SAFETY DATA SHEET

Issue Date 18-Apr-2024 **Revision Date** 9-Aug-2024 **Version** 1

1. IDENTIFICATION

Product identifier

Product Name VYNObond
Vinyl Cement

PSN (Proper Shipping Name) 2348-Z

Product Code UN1133

UN/ID no. UN1133

Adhesive Adhesive, Containing a Flammable Liquid

PG III

Recommended use of the chemical and restrictions on use

Recommended Use Adhesive.

Uses advised against No information available.

Details of the supplier of the safety data sheet

Supplier Name	Supplier Address	Supplier Phone Number
Keder Solutions	7265 South 1st Street Oak Creek, WI 53154	(888) 727-7050

Infotrac Account #115760

Emergency Telephone Number Domestic: 1-800-535-5053 International: +1 352-323-3500

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

Label elements

Emergency Overview

Danger

Hazard statements
Causes serious eye irritation
Highly flammable liquid and vapor

Appearance: Hazy liquid with a solvent odor. **Physical state:** Liquid **Odor:** Solvent

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Not applicable

Other Information
Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance
Synonyms 2348

Chemical Name	CAS No.	Weight-%	Trade Secret
ACETONE	67-64-1	69 - 75	*
METHYL ETHYL KETONE	78-93-3	3 - 11	*
AMORPHOUS SILICA	7631-86-9	< 1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice Move victim to a safe isolated area.

Eye contact Flush with large quantities of water for 15 minutes and seek medical attention without delay, preferably from an opthamologist.

Skin contact Remove contaminated clothing. Wash thoroughly with soap and water. Consult a doctor. Wash clothing before reuse.

Inhalation Move person to fresh air. If breathing stops, apply artificial respiration and seek medical attention immediately. If breathing is difficult, oxygen may be given by a qualified person.

Ingestion Do NOT induce vomiting. This can cause chemical pneumonitis and pulmonary edema. Consult a physician immediately.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

Symptoms Prolonged inhalation of high vapor concentration may result in a narcotic effect ranging from dizziness, nausea and headaches, to unconsciousness. Can cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, with chest pain, shortness of breath and coughing.

Indication of any immediate medical attention and special treatment needed

Note to physicians There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Foam, CO2, Dry Chemical.

Small Fire Dry chemical or CO2.

Large Fire Alcohol or all purpose foam.

Unsuitable extinguishing media Water should not be used except to keep the fire-exposed containers cool.

Specific hazards arising from the chemical
Extremely flammable. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back.

Hazardous combustion products: Carbon Monoxide, Carbon Dioxide, Oxides of Nitrogen, and possibly Acrolein.

Explosion data
Sensitivity to Mechanical Impact No data available.
Sensitivity to Static Discharge May be ignited by heat, sparks or flames.

Protective equipment and precautions for firefighters
Respiratory equipment should be worn to avoid inhalation of concentrated fumes. Water spray may be ineffective on the fire, but should be used to cool fire exposed containers and structures. Water spray should also be used to disperse vapors as reignition is possible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions Collect absorbent material into metal waste containers and dispose of in accordance with all local, state, and federal hazardous waste regulations pertaining to the listed hazardous chemical. See Section 13 for additional disposal information.

Methods and material for containment and cleaning up

Methods for containment Dike spill, absorb with inert material and collect for disposal.

Methods for cleaning up Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use non-sparking utensils when handling liquid materials. Use proper grounding procedures when transferring material. Keep containers closed when not using.

Conditions for safe storage, including any incompatibilities

Storage Conditions Use non-sparking utensils when handling liquid materials. Use proper grounding procedures when transferring material to eliminate static charges.

Packaging materials Use only 304L or 316L stainless steel or polyethylene, or plastic lined containers for storage. Do not store in contact with Aluminum, Zinc or Copper.

Incompatible materials Alkaline materials, strong acids, and oxidizing materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product as supplied contains hazardous materials with occupational exposure limits established by the regional specific regulation authorities.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ACETONE 67-64-1	STEL: 500 ppm TWA: 250 ppm	TWA: 1000 ppm TWA: 2400 mg/m^3 (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m^3 (vacated) STEL: 2400 mg/m^3 The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors (vacated) STEL: 1000 ppm	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m^3
METHYL ETHYL KETONE 78-93-3	STEL: 150 ppm TWA: 75 ppm	TWA: 200 ppm TWA: 590 mg/m^3 (vacated) TWA: 200 ppm (vacated) TWA: 590 mg/m^3 (vacated) STEL: 300 ppm (vacated) STEL: 885 mg/m^3	IDLH: 3000 ppm TWA: 200 ppm TWA: 590 mg/m^3 STEL: 300 ppm STEL: 885 mg/m^3
AMORPHOUS SILICA 7631-86-9	-	(vacated) TWA: 6 mg/m^3 <1% Crystalline silica TWA: 20 mppcf : (80)/(% SiO2) mg/m^3 TWA	IDLH: 3000 mg/m^3 TWA: 6 mg/m^3

Appropriate engineering controls

Engineering Controls Showers. Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Use chemical safety glasses, goggles, or face shields for protection. Eye wash stations should be in the immediate work area.
Skin and body protection	Impermeable chemical handling gloves should be worn. Use impermeable clothing whenever possible to prevent skin contact.
Respiratory protection	If spraying this material, use NIOSH approved cartridge respirator or gas mask suitable to keep airborne mists and vapor concentrations below the time-weighted threshold limit values. General mechanical ventilation or local exhaust should be suitable to keep vapor concentrations below the TLV. Ventilation equipment should be explosion-proof.
General Hygiene Considerations	Handle all chemicals with caution and care. Always wash hands before eating, smoking, or using toilet facilities. As with all chemicals, caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	Hazy liquid with a solvent odor.	**Odor**	Solvent
Color	Clear to hazy	**Odor threshold**	No information available

Property	**Values**	**Remarks • Method**
pH	No information available	
Melting point / freezing point	No information available	
Boiling point / boiling range	56.1 °C	
Flash point	-17 °C	
Evaporation rate	No information available	Faster than N-Butyl Acetate
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	12.8 %	
Lower flammability limit:	1.1 %	
Vapor pressure	24.1	@20°C (kPa)
Vapor density	No information available	Heavier than air
Relative density	0.8429 g/cc	
Water solubility	Negligible.	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous polymerization: Hazardous polymerization does not occur.

Conditions to avoid
Excessive heat, poor ventilation, corrosive atmospheres, excessive aging.

Incompatible materials
Alkaline materials, strong acids, and oxidizing materials.

Hazardous Decomposition Products
Carbon monoxide, carbon dioxide, oxides of nitrogen and possibly acrolein.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information May irritate eyes and skin upon contact. May be harmful if swallowed. May be harmful by inhalation, ingestion, or skin absorption.

Inhalation Avoid breathing vapors or mists. May cause sensitization by inhalation. May cause respiratory irritation. May cause dizziness, breathing difficulty, headaches and loss of coordination.

Eye contact Avoid contact with eyes. May cause severe irritation, tearing, redness, burning sensation, and blurred vision. May cause pain.

Skin contact Avoid contact with skin and clothing. May be harmful in contact with skin. May cause skin irritation and/or dermatitis. May cause burns. May cause an allergic skin reaction.

Ingestion Do not taste or swallow. May be harmful if swallowed. May cause drowsiness or dizziness. May cause irritation. May cause adverse liver effects. May cause adverse kidney effects. May cause central nervous system depression.

Chemical Name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
ACETONE 67-64-1	= 5800 mg/kg (Rat)	-	= 50100 mg/m^3 (Rat) 8 h
METHYL ETHYL KETONE 78-93-3	= 2483 mg/kg (Rat) = 2737 mg/kg (Rat)	= 6480 mg/kg (Rabbit) = 5000 mg/kg (Rabbit)	= 11700 ppm (Rat) 4 h
AMORPHOUS SILICA 7631-86-9	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.2 mg/L (Rat) 1 h

Information on toxicological effects

Symptoms Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Mild skin irritation. May be a skin sensitizer.
Serious eye damage/eye irritation Risk of serious damage to eyes.
Irritation Irritating to eyes, respiratory system and skin.
Corrosivity Not applicable.
Sensitization May cause sensitization by inhalation and skin contact.
Germ cell mutagenicity No information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. Group 3: The agent (mixture or exposure circumstance) is not classifiable as to its carcinogenicity to humans. This category is used most commonly for agents, mixtures and exposure circumstances for which the evidence of carcinogenicity is inadequate in humans and inadequate or limited in experimental animals.

Chemical Name	ACGIH	IARC	NTP	OSHA
AMORPHOUS SILICA 7631-86-9	-	Group 3	Reasonably Anticipated	X

Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard Risk of serious damage to the lungs (by aspiration).

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.
ATEmix (oral) 6,478.00 mg/kg
ATEmix (inhalation-dust/mist) 111.90 mg/l
ATEmix (inhalation-vapor) 350.50

12. ECOLOGICAL INFORMATION

Ecotoxicity

Some % of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
ACETONE 67-64-1	-	4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 8300: 96 h Lepomis macrochirus mg/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static	10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50
METHYL ETHYL KETONE 78-93-3	-	3130 - 3320: 96 h Pimephales promelas mg/L LC50 flow-through	4025 - 6440: 48 h Daphnia magna mg/L EC50 Static 520: 48 h Daphnia magna mg/L EC50 5091: 48 h Daphnia magna mg/L EC50
AMORPHOUS SILICA 7631-86-9	440: 72 h Pseudokirchneriella subcapitata mg/L EC50	5000: 96 h Brachydanio rerio mg/L LC50 static	7600: 48 h Ceriodaphnia dubia mg/L EC50

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility in Soil: No information available.

Chemical Name	Partition coefficient
ACETONE 67-64-1	-0.24
METHYL ETHYL KETONE 78-93-3	0.29

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes When disposing of unused contents the preferred options are to send to a licensed reclaimer or to permitted incinerators. Any disposal practice must be in compliance with federal, state and local regulations. Do not dump into sewers, on the ground, or into any body of water.

Contaminated packaging Do not burn or use a cutting tool on the empty container. Triple rinse containers. May be offered for recycling, re-conditioning, or puncture.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
ACETONE 67-64-1	-	Included in waste stream: F039	-	U002
METHYL ETHYL KETONE 78-93-3	U159	Included in waste streams: F005, F039	200.0 mg/L regulatory level	U159

Chemical Name	California Hazardous Waste Status
ACETONE 67-64-1	Ignitable
METHYL ETHYL KETONE 78-93-3	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT	Regulated
UN/ID no.	UN1133, Adhesive
Hazard Class	3
Packing Group	II

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)

ACETONE 67-64-1	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
METHYL ETHYL KETONE 78-93-3	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ACETONE 67-64-1	X	X	X
METHYL ETHYL KETONE 78-93-3	X	X	X
AMORPHOUS SILICA 7631-86-9	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

HMIS **Health hazards** 2 **Flammability** 3 **Physical hazards** 0 **Personal protection** B

Prepared By Keder Solutions
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Revision Note
No information available

Disclaimer

The data set forth in these sheets are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Keder Solutions makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereon.

End of Safety Data Sheet