



Material Safety Data Sheet

1. Chemical Product and Company Identification

DESCRIPTION: PROBOND CONTACT CEMENT SPRAY ADH.
PRODUCT TYPE: SOLVENT BASED ADH. AEROSOL
APPLICATION: 69458

Manufacturer/Supplier Information

MSDS Prepared by:
Elmer's Products, Inc.
1 Easton Oval
Columbus, OH 43219
For additional health, safety or regulatory info:
Call 1-800-848-9400 to place an order or request

2. Composition, Information on Ingredients

The ingredients listed below have been associated with immediate and/or delayed(*) health hazards. Risk depends upon duration and level of exposure. **BEFORE EXPOSURE TO THESE INGREDIENTS, READ AND UNDERSTAND**

50-00-0 *Formaldehyde
67-64-1 *Acetone

74-98-6 Propane
108-88-3 *Toluene
110-54-3 *Hexane
110-82-7 *Cyclohexane
115-10-6 Dimethyl Ether

3. Hazards Identification

3.1 Emergency Overview

Appearance

Clear amber

Odor

Mint when wet

DANGER!

EXTREMELY FLAMMABLE LIQUID AND VAPOR

May be harmful if inhaled. May cause irritation
lungs.

Can cause central nervous system depression.

May be harmful if absorbed through skin.

Causes skin irritation.

Causes eye irritation.

HMIS Rating

HEALTH = 2 (moderate)

FLAMMABILITY = 4 (severe)

REACTIVITY = 0 (minimal)

CHRONIC = *

3.2 Potential Health Effects

Immediate Hazards

INGESTION: Not expected to be harmful under normal use.

If accidentally swallowed, burns or irritation of mucous membranes, esophagus or GI tract.

INHALATION: May be harmful if inhaled. Liquid causes irritation of nose, throat and lungs. Can cause central nervous system depression.

SKIN: May be harmful if absorbed through skin. Causes irritation.

EYES: Causes irritation.

Acetone 67-64-1

Can cause central nervous system depression. Signs and symptoms include headache, dizziness, nausea, vomiting, unconsciousness, and even asphyxiation.

Propane 74-98-6

This material is a simple asphyxiant. Signs and symptoms of overexposure include cyanosis, respiratory distress, dizziness, drowsiness, unconsciousness and asphyxiation. Central nervous system depression.

Toluene 108-88-3

Can cause central nervous system depression. Signs and symptoms include headache, dizziness, nausea, vomiting, unconsciousness, and asphyxiation. Reports have associated repeated occupational overexposure to solvents with permanent nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may lead to severe or fatal harm.

Hexane 110-54-3

Can cause central nervous system depression. Signs and symptoms include headache, dizziness, nausea, vomiting, unconsciousness, and even asphyxiation.

Cyclohexane 110-82-7

Can cause central nervous system depression. Signs and symptoms include headache, dizziness, nausea, vomiting, unconsciousness, and even asphyxiation.

Dimethyl Ether 115-10-6

Can cause central nervous system depression. Signs and symptoms include headache, dizziness, nausea, vomiting, unconsciousness, and even asphyxiation.

Delayed Hazards

Formaldehyde 50-00-0

POTENTIAL CANCER HAZARD.

Rats chronically exposed to 14 ppm formaldehyde (cancers. Based on animal data and limited epidermal NTP and IARC have listed formaldehyde as a probable carcinogen. OSHA regulates formaldehyde as a potential human carcinogen. May cause allergic skin reaction. Some reports indicate that formaldehyde may cause respiratory sensitization, and that pre-existing respiratory and skin disorders may be aggravated by exposure.

OSHA has identified 0.5 ppm as the "Action Level" for formaldehyde. Please refer to the OSHA Standard for guidance at specific operations.

Acetone 67-64-1

Ingestion may cause liver damage.

Ingestion may cause kidney damage.

-- See Footnote C.

Toluene 108-88-3

Suspect reproductive hazard. May cause reproductive effects based on animal data.

May cause spleen damage based on animal data.

Can cause liver damage.

Can cause kidney damage.

May cause cardiac sensitization based on animal data.

Prolonged and repeated exposures to high concentrations may cause hearing loss in laboratory animals.

-- See Footnote C.

Hexane 110-54-3

Suspect reproductive hazard. May cause male reproductive effects based on animal data.

Chronic exposures may cause peripheral neuropathy.

-- See Footnote C.

Cyclohexane 110-82-7

May cause lung damage based on animal data. Pre-existing respiratory disorders may be aggravated by exposure.

May cause liver damage based on animal data.

May cause kidney damage based on animal data.

-- See Footnote C.

Footnote C: As of the date of issuance of this material, formaldehyde has not been listed by NTP, classified by OSHA as a carcinogen.

4. First Aid Measures

INGESTION: If accidentally swallowed, dilute by quantities of water. Immediately call a physician or hospital emergency room for additional treatment directions.

INHALATION: If inhaled, remove to fresh air. If necessary, give artificial respiration, preferably by mouth-to-mouth. Call a physician.

SKIN: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing and shoes before reuse.

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be kept open as much as possible. Continue irrigation to insure water contact with all surfaces of eyes and lids. Call a physician.

5. Fire Fighting Measures

Autoignition Temperature	Not determined
Upper/Lower Flammable Limits	Not determined
Up/Lower Explosive Limits, % by Vol	18/1 %
Flash Point	-104.5°C (-156°F)

EXTREMELY FLAMMABLE LIQUID AND VAPOR.

Keep liquid and vapor away from heat, sparks, flames, and other ignition sources including, but not limited to, pilot lights, cigarettes, electric motors and static discharge. Vapor is heavier than air and may settle in low places or travel some distance to cause ignition and flashback.

In case of fire, use water fog, dry chemical, foam, or carbon dioxide. Use water to keep fire-exposed containers cool.

6. Accidental Release Measures

Eliminate all ignition sources. Soak up with absorbent material.

remove to a chemical disposal area. Prevent entry into water.

7. Handling and Storage

7.1 Handling

Handle in accordance with good industrial hygiene practices. These practices include avoiding unnecessary removal of the material from eyes, skin and clothing. Wash thoroughly after handling. Always use appropriate Protective Equipment (PPE).

INHALATION: Avoid breathing vapor. Use with adequate ventilation.

SKIN: Avoid contact with skin and clothing.

EYES: Avoid contact with eyes.

7.2 Storage

Store in a cool, well-ventilated area.

Store in cool, dry area away from sun, heat, oxidizing and alkaline materials.

Do not store at temperatures above 50 C.

Keep away from heat, sparks, flame and other ignition sources.

8. Exposure Controls/Personal Protection

8.1 Exposure Controls

ENGINEERING CONTROLS: The following exposure controls can be used to effectively minimize employee exposure: ventilation, enclosed system design, process isolation, control in combination with appropriate use of personal protective equipment and prudent work practices. These controls do not necessarily address all issues pertaining to your facility; therefore, recommend that you consult with experts to determine whether or not your programs are adequate. If airborne contaminants are generated when the material is handled, sufficient ventilation in volume and air flow must be provided to keep air contaminant concentrations below acceptable criteria.

8.2 Personal Protection

Where air contaminants can exceed acceptable criteria, use approved respiratory protection equipment. Respirators are selected based on the form and concentration of the contaminant in accordance with OSHA laws and regulations or other applicable standards or guidelines, including ANSI standards for respiratory protection. Use goggles if contact with the eyes is possible; impervious gloves as required to prevent skin contact.

8.3 Exposure Guidelines

Formaldehyde	50-00-0
ACGIH TLV:	0.3 ppm (0.37 mg/m ³) Ceiling, A2 - See 8.3.1
OSHA PEL:	0.75 ppm (0.9 mg/m ³) TWA; 2 ppm (2.5 mg/m ³) Ceiling
Acetone	67-64-1
ACGIH TLV:	500 ppm (1188 mg/m ³) TWA; 750 ppm (1780 mg/m ³) Ceiling
OSHA PEL:	1000 ppm (2400 mg/m ³) TWA
REMANDED PEL:	750 ppm (1800 mg/m ³) TWA; 1000 ppm (2400 mg/m ³) Ceiling
OSHA 1989 PEL remanded,	but in effect in some states
Propane	74-98-6
ACGIH TLV:	2500 ppm (4508 mg/m ³) TWA
OSHA PEL:	1000 ppm (1800 mg/m ³) TWA
Toluene	108-88-3
ACGIH TLV:	Skin - 50 ppm (188 mg/m ³) TWA

OSHA PEL: 200 ppm TWA; 300 ppm Ceiling; 500 ppm
REMANDED PEL: 100 ppm (375 mg/m³) TWA; 150 ppm
OSHA 1989 PEL remanded, but in effect in some sta
Hexane 110-54-3
ACGIH TLV: Skin - 50 ppm (176 mg/m³) TWA
OSHA PEL: 500 ppm (1800 mg/m³) TWA
REMANDED PEL: 50 ppm (180 mg/m³) TWA
OSHA 1989 PEL remanded, but in effect in some sta
Cyclohexane 110-82-7
ACGIH TLV: 300 ppm (1030 mg/m³) TWA
OSHA PEL: 300 ppm (1050 mg/m³) TWA
Dimethyl Ether 115-10-6
ACGIH TLV: NONE ESTABLISHED
OSHA PEL: NONE ESTABLISHED

9. Physical and Chemical Properties

Percent Volatiles	79
VOC Content	62.2 %
pH @ 25 C	Not applicabl
Specific Gravity	0.6928
Appearance	Clear amber
Autoignition Temperature	Not determin
Boiling Point	-42.2 to 110
Vapor Density (Air=1)	>1
Vapor Pressure, mm Hg @ 20 C	Not determin
Evaporation Rate (Butyl Acetate=1)	>1
Upper/Lower Flammable Limits	Not determin
Up/Lower Explosive Limits, % by Vol	18/1 %
Flash Point	-104.5°C (-1
Freezing Point	Not applicabl
Melting point	Not applicabl
Odor	Mint when wet
Odor Threshold, ppm	Not determin
Solubility in Water	Negligible
Coefficient of Water/Oil Distrib.	Not determin

10. Stability and Reactivity

Normally stable as defined in NFPA 704-12(4-3.1)

Conditions to Avoid:

Keep away from combustibles, ignition sources, or

Incompatibilities:

Strong oxidizers and reducing agents.

Decomposition products may include:

CO, CO₂, aldehydes and carboxylic acids.

Hazardous polymerization:

Will not occur.

Other Hazards:

None known to company.

11. Toxicological Information

See Section 3 Hazards Identification information
Formaldehyde 50-00-0
LC50: rat=203 mg/m³ (RTECS)

LD50: orl-rat=0.8 g/kg (Merck); skn-rbt=0.27 g/kg
Acetone 67-64-1
LC50: Not available
LD50: oral-rat=5800 mg/kg (RTECS); skin-rabbit=20
Propane 74-98-6
LC50: Not available
LD50: Not available
Toluene 108-88-3
LC50: Not available
LD50: orl-rat=5000 mg/kg; skn-rbt=14 g/kg (Sax)
Hexane 110-54-3
LC50: Not available
LD50: orl-rat=28700 ug/kg (Sax)
Cyclohexane 110-82-7
LC50: Not available
LD50: orl-rat=29.82 g/kg (Sax)
Dimethyl Ether 115-10-6
LC50: Not available
LD50: Not available

12. Ecological Information

Not determined.

13. Disposal Considerations

Recover free liquid. Absorb residue and dispose
local, state/provincial, and federal requirements.
Empty container: May contain explosive vapors.
or weld on or nearby.

14. Transport Information

14.1 U.S. Department of Transportation (DOT)

The data provided in this section is for information only. It may not be specific to your package size. You will need appropriate regulations to properly classify your transportation.

ORM-D Consumer Commodity.

14.2 Canadian Transportation of Dangerous Goods (TDG)

Not determined.

15. Regulatory Information (Selected Regulations)

15.1 U.S. Federal Regulations

OSHA Hazard Communication Standard 29CFR1910.1200

This material is a "health hazard" and/or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR 1910.1200 "Hazard Communication" Standard.

SARA Title III: Section 311/312

Fire hazard
Immediate health hazard
Delayed health hazard

SARA Title III Section 313 and 40 CFR Part 372

This product contains the following toxic chemicals reporting requirements of Section 313 of Title III, Emergency Planning and Community Right-to-Know Act of 1986, and the Notification Requirement of 40 CFR Part 372.

Toluene
n-Hexane
Cyclohexane

TSCA Section 8(b) Inventory

All reportable chemical substances are listed on the TSCA Section 8(b) Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

15.2 Canadian Regulations

Workplace Hazardous Materials Information System (WHMIS)

This product has been classified in accordance with the criteria of the Controlled Products Regulation (CPR). It contains all the information required by the CPR.

CLASS D, DIV 1B
CLASS D, DIV 2B
CLASS B, DIV 2

Canadian Environmental Protection Act (CEPA)

All reportable chemical substances are listed on Substances List (DSL) or otherwise comply with CEPA notification requirements.

National Pollutant Release Inventory (NPRI)

This product contains the following chemical(s) :
reporting requirements of the Canadian Environment
(CEPA) subsection 16(1), National Pollutant Release
Toluene
Hexane
Cyclohexane

16. Other Information

CL (Cautionary Labeling): Products bearing the CL Labeling) Seal of The Art & Creative Materials Inc. are certified to be properly labeled in a program evaluation by a medical expert. This program is : Toxicological Advisory Board. These products are to be labeled in accordance with the chronic hazard standard, ASTM D-4236 and Federal Law, P.L. 100-6

User's Responsibility

The OSHA Hazard Communication Standard 29CFR 1910 Hazardous Materials Information System (WHMIS) re contained on these sheets be made available to you train your workers regarding OSHA and WHMIS precautions workers to handle this product properly. Consult

to guard against hazards associated with use of ingredients.

Disclaimer

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, COMMERCE
MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE.
shall conform to contracted specifications, and shall not
infringe any valid United States or Canadian patent.
shall be greater in amount than the purchase price of the
product in respect of which damages are claimed.
be liable for incidental or consequential damages
based on contract, breach of warranty, negligence.

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