



Safety Data Sheet (SDS)

Revision / Review Date: 6/30/14

1. Chemical Product and Company Identification

Product Name: EVA 1328
Distributed By: HB Chemical
1665 Enterprise Parkway
Twinsburg Oh 44087
Phone - 330-920-8023
MSDS Prepared By (w Suppliers Input): HB Chemical
Chemical Name / Family: Industrial Resin
CAS NO. 24937-78-8
Product Use: Resin
OSHA Status: Not Hazardous

For emergency health, safety, and environmental information, calls 330-920-8023
For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

2. Hazard(s) Identification

GHS classification of substance /mixture: Not available.

GHS label elements, including precautionary statements:

Pictogram and symbol: Not available
Signal word: Not available
Hazard statements: Not available

Precautionary statements:

Precaution: Not available
Treatment: Not available
Storage: Not available
Disposal: Not available

NF PA: health: 1 fire: 1 reactive: 0

3. Composition / Information on Ingredients

Chemical Name	Common Name Synonyms	CAS number	Content (%)
ETHYLENE-VINYL ACETATE COPOLYMER	EVA	24937-78-8	> 99.5

HB Chemical 1665 Enterprise Parkway Twinsburg, Ohio 44087

Phone 330-920-8023 Fax 330-920-0971

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4. First Aid Measures

<u>Inhalation:</u>	Move victim to fresh air. Get medical attention immediately if irritation and symptoms persist. Use first aid treatment according to the nature of the injury. Give artificial respiration if victim is not breathing.
<u>Eyes:</u>	Keep away from spilled material, if you effects of exposure. In case of contact with substance, wash off immediately with plenty of water for at least 15 minutes. In case of contact with substance, get medical attention.
<u>Skin:</u>	Remove and isolate contaminated clothing and shoes. Wash skin with soap and water for at least 15 minutes. Get medical attention immediately if symptoms persist. Wash contaminated clothing and shoes before reused.
<u>Ingestion:</u>	If swallowed, immediately call a POISON CENTER or doctor/physician. If vomiting occurs, keep head lower than hips to prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately if irritation and symptoms persist.
<u>Acute and delayed symptoms/effects:</u>	Inhalation, Skin Contact, Eye contact: May cause skin, eye Irritation.
<u>Indication of immediate medical attention and Notes for physician:</u>	Call 911 or emergency medical service. Get immediate medical advise/attention, if you needed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. Fire-Fighting Measures

<u>Suitable Extinguishing Media:</u>	Dry Chemical, CO ₂ , Water spray, regular foam.
<u>Unsuitable extinguishing Media:</u>	Not available. In case of major fire and large quantities: Regular extinguishing agent, fine water spray. Move containers from fire area if you can do it without risk.
<u>Special Fire Fighting Procedures:</u>	Avoid inhalation of the substance or combustion products. Stay upwind. Keep out of low areas.
<u>Specific hazards arising from the chemical:</u>	Thermal decomposition products: CO, CO ₂ , aldehyde, organic acid, alcohol. Fires and an explosion: some may burn but none Ignite readily. Containers may explode when heated.
<u>Tank/trailer/train truck fires:</u>	Do not get water inside containers. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks

engulfed in fire.

6. Accidental Release Measures

Personal precautions, protective equipment and Emergency procedures:

Stop Leak if you can do it without risk. Keep unauthorized personnel away. Prevent leak by appropriate protective equipment. Ventilate the exposed area.

Environmental precautions and protective procedures:

Atmosphere, Provide appropriate ventilation.
Land: Make an embankment for further processing.
Underwater: Prevent entry into waterways, sewers, basements.

Waste Disposal:

Small spill: Absorb with non-combustible material.
Large spill: Make an embankment for further processing.
Eliminate all ignition sources. Reclaim or dispose of in accordance with local, state, and federal regulations .

7. Handling and Storage:

Precautions for safe handling:

Store and use by regulation of central government and local self-government. Provide local exhaust ventilation system. Wash contaminated clothing after use.

Conditions for safe storage:

Store and use by regulation of central government and local self-government. Store in cool and dry place.

8. Exposure Controls / Personal Protection

Occupational Exposure Limits:

Korean Occupation of Safety and Health Regulation : Not Available.
ACGIH: Total dust TWA = 15 mg/m³ (8-hr day), TWA = 5 mg/m³ (8-hr day, Respirable fraction)
OSHA: Total dust TWA = 10 mg/m³ (8-hr day, inhalable fraction), TWA = 3 mg/m³ (8-hr day, Respirable fraction)
NIOSH: Not available Biological exposure index : Not available
EU Regulation: Not available

Appropriate engineering controls:

Provide local exhaust ventilation system or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Check legal suitability of exposure level.

Respiratory Protection:

Respiratory protection: Wear NIOSH or European Standard EN 149 approved full or half face piece (with goggles) respiratory protective equipment.

Protective Gloves:

Wear appropriate chemical-resistant gloves that protect chemicals directly

Eye Protection: An eye wash unit and safety shower station should be available nearby work place. Wear face piece with goggles to protect from scattering toxic substance.

Skin and Body Protection: Wear appropriate protective chemical-resistant clothing.

9. Physical and Chemical Properties

Appearance: Solid (white or transparent pellet)
Odor/Odor threshold: Sour odor(Vinegar odor)/Not available.
pH: Not applicable
Melting point/freezing point: 60 ~ 105 °C
Initial boiling point and boiling range: Not available
Flash point: >270 °C
Evaporation rate: Not applicable
Flammability : Not available
Upper/lower flammability or explosive limits: Not available
Vapor pressure: Not applicable
Vapor density: Not applicable
Relative density: Not available
Solubility (ies): Negligible
Specific gravity: 0.920 ~ 0.960 (Water=1)
Partition coefficient: n-octanol/water: Not available
Auto ignition temperature: >400 °C
Decomposition temperature: Not available
Viscosity: Not available

Molecular weight: tens of thousands ~ hundreds of thousands (polymer)

10. Stability and Reactivity

Stability: Stable under normal temperatures and pressures.
Incompatibility (Materials to Avoid): Strong oxidizing agents such as nitrates , chlorates, peroxides.
Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition. Avoid contact with prohibited mixture materials. Avoid release to the environment.
Possibility of hazardous reactions: No dangerous reaction know under conditions of normal use.
Hazardous decomposition products: May cause methane, propane, carbon oxide, aldehyde and other organic vapors when thermal decomposition.

11. Toxicological Information

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):

Inhalation, Skin contact, Eye contact : May cause skin, eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics:

Explosives, Water reactive substances, Oxidizing, Self-reactive substances, Organic peroxides: Not applicable (no relevance to molecular structure) Refer to "5) Acute and delayed symptoms/effects" of "4.First aid measures"

Symptoms related to the physical, chemical and toxicological characteristics:

Acute toxicity: oral: Not available
Dermal: Not available
Inhalation: Not available
Skin Corrosion/ Irritation: Not available
Serious Eye Damage/ Irritation: Not available
Respiratory sensitizer: Not available
Skin Sensitization: Not available
Carcinogenicity: Not available-IARC, ACGIH, NTP, OSHA, EC Directive 1272/2008, US EPA: not listed
Mutagenicity: Not available
Reproductive toxicity: Not available
Specific target organ toxicity (single exposure): Not available
Specific target organ toxicity (repeat exposure): Not available
Aspiration Hazard: Not available

12. Ecological Information

Aquatic Ecotoxicity:

Acute toxicity: Not available-Chronic toxicity: Not available

Persistence degradability:

Persistence: Not available.
Degradability: Polymers are not readily degradable.

Bioaccumulative potential:

Bioaccumulative potential: Polymers are not biodegradable, a potential for bioaccumulation has to be expected.

Mobility in soil:

Not available.

13. Disposal Considerations

Disposal method:

When prescribed in the Waste Control Act, in accordance with the regulations, please discard the contents and the containers. Please incinerate waste synthetic polymer compounds (other synthetic resins).

Disposal precaution:

All the generated waste shall be disposed in accordance with the specific standard and method prescribed in the Act so that the environmental pollution may be minimized in the course of collecting, carrying, keep and disposing the waste.
The waste shall be disposed in the waste disposal facility.
The pollutants shall be disposed below the allowable exhaust

standard.
Without just reason, the waste shall not be discarded in a place other than the designated places.
The regulations under the Waste Control Act shall be observed.

14. Transport Information

D.O.T. Shipping Name Not applicable.
Air - ICAO (international Civil Aviation Organization) Not applicable.
Sea - IMDG (International Maritime Dangerous Goods) Not applicable.

15. Regulatory Information

Korea: Occupational Safety and Health Regulation : Not regulated
Toxic Chemical Control Act : Not regulated
Dangerous Material Safety Management Regulation : Not Regulated It can be classified as special combustible materials when storage and handling (>3000kg). Therefore, It restricted to mark objects(name of goods, maximum quantities, strictly prohibited firearms), installation height and area, distance between products, fire protection facilities.
Wastes Control Act : Not regulated

EU classification:

- Classification: Not available
- Risk phrases: Not available
- Safety phrases: Not available
- EU REACH SVHC Free Certified(Candidate list Updated by ECHA on 16th Dec, 2013)

U.S.A management information

- OSHA: Not regulated
- CERCLA: Not regulated
- EPCRA 302: Not regulated
- EPCRA 304: Not regulated
- EPCRA 313: Not regulated
- TSCA Section 8(b) Inventory : XU
- FDA - Direct Food Additives: 21 CFR 175.300, 21 CFR 177.1200 (complying with section 177. 1350)

EU management information

European List of Notified Chemical Substances (ELINCS): EEC No. 429-840-1

Australia management information

Inventory of Chemical Substances (AICS): Present

Japan management information

Existing and New Chemical Substances (ENCS): (6)-6; (6)-82
Prevention of Marine Pollution and Disaster - Noxious Liquid Substances: Present

China management information

Inventory of Existing Chemical Substances (IECSC): Present

Canada management information

Domestic Substances List (DSL): Present

New zealand management information

Inventory of Chemicals (NZIoC): May be used as a single component chemical under an appropriate group standard.

<u>Philippines management information</u>	Inventory of Chemicals and Chemical Substances (PICCS): Present
<u>Substance of Roterdame Protocol:</u>	Not applicable
<u>Substance of Stockholme Protocol:</u>	Not applicable
<u>Substance of Montreal Protocol:</u>	Not applicable

16. Other Information

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.