29367(SOUTH KOREA), EINECS No. 200-662-2(EUROPE), ENCS No. 2-542X, (JAPAN), PICCS (PHILIPPINES), SWISS No. G-1031, ISREAL No. 108.1

2-BUTANONE: AICS (AUSTRALIA), DSL (CANADA), ECL Serial No. KE-24094 (SOUTH KOREA), EINECS No. 201-159-0 (EUROPE), ENCS No. 2-542X, (JAPAN), PICCS (PHILIPPINES), SWISS No. G-2429, ISREAL No. 108.2

CANADA:

WHMIS HAZARD CLASSIFICATION: Class B Division 2

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This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS SYMBOLS: B Flammable; D 2 B Poisonous - Other toxic effects.



NFPA RATINGS

HEALTH	2	FLAMMABILITY	3	REACTIVITY	0
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SECTION 16. OTHER INFORMATION

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

MSDS NO.: 1090

REVISION NO.: 6

Revised effective 9/17/02 to meet requirements of EEC Directive 2001/58/EC (91/155/EEC), ANSI Z400.1-1993 and the Canada CPR (WHMIS)

Prepared by: Truflex/Pang -Tech International Environmental Health and Safety Department

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 National, Federal, State and Local laws and regulations.

For 24-hour access to Truflex/Pang MSDS documents:

- In North America call our Fax-on-Demand system at 888-612-8324, ext. 878 (TRU).
- Outside North America call the international dialing code for the United States followed by 740 363-7715, ext. 878. Then follow the instructions to leave a message with the requested document numbers and the country, city code and fax number.
- Also see www.truflexpang.com for latest MSDSs and instructions for fax-on-demand service.