SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PA-330
Product type: HVAC DUCT INSULATION 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 Contol Center 1.877.671.4608

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture:
Flammable liquids (Category 2)
Acute toxicity, Inhalation (Category 4)
Skin irritation (Category 2)
Eye irritation (Category 2A)
Reproductive toxicity (Category 2)
Specific target organ toxicity - single exposure (Category 2)
Aspiration hazard (Category 1)
Acute aquatic toxicity (Category 4)

Signal Word: Danger

Hazard Statements:
H225: Highly flammable liquid and vapor.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H336: May cause drowsiness or dizziness.
H361: Suspected of damaging fertility or the unborn child.
H371: May cause damage to organs.
H401: Toxic to aquatic life.

Pictograms:

Precautionary Statements:
P210: Keep away from heat / sparks / open flames /hot surfaces. No smoking.
P260: Do not breathe dust / fume / gas / mist / vapors / 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.
P331: Do NOT induce vomiting

Hazards not otherwise classified:
EUH 066 Repeated exposure may cause skin dryness or cracking.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	% by weight
Heptane	142-82-5	25-40
Hexane	110-54-3	25-40
Toluene	108-88-3	5 to 15
Elastomer		12 – 18
Resin		10 - 15

4. FIRST AID MEASURES

Eyes
If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin
Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing
Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth;

place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation
If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, see medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Note to physicians
Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (see section 3 – Swallowing) when deciding whether to induce vomiting. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: respiratory tract, skin, lung (for example, asthma-like conditions), kidney, central nervous system, auditory system. Individuals with preexisting heart disorders may be more susceptible to arrhythmias if exposed to high concentrations of this material.

5. FIRE FIGHTING MEASURES

Flash Point(Method Used): 20°F.T.C.C

Flammable Limits: LEL 1.0
UEL 7.0

Auto-ignition temperature
No data

Hazardous products of combustion
May form carbon dioxide, carbon monoxide, and various hydrocarbons.

Fire and explosion hazards
Material is highly volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motor, static discharger, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Extinguishing media
Regular foam, water fog, carbon dioxide, dry chemical.

Fire fighting instructions
Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipement. Refer to the personal protective equipment section of this MSDS.

NFPA rating
Not determined

6. ACCIDENTAL RELEASE MEASURES

Small spill
Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks, Absorb liquid on vermiculite, floor absorbent or other absorbent material.

Large spill
Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

7. HANDLING AND STORAGE

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed All five-gallon pails and larger metal containers, including tank cars and tank trucks, should be ground an/or bonded when material is transferred.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye protection
Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin Protection
Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory protections
If workplace exposure limits of product or any component are exceeded, a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSH regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.

Engineering controls
Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV.

Exposure guidelines

HEPTANE (142-82-5)
OSHA PEL 500 ppm – TWA
OSHA VPEL 400 ppm – TWA
OSHA VPEL 500 ppm – STEL
ACGIH TLV 400 ppm – TWA
ACGIH TLV 500 ppm – STEL

TOLUENE (108-88-3)
OSHA PEL 200 ppm – TWA
OSHA PEL 300 ppm – ceiling
OSHA VPEL 100 ppm – TWA
OSHA VPEL 150 ppm – STEL
ACGIH TLV 50 ppm – TWA (skin)
ACGIH TLV 150 ppm – STEL (skin)

HEXANE (110-54-3)
ACGIH – 50 ppm TWA; Skin – potential significant contribution to overall exposure by cutaneous route
NIOSH – 50 ppm TWA; 180 mg/m3 TWA; 1100 ppm IDLH
OSHA Final PELs – 500 ppm TWA; 1800 mg/m3 TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling point
(for component) 198º to 204ºF (92 to 96ºC) @ 760 mmHg

Vapor pressure
(for component) 115 mmHg @ 68º F

Specific vapor
No data

Specific gravity
0.9 @ 77ºF

Liquid Density
7.5 lbs/gal @ 77ºF
0.9 kg/l @ 25ºC

Percent Volatiles
40 to 44%

10. STABILITY AND REACTIVITY

Hazardous polymerization
Product will not undergo hazardous polymerization.

Hazardous decomposition
May form carbon dioxide, carbon monoxide and various hydrocarbons.

Chemical stability
Stable

Incompatibility
Avoid contact with strong alkalis, strong mineral acids, and strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Emergency Overview: POISON! DANGER! HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. VAPOR HARMFUL. FLAMMABLE LIQUID AND VAPOR. MAY AFFECT LIVER, KIDNEYS, BLOOD SYSTEM, OR CENTRAL NERVOUS SYSTEM. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.
Potential Health Effects:
Inhalation: Inhalation may cause irritation of the upper respiratory tract. Symptoms of overexposure may include fatigue, confusion, headache, dizziness and drowsiness. Peculiar skin sensations (e. g. pins and needles) or numbness may be produced. Very high concentrations may cause unconsciousness and death.
Ingestion: Swallowing may cause abdominal spasms and other symptoms that parallel over-exposure from inhalation. Aspiration of material into the lungs can cause chemical pneumonitis, which may be fatal.
Skin Contact: Causes irritation. May be absorbed through skin.
Eye Contact: Causes severe eye irritation with redness and pain.
Chronic Exposure: Reports of chronic poisoning describe anemia, decreased blood cell count and bone marrow hypoplasia. Liver and kidney damage may occur. Repeated or prolonged contact has a defatting action, causing drying, redness, dermatitis. Exposure to toluene may affect the developing fetus.
Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or impaired liver or kidney function may be more susceptible to the effects of this substance. Alcoholic beverage consumption can enhance the toxic effects of this substance.
Reproductive Toxicity: Has shown some evidence of reproductive effects in male and female laboratory animals.
Teratogenicity: Damage to fetus possible; Suspected human reproductive toxicant.
Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System:) No data available
Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System:) No data available
Numerical Measures of Toxicity: Cancer Lists: NTP Carcinogen

Ingredient	Known	Anticipated	IARC Category
Toluene (108-88-3)	No	No	None

Heptane (142-82-5)	No	No	None
Hexane (110-54-3)	No	No	None

Acute Toxicity: Oral rat LD50: 636 mg/kg; skin rabbit LD50: 14100 uL/kg; inhalation rat LC50: 49 gm/m3/4H; Irritation data: skin rabbit, 500 mg, Moderate; eye rabbit, 2 mg/24H, Severe. Investigated as a tumorigen, mutagen, reproductive effecter

12. ECOLOGICAL INFORMATION

no data

13. DISPOSAL CONSIDERATION

Destroy by liquid incineration in accordance with applicable regulations.

14. TRANSPORT INFORMATION

DOT information – 49 CFR 172.101
DOT description: ADHESIVES,3,UN1133,II

Container mode
55 gal drum

NOS component
None

RQ (reportable quantity) – 49 CFR 172.101
Toluene component: 4878 lbs.

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: Toluene
California prop. 65 (no significant risk level): Toluene: 7 mg/day (value) California prop. 65 (acceptable daily intake level): Toluene: 7 mg/day (value)
California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Toluene
Connecticut hazardous material survey.: Toluene, hexane
Illinois toxic substances disclosure to employee act: Toluene, hexane
Illinois chemical safety act: Toluene, hexane
New York release reporting list: Toluene, hexane
Rhode Island RTK hazardous substances: Toluene, hexane
Pennsylvania RTK: Toluene, Heptane, hexane
Florida: Toluene, hexane

Minnesota: Toluene, Heptane, hexane
Michigan critical material: Toluene
Massachusetts RTK: Toluene, Heptane, hexane
Massachusetts spill list: Toluene, hexane
New Jersey RTK: Toluene, Heptane, hexane
New Jersey spill list: Toluene, hexane
Louisiana spill reporting: Toluene
California Director's List of Hazardous Substances.: Toluene, Heptane, hexane
TSCA 8(b) inventory: Toluene, hexane
TSCA 8(d) H and S data reporting: Toluene, hexane
SARA 313 toxic chemical notification and release reporting: Toluene, hexane
CERCLA: Hazardous substances.: Toluene: 1000 lbs. (453.6 kg), Hexanes: 5000 lbs. (2268 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
Other Classifications:
WHMIS (Canada):
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).
CLASS D-2A: Material causing other toxic effects (VERY TOXIC).
DSCL (EEC): R11- Highly flammable. R20- Harmful by inhalation. S16- Keep away from sources of ignition - No smoking. S25- Avoid contact with eyes. S29- Do not empty into drains. S33- Take precautionary measures against static discharges.
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

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 Precision Adhesives as to the effects or such use, the results to be obtained, or the safety and toxicity of the product nor does

Precision Adhesives 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.