



1. Identification Of The Substance/Mixture and of the Company/Undertaking

Product identifier	TBHV	
Other means of identification		
Product code	TBHV	
Recommended use	Pallet Adhesive	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Manufacturer		
Company name	Tekmar	
Address	P.O Box 4700 Santa Barbara, CA 93140 United States	
Telephone	Product Stewardship	805-965-0704
	Transportation	800-564-1096
Website	http://tekmarltd.com/	
E-mail	techsupport@tekmarltd.com	
Emergency phone number	Chemtrec	800-424-9300
	Emergency Phone	805-965-0704
	International	++703 527-3887
Supplier	Refer to Manufacturer	

2. Hazard(s) identification

Emergency Overview

Appearance: liquid, white

CAUTION! MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. NOTICE: WHILE THIS MATERIAL HAS A LOW LEVEL OF TOXICITY, GOOD INDUSTRIAL HYGIENE PRACTICES ARE ENCOURAGED TO MINIMIZE EXPOSURE.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

Unlikely to cause eye irritation or injury.

Skin contact

Unlikely to cause skin irritation or injury.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

Breathing of vapor or mist is possible. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Upper respiratory tract, Skin, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), Lung irritation, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), Difficulty in breathing, lung edema (fluid buildup in the lung tissue)

Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, blood abnormalities, respiratory tract damage (nose, throat, and airways)

Carcinogenicity

Vinyl acetate caused an increase in cancer of the nasal cavity in rats. The relevance of this finding to humans is uncertain. The International Agency for Research on Cancer (IARC) reclassified this chemical from Group 3 (not able to be classified) to Group 2B (possibly carcinogenic in humans) in 1995. This classification is based on the study in rats, along with knowledge that vinyl acetate is changed to acetaldehyde, a known animal carcinogen, in the body.

Reproductive hazard

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / Trade Secret No.	Concentration
VINYL ACETATE MONOMER	108-05-4	$\geq 0.1 - < 0.5\%$

4. FIRST AID MEASURES

Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin

First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

Ingestion

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, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: No information available.

Treatment: No information available

5. FIREFIGHTING METHODS

Suitable extinguishing media

Dry chemical, Carbon dioxide (CO₂), Water spray

Hazardous combustion products

Carbon dioxide and carbon monoxide, Hydrocarbons

Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Other information

Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling

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.

Storage

Store in a cool, dry, ventilated area. Store in a cool, dry, ventilated area. Store in a cool, dry, ventilated area.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Guidelines

Contains no substances with occupational exposure limit values.

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection

Wear resistant gloves (consult your safety equipment supplier).

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Color	white
Flash point	> 200.1 °F / > 93.4 °C
Vapor pressure	(>)24.660 hPa @ 70 °F / 21 °C
Density	1.02 g/cm ³ @ 70 °F / 21 °C
Water solubility	dispersible

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Heat, flames and sparks., Exposure to sunlight.

Incompatible products

aluminum, Amines, Ammonia, Bases, Copper alloys, galvanized metals, strong mineral acids, strong organic acids, Strong oxidizing agents, silica, peroxides, UV light., Zinc

Hazardous decomposition products

Carbon dioxide and carbon monoxide, Hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization.

11. TOXICOLOGICAL INFORMATION**Acute oral toxicity**

Acute oral toxicity - Product	no data available
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Acute oral toxicity-Components

VINYL ACETATE MONOMER	LD 50: 2,920 mg/kg Species: Rat
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Acute inhalation toxicity

Acute inhalation toxicity - Product	no data available
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Acute inhalation toxicity-Components

VINYL ACETATE MONOMER	LC 50: 3,680 mg/l Exposure time: 4 h Species: Rat
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Acute dermal toxicity

Acute dermal toxicity - Product	no data available
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Acute dermal toxicity-Components

VINYL ACETATE MONOMER	LD 50: 2,335 mg/kg Species: Rabbit
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Acute toxicity (other routes of administration)

Acute toxicity (other routes of administration)	no data available
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12. ECOLOGICAL INFORMATION**Biodegradability**

Biodegradability- Product	no data available
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Bioaccumulation

Bioaccumulation - Product	no data available
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Ecotoxicity effects**Toxicity to fish**

Toxicity to fish - Product	no data available
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Toxicity to fish - Components

VINYL ACETATE MONOMER	LC 50: 14 mg/l Exposure time: 96 h Species: Fathead minnow (Pimephales promelas) Test Type: static test
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Toxicity to daphnia and other aquatic invertebrates

Toxicity to daphnia and other aquatic invertebrates	no data available
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Toxicity to daphnia and other aquatic invertebrates-Components

VINYL ACETATE MONOMER	LC 50: 330 mg/l Exposure time: 24 h Species: Water flea (Daphnia magna) Test Type: static test
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Toxicity to daphnia and other aquatic invertebrates

Toxicity to daphnia and other aquatic invertebrates	no data available
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Toxicity to algae

Toxicity to algae-product	no data available
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Toxicity to bacteria

Toxicity to algae-product	no data available
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13. DISPOSAL CONSIDERATIONS**Waste disposal methods**

Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction.

**14. TRANSPORTATION INFORMATION
REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY

U.S. DOT – ROAD: Not Dangerous Goods

U.S. DOT – RAIL: Not Dangerous Goods

U.S. DOT – INLAND WATERWAYS: Not Dangerous Goods

TRANSPORT CANADA - ROAD: Not Dangerous Goods

TRANSPORT CANADA - RAIL: Not Dangerous Goods

TRANSPORT CANADA – INLAND WATERWAY: Not Dangerous Goods

INTERNATIONAL MARITIME DANGEROUS GOODS: Not Dangerous Goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION – CARGO: Not Dangerous Goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION – PASSENGER: Not Dangerous Goods

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES:
Not Dangerous Goods

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

WARNING! This product contains a chemical known to the State of California to cause cancer.	ACETALDEHYDE BENZENE 1,4-DIOXANE ETHYLENE OXIDE
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WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.	BENZENE ETHYLENE OXIDE
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SARA Hazard Classification SARA 311/312 Classification Chronic Health Hazard
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SARA 313 Component(s)

VINYL ACETATE MONOMER	0.37 %
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Notification status

US. Toxic Substances Control Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	n (Negative listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	n (Negative listing)
Japan. Kashin-Hou Law List	n (Negative listing)
Korea. Toxic Chemical Control Law (TCCL) List	n (Negative listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	n (Negative listing)
China. Inventory of Existing Chemical Substances	n (Negative listing)

HMIS RATING

HEALTH:	0
FLAMMABILITY:	0
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	SEE SEC. 8

NFPA CODES

HEALTH	0
FLAMMABILITY	0
REACTIVITY	0

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