

# Material Safety Data Sheet

XB-90K5-LF

## **Product** and company identification

**Product name** XB-90K5-LF

**MSDS Number** 000000101062

**Product Type** Polyvinyl Acetate Resin

Product use Emulsion.

Supplier Manufacturer, Importer, Hexion Specialty Chemicals, Inc. 610 South Second St Springfield OR 97477

hazcom@hexion.com

15-FEB-2010

**Print date** 

Telephone

For Emergency Medical Assistance
Call Health & Safety Information Services, 1-866-303-6949

For Emergency Transportation Information CHEMTREC US Domestic (800) 424-9300 CHEMTREC International (703) 527-3887 CANUTEC CA Domestic (613) 996-6666

For additional health and safety or regulatory information, call 1 888-

4-Hexion.

#### Ņ Hazards identification

Liquid

Form

OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Emergency overview** 

Potential acute health effects
Inhalation Exposure to airborne concentrations above statutory or recommended

exposure limits may cause irritation of the nose, throat and lungs

Ingestion Not expected to be harmful under normal conditions of use

Skin May cause irritation on prolonged or repeated contact.

Eyes May cause eye irritation

Potential chronic health effects
Chronic effects
No

No known significant effects or critical hazards.

Carcinogenicity Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.

Teratogenicity Mutagenicity No known significant effects or critical hazards No known significant effects or critical hazards

2/15/2010 1/8

**Developmental effects** No known significant effects or critical hazards

Fertility effects No known significant effects or critical hazards

Target organs Review Section 2 and 11 for any additional assessments.

formaldehyde as a potential human carcinogen. See the OSHA formaldehyde standard 29 CFR 1910.1048 for further details. The International Agency for Research on Cancer (IARC) has classified respiratory tract and may aggravate existing respiratory conditions or allergies. OSHA has listed formaldehyde as a potential human carcinogen. See the OSHA formaldehyde standard 29 CFR and level will depend on local conditions of use. formaldehyde as carcinogenic to humans Residual formaldehyde gas may be released from this product during processing. Formaldehyde gas is irritating to the eyes and upper The amount

Over-exposure signs/symptoms

Inhalation No specific data

Ingestion No specific data

No specific data

Eyes No specific data

Medical conditions aggravated by over-exposure None known

See section 11 for more detailed information on health effects and symptoms.

#### در Composition/Information 2 ingredients

Ingredient name CAS number Vinyl Acetate 108-05-4	
<u>umber                                    </u>	

Any applicable Canadian trade secret numbers will be listed in Section 15

# First aid measures

Eye contact any contact lenses. Get medical attention if irritation occurs Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove

clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Flush contaminated skin with plenty of water. Remove contaminated

Skin contact

Inhalation

Clean shoes thoroughly before reuse

clothing such as a collar, tie, belt or waistband. Get medical attention. resuscitation. If unconscious, place in recovery position and get dangerous to the person providing aid to give mouth-to-mouth artificial respiration or oxygen by trained personnel. It may be breathing, if breathing is irregular or if respiratory arrest occurs, provide Move exposed person to fresh air. Keep person warm and at rest. If not medical attention immediately. Maintain an open airway. Loosen tight

Ingestion unconscious person. Get medical attention immediately. do so by medical personnel. Never give anything by mouth to an Wash out mouth with water. Do not induce vomiting unless directed to

personnel Protection of first aid training. It may be dangerous to the person providing aid to give mouth-No action shall be taken involving any personal risk or without suitable

to-mouth resuscitation.

### Notes to physician

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See section 11 for more detailed information on health effects and symptoms

### Ġ Fire-fighting measures

product Flammability of the

In a fire or if heated, a pressure increase will occur and the container

may burst.

Extinguishing media Suitable

Use an extinguishing agent suitable for the surrounding fire

Not suitable

None known

Special exposure hazards

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any

personal risk or without suitable training

products Hazardous combustion

Decomposition products may include the following materials: carbon oxides

equipment for fire-fighters Special protective

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Accidental release measures

Personal precautions

spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through Put on appropriate personal protective equipment (see section 8)

precautions Environmental

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or

Large spill

diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with nonrelease from upwind. Prevent entry into sewers, water courses Stop leak if without risk. Move containers from spill area. Approach contact information and section 13 for waste disposal. same hazard as the spilled product. Note: see section 1 for emergency disposal contractor. Contaminated absorbent material may pose the combustible, absorbent material e.g. sand, earth, vermiculite or

Small spill

water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with

#### 7 Handling and storage

#### Handling

product residue and can be hazardous. Do not reuse container. material, kept tightly closed when not in use. Empty containers retain original container or an approved alternative made from a compatible with adequate ventilation or wear appropriate respirator. Keep in the during normal use the material presents a respiratory hazard, use only hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If material is handled, stored and processed. Workers should wash Eating, drinking and smoking should be prohibited in areas where this Put on appropriate personal protective equipment (see section 8).

#### Storage

protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to containment to avoid environmental contamination. prevent leakage. Do not store in unlabeled containers. Use appropriate Store in accordance with local regulations. Store in original container

# Exposure controls/personal protection

# Ingredient name

Vinyl Acetate

Occupational exposure limits

35 mg/m3 10 ppm

ACGIH TLV 8-hr TWA

ACGIH TLV STEL (15 min) 53 mg/m3 15 ppm

# Consult local authorities for acceptable exposure limits.

#### monitoring procedures Recommended

and/or the necessity to use respiratory protective equipment. determine the effectiveness of the ventilation or other control measures workplace atmosphere or biological monitoring may be required to If this product contains ingredients with exposure limits, personal,

## **Engineering measures**

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Hygiene measures

close to the workstation location. before reusing. Ensure that eyewash stations and safety showers are remove potentially contaminated clothing. Wash contaminated clothing of the working period. Appropriate techniques should be used to products, before eating, smoking and using the lavatory and at the end Wash hands, forearms and face thoroughly after handling chemical

#### Respiratory

levels, the hazards of the product and the safe working limits of the an approved standard if a risk assessment indicates this is necessary. Use a properly fitted, air-purifying or air-fed respirator complying with selected respirator. Respirator selection must be based on known or anticipated exposure

2/15/2010 4/8

Hands

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes

to liquid splashes, mists or dusts. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure

Skin

approved by a specialist before handling this product. on the task being performed and the risks involved and should be Personal protective equipment for the body should be selected based

controls **Environmental exposure** 

protection legislation. In some cases, fume scrubbers, filters or checked to ensure they comply with the requirements of environmental Emissions from ventilation or work process equipment should be

to reduce emissions to acceptable levels engineering modifications to the process equipment will be necessary

#### 9 **Physical** and chemical properties

Form

Auto-ignition temperature Flash point Not applicable Not applicable

Flammable limits

Color Upper: Lower: Not applicable Not applicable

**Boiling point** Opaque

Vapor pressure Relative density 5.0 - 5.5 @ 25 °C(77 °F) Greater than 100 °C(212 °F) Approx. 1.2 Not applicable

Evaporation rate Dynamic- 2,000 -Infinite

2,500 cPs

Solubility Viscosity

Less than 1 (n-Butyl acetate=1)

50.0 % (m) Not applicable

Typical % solids Vapor density

## 10. Stability and reactivity

Stability The product is stable. Under normal conditions of storage and use,

hazardous polymerization will not occur.

Conditions to avoid

Materials to avoid

Strong oxidizer,

materials, acids,

Reactive or incompatible with the following materials: oxidizing

**Hazardous decomposition** 

carbon oxides

products

## <u>:</u> Toxicological information

Ingredient name Acute toxicity

Vinyl Acetate

Mouse Rat

LD50 LD50

Oral Oral

2,900 mg/kg 1,600 mg/kg

2/15/2010

5/8

LD50 Dermal		LC50 Inhalation		LC50 Inhalation
pig Rabbit	Guinea	Rabbit	Mouse	Rat
2,335 mg/kg	6200 ppm/4 h	2500 ppm/4 h	1550 ppm/4 h	11.4 mg/l/4 h

## Other Toxicological Information

#### Carcinogenicity Conclusion/Summary

respiratory tract of laboratory animals in lifetime inhalation studies at high exposure levels (600 ppm). Vinyl acetate vapors have been shown to cause tumors of the

#### Classification Ingredient name

Vinyl Acetate

ACGIH Confirmed animal carcinogen with unknown relevance to

humans.

IARC Not listed Possibly carcinogenic to humans (Group 2B)

NTP OSHA Not regulated

# **Ecological information**

## **Environmental effects**

No known significant effects or critical hazards

#### Ingredient name Vinyl Acetate Aquatic ecotoxicity

Fresh water Acute LC50 14 mg/l/96 h

Fathead minnow

### Other adverse effects

No known significant effects or critical hazards

# Disposal considerations

#### Waste disposal

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byenvironmental protection and waste disposal legislation and any regional products should at all times comply with the requirements of and contact with soil, waterways, drains and sewers. local authority requirements. Avoid dispersal of spilled material and runoff

## Transportation

for transportation. The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment

CFR	information	Regulatory	International transport regulations		
	number	S	ransport re		
Non-regulated		Proper shipping name	gulations		
	Classes/*PG				
	Quantity (RQ)	Reportable			

2/15/2010 6/8

TDG

Non-regulated

IMO/IMDG Non-regulated

IATA (Cargo) Non-regulated

\*PG: Packing group

#### <u>15</u>. Regulatory information

US regulations
HCS Classification

Carcinogen

U.S. Federal regulations

SARA 311/312 Classification Delayed (chronic) health hazard

SARA 313 - Supplier Notification

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372. Diethylene Glycol Ethyl Ether Acetate - 112-15-2 ( 2.85%), Vinyl Acetate - 108-05-4 (

SARA 302 Extremely Hazardous Substances None required.

State regulations

Massachusetts RTK Substances None required

New Jersey RTK Hazardous Substances The following components are listed:

Diethylene Glycol Ethyl Ether Acetate, Vinyl Acetate,

Pennsylvania RTK Hazardous Substances The following components are listed:

Diethylene Glycol Ethyl Ether Acetate, Vinyl Acetate,

**California Prop. 65:** WARNING: This product contains a chemical known to the State of California to cause cancer. Formaldehyde - 50-00-0, Acetaldehyde - 75-07-0,

Canada WHMIS (Canada)

Class D-2A: Material causing other toxic effects (Very toxic)

Canadian lists

Canadian NPRI: None required.

International regulations
Chemical inventories

Europe inventory All components are listed or exempted

Japan inventory (ISHL) Not determined.

Philippines inventory (PICCS) Not determined.

New Zealand Inventory of Chemicals (NZIoC) Not determined Japan inventory (ENCS) Not determined.

Korea inventory (KECI) Not determined.

Australia inventory (AICS) All components are listed or exempted. China inventory (IECSC) Not determined.

components are listed in NDSL. Canada inventory At least one component is not listed in DSL but all such

United States inventory (TSCA 8b) All components are listed or exempted

#### <u>.</u> Other information

Information System III (U.S.A.) **Hazardous Material** 

Physical hazards: 0 Chronic: \* Flammability: 0 Health: 1

2/15/2010 7/8

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

Date of printing Date of issue Prepared by 4.0 Product Safety & Regulatory Compliance Group, (614)225-4778 29-DEC-2008 15-FEB-2010

#### Notice to reader

comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Hexion are subject to Hexion's terms and conditions of sale. HEXION MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to constitutes an offer for the sale of any product. HEXION, except that the product shall conform to Hexion's specifications. Nothing contained herein The information provided herein was believed by Hexion Specialty Chemicals ("Hexion") to be

2/15/2010 8/8

<sup>&</sup>lt;sup>®</sup> and "Licensed trademarks of Hexion Specialty Chemicals, Inc.