

<b>SAFETY DATA SHEET</b>
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<b>SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION</b>
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Trade Name (As Labeled)	<b>VA-2132 Clear</b>
Chemical Names:	Methyl Ethyl Ketone/ THF/Cyclohexanone
Product Number:	VA-2132 White
Uses:	Flammable Vinyl Seam Sealer
UN Number:	UN 1133
UN Dangerous /goods Class/Subsidiary Risk:	Hazard Class 3 Packing Group II
Manufacturer's Name:	<b>Proto PVC Corp.</b>
Address:	10500 47th Street Clearwater, FL 34622
Emergency Phone:	(800) 424-9300 ( <b>CHEMTREC</b> )
Company Phone:	(727) 573-4665 (Product Information)
Date of Preparation:	4/16/2024
Date of last revision:	

<b>SECTION 2 HAZARD IDENTIFICATION</b>
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**OSHA Hazards**

Flammable liquids, Target Organ Effect, Irritant, Carcinogen

**Target Organs**

Liver, Kidney, Brain, Bladder, Central Nervous System

**GHS Classification**

Flammable liquids (Category 2)  
 Acute toxicity, inhalation (Category 4)  
 Skin irritation (Category 2)  
 Eye irritation (Category 2A)  
 Carcinogenicity (Category 2)  
 Specific target organ toxicity - single exposure (Category 2)  
 Aspiration hazard (Category 1)  
 Acute aquatic toxicity (Category 2)

**Signal Word****DANGER****Hazard Statement's)**

H-225	Highly Flammable liquid and vapor.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H302 +H312	Harmful if swallowed, in contact with skin.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.

**Precautionary Statement's)**

P-210	Keep away from heat/sparks/open flames/hot surfaces- <b>NO Smoking</b>
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P243	Take precautionary measures against static discharge.
P260	Avoid breathing dust / fume / gas / mist / vapours / spray.
P240	Ground / Bond container and receiving equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves / eye protection / face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**HMIS Classification**

<b>Health Hazard:</b>	2
<b>Chronic Health Hazard:</b>	*
<b>Flammability:</b>	3
<b>Physical Hazard:</b>	0

**NFPA Rating**

<b>Health Hazard:</b>	2
<b>Fire:</b>	3
<b>Reactivity Hazard:</b>	0

**Potential Health Effects**

<b>Inhalation:</b>	May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.
<b>Skin:</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes:</b>	Causes eye irritation.
<b>Ingestion:</b>	May be harmful if swallowed. Aspiration hazard if swallowed - can enter lungs and cause damage.

<b>SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS</b>
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ITEM	CHEMICAL NAME	CAS NO.	EC-No.	WT % RANGE
1	MEK	78-93-3	201-159-0	40-45%
2	Cyclohexanone	108-94-1	203-631-1	< 4%
3	Tetrahydrofuran	109-99-9	203-726-8	27-32%

Any remaining ingredients (to comprise 100% of the product) should be considered a proprietary blend of non-hazardous substances, or materials below threshold reporting limits.

<b>SECTION 4 - FIRST AID MEASURES</b>
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Consult a physician. Show this safety data sheet to the doctor in attendance.

**EYE CONTACT:** Flush with large quantities of water for at least 15 minutes or until irritation subsides. Contact a Physician.

**SKIN CONTACT:** Wash with soap and water, Consult a physician.

INHALATION: Move to fresh air. If not breathing ,give artificial respiration. If breathing is difficult, give oxygen. Contact a Physician immediately.

INGESTION: Do not induce vomiting. If irritation or complications arise, contact a Physician or Regional Poison Control Center immediately.

#### SECTION 5 - FIRE FIGHTING MEASURES

**Conditions of Flammability:**

Flammable in the presents of a source of ignition when the temperature is above the flash point keep away from heat/sparks/open flam/hot surface. **NO Smoking!**

**Suitable extinguishing media:**

Dry chemical, Carbon dioxide(CO2), Water spray, Alcohol-resistant foam.

**Hazardous combustion products:**

Hazardous decomposition products form under fire conditions-Carbon oxides.

**Precautions for fire-fighting:**

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point.

Wear full fire fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

**Further Information:**

Use water spray to cool unopened containers.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Use personal protectective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personal to safe areas. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental Precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and clean up:**

Contain spillage, and the collect with an electrically protected vacuum cleaner or wet-brushing and place in container for disposal according to local regulations.

#### SECTION 7 - HANDLING AND STORAGE

**Precautions for safe handling:**

HANDLING INFORMATION: KEEP OUT OF THE REACH OF CHILDREN. Avoid skin and eye contact. Avoid breathing vapors. Use only in a well ventilated area.

**Storage information:** Store away from caustics and oxidizers. Keep away form heat, sparks, and flames. Keep containers tightly closed when not in use. Keep containers from excessive heat and freezing. Use and store containers in a well ventilated area.

<b>SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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SDS Components	CAS-No.	Value	Exposure Limits	Governing Body
Tetrahydrofuran	109-99-9	TWA	50 ppm	USA, ACGIH Threshold Limit Values (TLV)
Cyclohexanone	108-94-1	TWA	20 ppm	USA, ACGIH Threshold Limit Values (TLV)
Methyl Ethyl Ketone	78-93-3	TWA	200 ppm	USA, ACGIH Threshold Limit Values (TLV)
Tetrahydrofuran	109-99-9	STEL	100 ppm	USA, ACGIH Threshold Limit Values (TLV)
Cyclohexanone	108-94-1	STEL	50 ppm	USA, ACGIH Threshold Limit Values (TLV)
Methyl Ethyl Ketone	78-93-3	STEL	300 ppm	USA, ACGIH Threshold Limit Values (TLV)
Tetrahydrofuran	109-99-9	TWA	200 ppm	USA, OSHA - Table Z-1 Limits of air Contaminants
Tetrahydrofuran	109-99-9	STEL	250 ppm	USA, OSHA - Table Z-1 Limits of air Contaminants
Cyclohexanone	108-94-1	TWA	25 ppm	USA, OSHA - Table Z-1 Limits of air Contaminants
Methyl Ethyl Ketone	78-93-3	TWA	200 ppm	USA, OSHA - Table Z-1 Limits of air Contaminants
Methyl Ethyl Ketone	78-93-3	STEL	300 ppm	USA, OSHA - Table Z-1 Limits of air Contaminants
Tetrahydrofuran	109-99-9	TWA	200 ppm	USA,OEL (OSHA)-Table Z-1 Limits for air Contaminants
Methyl Ethyl Ketone	78-93-3	TWA	200 ppm	USA,OEL (OSHA)-Table Z-1 Limits for air Contaminants
Cyclohexanone	108-94-1	TWA	50 ppm	USA,OEL (OSHA)-Table Z-1 Limits for air Contaminants
Tetrahydrofuran	109-99-9	TWA	200 ppm	USA, NIOSH Recommended Exposure Limits
Cyclohexanone	108-94-1	TWA	25 ppm	USA, NIOSH Recommended Exposure Limits
Methyl Ethyl Ketone	78-93-3	TWA	200 ppm	USA, NIOSH Recommended Exposure Limits

**Engineering Controls:**

Provide sufficient mechanical ventilation (local or general exhaust) to maintain exposures below PEL and TLV. Vapors are heavier than air and will collect in low areas. Check all low areas (basements, sumps, ect.) for vapors before entering.

**Respiratory Protection:**

When risk assessment shows air-purifying respirators are appropriate use full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand Protection:**

Handel with gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye Protection:**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

**Skin and Body Protection:**

Impervious clothing, Flame retardant protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Liquid, Amber to Clear

**Odor:** Keytone

**PH:** Not Applicable

**Boiling Point:** 80 C 176 Deg. F

**Flash Point:** -2.99 Deg. C (26.62 Deg. F) Closed cup

**Evaporation Rate:** No data

**Ignition Temperature:** N data

**Upper Explosion Limits:** 10.1 %

**Lower Explosion Limits:** 1.8 %

**Vapor Pressure:** 95 hPa (71 mmHg) at 20 Deg. C (68 Deg F)

**Relative Vapor Density:** 0.805 g/cm<sup>3</sup> at 25 Deg. C (77 Deg. F)

**Water Solubility:** Miscible

**Partition Coefficients:** -0.29

**lbs Per Gallon:** 7.84

**SECTION 10 - STABILITY AND REACTIVITY****Chemical Stability:**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:**

Vapors may form explosive mixture with air.

**Conditions to Avoid:**

Heat, Flames and sparks, Extremes of temperature and direct sunlight.

**Materials to Avoid:**

Bases, Oxidizing agents, Reducing agents, .

**Hazardous Decomposition Products:**

Hazardous Decomposition Products formed under fire conditions,-Carbon Oxides

Other decomposition products- no data available

**SECTION 11 - TOXICOLOGICAL PROPERTIES****Acute Toxicity:****Oral LD50**

LD50 oral- rat-2,737 mg/kg

Remarks: Behavioral: Altered sleep time (including change in righting reflex) Behavioral: Tremor

**Inhalation LC50**

LC50 Inhalation-mouse-4 h- 32,000 mg/m<sup>3</sup>

LC50 Inhalation-mammal-4 h- 38,000 mg/m<sup>3</sup>

**Dermal LD50:**

LD50 Dermal - rabbit-6,480 mg/kg

**Other information on Acute Toxicity:**

No data available

**Skin Corrosion/Irritation:**

Skin - rabbit - Skin irritation - 24 h

**Serious Eye Damage/Eye Irritation:**

No data available.

**Respiratory or Skin Sensitization:**

No data available.

**Germ Cell Mutagenicity:**

No data available.

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP..

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by OSHA..

**Reproductive Toxicity:**

No data available.

**Teratogenicity:**

This product is not reported to produce teratogenic effects in humans.

**Specific Target Organs Toxicity- Single Exposure (GHS)**

May cause drowsiness or dizziness.

**Specific Target Organs Toxicity- Repeated Exposure (GHS)**

No data available.

**Aspiration Hazard:**

No data available.

**Potential Health Effects:**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.

**Ingestion:** May be harmful if swallowed.

**Skin:** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Signs and Symptoms of Exposure:**

Central nervous system depression, Gastrointestinal disturbance, narcosis.

**Synergistic Effects:**

No data available

**Additional Information:**

RTECS: EL6475000

<b>SECTION 12 - ECOLOGICAL INFORMATION</b>
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**Toxicity:**

Toxicity to fish	NOEC - Cyprinodon variegatus (Sheephead minnow) -400 mg/l - 96 h
	LC50 - Pimephales promelas (Flathead minnow) - 3,130-3,320 mg/l - 96 h
	LC50 - Daphnia magna (Water flea) - 520 mg/l - 48 h
	EC50 - Daphnia magna (water flees) - 7,060 mg/l - 24 h

**Persistence and Degradability:**

No data available

**Bioaccumulative Potential:**

No data available

**Mobility in Soil:**

No data available

**PBT and vPvB Assessment:**

No data available

**Other Adverse Effects:**

No data available

<b>SECTION 13 - DISPOSAL CONSIDERATIONS</b>
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**Product:**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

WASTE MANAGEMENT/DISPOSAL: Dispose of according to Federal, State, and Local Standards. Discarded material should be incinerated at a permitted facility. Liquids cannot be disposed of in a landfill. Do not reuse empty containers. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA WASTE CODE - If discarded ( 40 CFR 261 ) : D001-Ignitable.

<b>SECTION 14 - TRANSPORTATION INFORMATION</b>
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**DOT (US):**

DOT PROPER SHIPPING NAME: UN1133, Adhesive, containing a flammable liquid, Class 3, PG II

DOT HAZARD Class: 3

DOT UN/NA NUMBER: UN 1133                      Packing Group: II

Reportable Quantity (RQ): 5000 Lbs.

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG:**

UN number: 1133 Class: 3

Packing Group: II

Proper shipping name:                      Adhesive , containing a flammable liquids

Marine pollutant: No

**IATA:**

UN number 1133 Class: 3

Packing Group: II

Proper shipping name:                      Adhesive , containing a flammable liquids

**DANGER : Highly Flammable Liquid and Vapor**

<b>SECTION 15 - REGULATORY INFORMATION</b>
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**SARA 302 Components:**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III Section 302.

**SARA 313 Components:**

SARA SECTION 313: The materials does not contain any chemical components with known CAS numbers that exceeds the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazard :**

Fire Hazard, Acute Health Hazard, Chronic Health hazard.

**CERCLA REPORTABLE QUANTITY:**

Components	CAS #	Components RQ (lbs)	Calculated product RQ (lbs)
tetrahydrofuran	109-99-9	1000	*

\* Calculated RQ exceeds reasonably attainable upper limit.

**Massachusetts Right to Know Components:**

Methyl Ethyl Keytone

CAS #

78-93-3

Revision Date

Tetrahydrofuran

109-99-9

Cyclohexanone

108-94-1

**Pennsylvania Right to Know Components:**

Methyl Ethyl Keytone

CAS #

78-93-3

Revision Date

Tetrahydrofuran

109-99-9

Cyclohexanone

108-94-1



**New Jersey Right to Know Components:**

Methyl Ethyl Keytone

Tetrahydrofuran

Cyclohexanone

CAS #

78-93-3

109-99-9

108-94-1

Revision Date

**California Prop. 65 Components:**

This product does not contain any chemicals known to the state of California to cause cancer, birth Defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

Country(s) or region	Inventory name	On inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commerical Chemical Substances (EINECS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
	Inventory of Chemical Substances (ISHL)	
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Phillippines	Phillippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

**SECTION 16 - OTHER INFORMATION**

HMIS RATINGS - HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 0

REASON FOR REVISION: To Correct MSDS Number/Change OSHA Hazcom Information

HAP less water, less exempt solvent: 2.45 # Per Gal.

VOC less water, less exempt solvent: 5.70 # Per Gal.

**Product Shelf Life: 12 Months from the date of Mfg. in an unopened sealed container.**

This data is offered in good faith as typical value and not as a product specification.

No warranty either express or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.

&lt; End of SDS &gt;