SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : **ARDEX E 25™**
Product ID No. : 70011291
Trade Name/Synonyms : E 25
Material Use : Resilient Emulsion. Improves the elasticity and flexural strength of ARDEX Self Leveling Underlayments.
Uses Advised Against : Use only as recommended in the product's Technical Data Sheet.

Manufacturer's name and address:

ARDEX L.P.
400 Ardex Park Dr.
Aliquippa, PA 15001 USA

Information Telephone No. : (888) 512-7339 or (724) 203-5000
Website Address : http://www.ardexamericas.com
24 Hr Emergency Telephone # : **CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)**

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)

: Carcinogenicity (Category 2B)

GHS Symbols :



Signal Word : Warning!

Hazard statements : Suspected of causing cancer.

Precautionary statements : Obtain special instructions before use. (See Section 7.) Do not handle until all safety precautions have been read and understood. Do not breathe vapors or mist. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection. Dispose of contents / container in accordance with federal, state, and local laws. Do not allow product to enter drains.

Hazards Not Otherwise Classified

None

% With Unknown Acute Toxicity : Less than 1% by weight of this product is comprised of ingredients with unknown acute toxicity.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (by weight)
Vinyl acetate	108-05-4	0.10 – 0.2

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

SECTION 4 – FIRST AID MEASURES

General : Call a Poison Center or doctor if you feel unwell.

Inhalation : Remove person to fresh air and keep at rest in a position comfortable for breathing. Get medical attention.

Skin contact : Remove contaminated clothing. Flush affected skin with water. If irritation or rash occurs, seek medical attention/advice.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

Ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

Notes for Physician : Treat symptomatically.

Signs and symptoms of short-term (acute) exposure

Inhalation : None known.

Skin : Direct skin contact may cause slight or mild, transient irritation.

Eyes : May cause mild transient irritation.

Ingestion : None known.

Effects of long-term (chronic) exposure

: Prolonged skin contact may cause skin irritation.

SECTION 5 – FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

: Not flammable under normal conditions of use. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.1200 and WHMIS 2015)

: Non-flammable

Suitable extinguishing media : Dry chemical, carbon dioxide and foam, water spray.

Special fire-fighting procedures/equipment

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.

Hazardous combustion products : vinyl acetate; acetic acid; Aldehydes; Carbon oxides.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear chemically resistant personal protective equipment during cleanup. Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate chemically protective equipment. Product may create a slip hazard when spilled. Refer to Section 8 for additional information on acceptable personal protective equipment.

Environmental precautions : Do not allow product to enter waterways. Do not allow material to contaminate ground water system.

Spill response / clean-up : Ventilate area of release. Stop spill or leak at source if safely possible. Contain material, preventing it from entering sewer lines or waterways. Using shovels or squeegees, gather up spilled material and place in suitable container for later disposal (see Section 13). Notify the appropriate authorities as required.

Prohibited materials : None known.

Special spill response procedures : This product contains trace amounts of vinyl acetate, which has a CERCLA Reportable Quantity of 5000 lbs. Due to the low level of vinyl acetate in this product, spills or releases of this product will not exceed the Reportable Quantity, and therefore it is not necessary to notify the U.S. EPA for spills. For advice on chemical spills with this product, call the emergency number listed in Section 1.

US CERCLA Reportable Quantity (RQ): Vinyl Acetate: 5,000 lbs. (equivalent to 2,500,000 lbs. of this product).

SECTION 7 – HANDLING AND STORAGE

Safe handling procedures : Wear suitable protective equipment during handling. (See Section 8.) Use with adequate ventilation. Training the workers on the potential health hazards associated with product vapor is important. Secondary inhalation exposures could occur when cleaning equipment, or when removing or laundering the clothing. Do not breathe vapor or mist. Avoid contact with skin, eyes and clothing. Keep away from oxidizing materials. Keep containers tightly closed when not in use. Wash thoroughly after handling.

Storage requirements : Store in a cool, dry, well-ventilated area. Do not store near any incompatible materials (see Section 10). Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

Incompatible materials : See Section 10.

Special packaging materials : Always keep in containers made of the same materials as the supply container. Do not reuse empty container without commercial cleaning or reconditioning

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible exposure levels

Ingredients	CAS #	ACGIH TLV		OSHA PEL	
		TWA	STEL	PEL	STEL
Vinyl acetate	108-05-4	10 ppm	15 ppm	10 ppm	20 ppm

Ventilation and engineering measures: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Eye / face protection : Wear eye protection such as safety glasses with side shields.

Skin protection : Impervious gloves must be worn when using this product. Nitrile rubber is recommended.

Other protective equipment : Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact.

Respiratory protection : Respiratory protection is required if the concentrations exceed the TLV. If the TLV is exceeded, a NIOSH/MSHA-approved respirator with organic vapor cartridges is advised.

General hygiene considerations : Avoid contact with eyes, skin and clothing. Do not breathe vapors/mist. Do not eat, drink or smoke when using this product. Clean all equipment and clothing at end of each work shift.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid	**Appearance**	: light blue, milky
Odor	: mild	**Odor threshold**	: N/Av
pH	: 2.5 – 3.0	**Specific gravity**	: 1.03 – 1.05
Boiling point	: N/Av	**Coefficient of water/oil distribution**	: N/Av
Melting/Freezing point	: N/Av	**Solubility in water**	: miscible
Vapor pressure (mm Hg @ 20°C / 68°F)	: N/Av	**Evaporation rate (*n*-Butyl acetate = 1)**	: N/Av
Vapor density (Air = 1)	: N/Av	**Volatiles (% by weight)**	: 57 – 60 (includes water)
Volatile organic compounds (VOCs)	: 2 g/L	**General information**	: N/Av
Particle size	: N/Av	**Flammability properties**	: : Non-flammable
Flash point	: >93.3°C (>200°F)	**Lower flammable limit (% by vol)**	: Not applicable
Flash point method	: Setaflash closed cup	**Upper flammable limit (% by vol)**	: Not applicable
Auto-ignition temperature	: N/Av	**Oxidizing properties** :	None
Flame projection length	: Not applicable	**Flashback observed** :	Not applicable

Explosion data: Sensitivity to mechanical impact / static discharge

: Not expected to be sensitive to mechanical impact or static discharge.

SECTION 10 – REACTIVITY AND STABILITY INFORMATION

Stability and reactivity : Stable under the recommended storage and handling conditions prescribed.

Hazardous polymerization : Hazardous polymerization does not occur.

Conditions to avoid : Extreme heat.

Materials to avoid and incompatibility

: Oxidizing agents; Acids.

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Exposure **:** *Inhalation:* YES *Skin Absorption:* YES *Skin and Eyes:* Yes *Ingestion:* YES

Calculated Acute Toxicity Estimates for the Product

Inhalation : > 40 mg/L

Oral : > 4000 mg/kg

Dermal : > 4000 mg/kg

Toxicological data : See below for individual ingredient acute toxicity data.

	LC50 (4 hr)	LD50	
Ingredients	Inhalation, rat, mg/L	Oral, rat, mg/kg	Dermal, rabbit, mg/kg
Vinyl acetate	11.4	2900	2335

Corrosion or Irritation to Skin : May cause slight irritation to the skin.

Damage or Irritation to Eyes : May cause slight irritation to eyes.

Skin or Respiratory Sensitization : None known.

Mutagenicity : None known.

Carcinogenic status : Contains vinyl acetate. Vinyl acetate is classified as carcinogenic by IARC (Group 2B, *possibly carcinogenic to humans*) and ACGIH (Category A3, *Confirmed animal carcinogen with unknown relevance to humans*).

Reproductive effects : There are no components present at ≥ 0.1% that are known to cause reproductive effects.

Epidemiology : Not available.

Synergistic materials : N/Av

Irritancy : Mild.

Additional Information : See Section 2 for additional information.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental effects : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Important environmental characteristics

: N/Av

Ecotoxicity : No data available.

Biodegradability : 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.

SECTION 13 – DISPOSAL CONSIDERATION

Handling for disposal : Handle waste according to recommendations in Section 7.

Methods of disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

RCRA : For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 – TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	**None**	**Not regulated**	**Not Regulated**	**None**	
TDG Additional Information	**None**				
49 CFR/DOT	**None**	**Not regulated**	**Not Regulated**	**None**	
49 CFR/DOT Additional Information	**None**				

Not regulated by IMDG.

Not regulated by IATA.

Not a Marine Pollutant.

SECTION 15 – REGULATORY INFORMATION

Canadian Information:

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): Vinyl acetate, 5000 lbs.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances: Threshold Planning Quantity (TPQ) for Vinyl acetate: 1000 lbs.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Carcinogenicity.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The threshold for Vinyl acetate is 500 pounds, equivalent to 250,000 lbs. of this product.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: vinyl acetate.

U.S. State Right to Know Laws

California Proposition 65: See product label for information regarding Proposition 65 status.

Other U.S. State "Right to Know" Lists:

Ingredients and State Right-to-Know Law status	N° CAS	CA	MA	MN	NJ	NY	PA	RI
Vinyl Acetate	108-05-4	Yes	Yes	Yes	Yes	Yes	Yes	Yes

SECTION 16 – OTHER INFORMATION

HMIS Rating : * - Chronic Hazard 0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe

Health: *3 *Flammability* 1 *Physical Hazard* 0 PPE: Gloves, safety glasses

Legend **:** ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL: Domestic Substances List
EPA: Environmental Protection Agency
GHS: Globally Harmonized System
HPR: Hazardous Products Regulations
IARC: International Agency for Research on Cancer
Inh: Inhalation
N/Av: Not Available
N/Ap: Not Applicable
NIOSH: National Institute of Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

Disclaimer of Liability

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.
No warranty of any kind is given or implied. ARDEX L.P. will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

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