



SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: **Boxer 100**

Product type: vinyl adhesive

Restriction of use: None identified

Company Address: Precision Adhesives and Chemicals
131 Brown Street
Yatesville, PA 18640

Telephone numbers: 570-654-6735

Transport Emergency phone: Chemtrec 800-424-9300

Medical Emergency phone: Poison Control Center 1.877.671.4608

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture:

Flammable liquids (Category 3)

Acute toxicity, Inhalation (Category 4)

Acute toxicity, oral (Category 4)

Acute toxicity, dermal (Category 4)

Skin irritation (Category 2)

Eye irritation (Category 1)

Germ cell mutagenicity (Category 2)

Toxic to reproduction (category 1b)

Signal Word: Danger

Hazard Statements:

H226: flammable liquid and vapor.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H318: Causes serious eye damage

H332: Harmful if inhaled.

H341: Suspected of causing genetic defects

H360: May damage fertility of the unborn child

Pictograms:**Precautionary Statements:**

P210: Keep away from heat / sparks / open flames / hot surfaces. No smoking.

P270: Do not eat, drink or smoke when using this product.

P261: Avoid breathing mist, vapors or spray

P281: Use personal protective equipment as required.

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313: If exposed or concerned: Get medical attention/advice.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component	C.A.S. #	%
Cyclohexanone	108-94-1	60-80
DOP	117-81-7	1-5
Vinyl Chloride	9005-09-8	10-20
Vinyl Chloride	9003-22-9	1-15

SECTION 4: FIRST-AID MEASURES**SIGNS AND SYMPTOMS OF EXPOSURE:**

Eyes: Irritation

Skin: Irritation

Inhalation: dizziness, drowsiness, nausea

FIRST AID & EMERGENCY PROCEDURES:

Eyes: Immediately flush with plenty of water for at least 15 minutes, lifting eyelids occasionally during flushing to facilitate irrigation. Seek medical attention.

Skin: Immediately wash skin with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.

Inhalation: Remove to fresh air. If breathing is difficult, seek medical attention.

Ingestion: Take immediately to hospital or physician.

SECTION 5: FIRE FIGHTING MEASURES

Flash point: 43.9°C (111°F)

Autoignition temperature: 420°C (788°F)

Flammable limits in air % by volume: lel: 1.1 @ 100°C; uel: 9.4

Extinguishing Media: Dry Chemical, Carbon Dioxide, Foam, Water Spray.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective clothing. Water may be used to cool fire-exposed containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Soak up with absorbent material, remove to a chemical disposal area. Enclose with diking material to prevent seepage into any natural bodies of water. Absorb residue and dispose of all waste according to all local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Keep container closed when not in use. Do not breath gas/fumes/vapor/spray. Wash thoroughly after handling. Do not store above 100° F.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Component	C.A.S. #	ACGIH TWA/ppm	ACGIH STEL/ppm	OSHA TWA/ppm	Sara Title III
Cyclohexanone	108-94-1	50		50	
Diocetyl phthalate	117-81-7	5mg/m3			
Vinyl Chloride	9005-09-8	1			
Vinyl Chloride	9003-22-9	1			

Respiratory Protection: The use of respiratory protection depends on vapor concentration above the time-weighted TLV. Use a respirator/gas mask with appropriate cartridges and canister (NIOSH approved) or supplied air equipment, depending on airborne concentration.

Ventilation: General mechanical ventilation may be sufficient to keep product vapor concentrations within specified time-weighted TLV ranges. If general ventilation proves inadequate to maintain safe vapor concentrations, supplemental local exhaust may be required if vapor concentrations

cannot be reduced to below the TLV by ventilation.

Protective Gloves: The use of gloves which are impermeable to the specific material handled is advised to prevent skin irritation and absorption.

Other Protective Clothing or Equipment: Safety glasses, chemical goggles and/or face shield are recommended to safeguard against potential eye contact, irritation or injury.

Special clothing is advised as good chemical handling practice. The availability of eye wash and safety showers in work areas is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F): 314	Vapor Density (Air=1): 3.4
Specific Gravity (H2O=1): 0.9944	Evaporation Rate (Butyl Acetate=1): 0.29
Vapor Pressure (mmHg): 5 @ 26°C (79°F)	Water Solubility: Nil
% Volatile by Volume: N/E	Appearance and Odor: Water white-clear to cloudy, characteristic solvent odor

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable **HAZARDOUS POLYMERIZATION:** May not occur

CONDITIONS TO AVOID: Exposure to heat, sparks, open flames, static electricity.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents, strong acids and strong alkalies.

HAZARDOUS DECOMPOSITION PRODUCTS OR BYPRODUCTS: Carbon monoxide, carbon dioxide, smoke, fumes, other unidentified toxic materials.

SECTION 11: TOXICOLOGICAL INFORMATION

NPT carcinogen:

Ingredient	Known	Anticipated	IARC category
Cyclohexanone (108-91-1)	No	No	3
Diocetyl phthalate (117-81-7)	No	suspect	2b

Cyclohexanone CAS# 108-91-1:

Acute Toxicity:

Oral rat LD50: 1800 mg/kg; Inhalation rat LC50: 8000ppm / 4 hr

Skin rabbit LD50: 1 mL/kg; Irritation: eye rabbit.

Standard Draize: 20 mg, severe; skin rabbit, Open Draize: 500 mg, mild

Investigated as a tumorigen, mutagen and reproductive effector.

Diocetyl phthalate CAS# 117-81-7:

Acute toxicity, LD50, Oral, Rat, 30.00 GM/KG.

Results:

Behavioral: Convulsions or effect on seizure threshold.

Gastrointestinal:Ulceration or bleeding from stomach.

Blood: Hemorrhage.

- Raw Material Data Handbook, Vol.1: Organic Solvents, 1974., National Assoc. of Printing Ink Research Institute, Francis McDonald Sinclair Memorial Labor, Lehigh Univ., Bethlehem, PA 18015, Vol/p/yr: 2,32, 1975

Acute toxicity, LD50, Skin, Species: Rabbit, 25.00 GM/KG.

Results:

Kidney, Ureter, Bladder:Changes in tubules (including acute renal failure, acute tubular necrosis).

Blood:Changes in serum composition (e.g.

Related to Chronic Data - death.

- Journal of Industrial Hygiene and Toxicology, Vol/p/yr: 27,130, 1945

SECTION 12: ECOLOGICAL INFORMATION

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of only in accordance with local, state, and federal rules and regulations.

SECTION 14: TRANSPORT INFORMATION

D.O.T. Shipping Name: UN1133, Adhesive, 3, PG III

HMIS Rating: Health: 2

Flammability: 3

Reactivity: 0

Contains:

Hazardous Component	C.A.S. #
Cyclohexanone	108-94-1
Diocetyl phthalate	117-81-7
Vinyl Chloride	9005-09-8
Vinyl Chloride	9003-22-9

D.O.T. Label: Flammable liquid

SECTION 15: REGULATORY INFORMATION

Federal and State Regulations:

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: DOP

Connecticut hazardous material survey.: DOP

Illinois toxic substances disclosure to employee act: DOP

Illinois chemical safety act: DOP

New York release reporting list: DOP

Rhode Island RTK hazardous substances: DOP

Pennsylvania RTK: DOP, Cyclohexanone

Minnesota: DOP

Massachusetts RTK: DOP, Cyclohexanone

New Jersey RTK: Cyclohexanone

TSCA 8(b) inventory: DOP, Cyclohexanone

TSCA 8(d) H and S data reporting: DOP, Cyclohexanone

SARA 313 toxic chemical notification and release reporting: DOP, Cyclohexanone

SARA 311/312 Hazards: Cyclohexanone

CERCLA: Hazardous substances: Cyclohexanone, 5000 lbs.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 0

Specific hazard: none

SECTION 16: OTHER INFORMATION

Updated: 1/30/18

SPECIAL COMMENT REGARDING ALL MATERIALS MANUFACTURED

All information, recommendations and suggestions appearing herein concerning our products are based upon test data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Adhesives and Chemicals as to the effects or such use, the results to be obtained, or the safety and toxicity of the product nor does Adhesives and Chemicals assume any liability arising out of use, by others, of the product referred to herein. The information herein is not to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.