



1. Product Identification

PRODUCT TYPE	Resin Adhesive
PRODUCT NAME	14-14306
PRODUCT CODE	14-14306
CHEMICAL FAMILY	Emulsion Polymer
SYNONYM NAME(S)	Vinyl Polymer Adhesive

2. Hazards Identification

EMERGENCY OVERVIEW	While milky liquid, slight acetic odor, vapors may cause eye irritation. Vapors are irritating to the respiratory tract. Contact may cause skin irritation.
ROUTES OF ENTRY	Inhalation, skin, and eye contact
ACUTE EXPOSURE	EYES: Direct contact with this material may cause eye irritation including tearing and redness. INHALATION: Inhalation of vapor or aerosol causes irritation of respiratory tract (nose, throat, lungs). SKIN: Contact may cause skin irritation. INGESTION: No hazard in normal industrial use.
CHRONIC EXPOSURE	Prolonged contact with skin may cause irritation and dermatitis (inflammation).
CARCINOGENICITY	This material does not contain 0.1% or more of any chemical listed by the International Agency of Research on Cancer (IARC), The National Toxicology Program (NTP), or regulated by the Occupational Safety and Health Administration (OSHA) as a carcinogen.

3. Composition/Information on Ingredients

CHEMICAL	CAS NO.	WT. %	EXPOSURE LIMITS

Recommended HMIS III Rating: 110A

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4. First Aid Measures

EYES	Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Get prompt medical attention. *NOTE: Mild irritant on eyes.
SKIN CONTACT	Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Wash or discard contaminated clothing.
INHALATION	Remove to fresh air. If difficulty breathing persists, seek medical attention.
INGESTION	Call poison control center, follow their specific instructions. Do not induce vomiting.

5. Fire Fighting Measures

FLASH POINT	Not applicable
FLAMMABLE LIMITS IN AIR (LOWER)	Not applicable
FLAMMABLE LIMITS IN AIR (UPPER)	Not applicable
AUTO-IGNITION	Not applicable
SPEICAL FIRE FIGHTING PROCEDURES	Alcohol foam self-contained breathing apparatus to protect against potentially toxic and irritating fumes.
FIRE & EXPLOSION HAZARDS	This material will not burn unless evaporated to dryness. Closed containers may rupture when exposed to extreme heat.
HAZARDOUS COMBUSTION PRODUCTS	Irritating and toxic gases may be generated and released during combustion.
NFPA FLAMMABILITY HAZARD CLASS	1 = slight

6. Accidental Release Measures

SPILL OR LEAK PROCEDURES	Spills should be taken up with suitable absorbent and placed in containers. Spill area can be washed with water; collect wash water for approved disposal. Do not flush to storm sewer or waterway.
WATER DISPOSAL METHODS	Waste disposal should be in accordance with existing federal, state, and local environmental regulations.

7. Handling and Storage

HANDLING/STORAGE	Keep from freezing, store at temperatures between 50-90°F. Keep in ventilated area to minimize contact with atmospheric air, avoid breathing vapors, avoid eating, drinking, or smoking around open containers.
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8. Exposure Controls/Personal Protection

CONDITIONS UNDER WHICH PPE REQUIRED	Normal work conditions
EYE PROTECTION REQUIREMENTS	Wear safety glasses with side shields
GLOVE REQUIREMENTS	Nitrile or neoprene gloves, if desired
CLOTHING REQUIREMENTS	Not required
CHANGE/REMOVAL OF CLOTHING	Not required
WASH REQUIREMENTS	Not required
RESPIRATOR REQUIREMENTS	Not required, under normal use
ENGINEERING CONTROLS	Good, general ventilation
HMIS III PPE RATING	A
EXPOSURE GUIDELINES	There are no Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PEL) established for this product.

9. Physical and Chemical Properties

PURE MATERIAL OR MIXTURE	Mixture
PHYSICAL FORM	Liquid
APPEARANCE/PHYSICAL DESCRIPTION	White, blue, pink, or fluorescent liquid
ODOR	Slightly acetic
pH AS IS	8.0
BOILING POINT	Of water
FREEZING POINT	Of water
SOLUBILITY IN WATER	Dispersible
SPECIFIC GRAVITY (WATER = 1)	1.07
BULK DENSITY	8.9lb/gal
VOLATILES	54%
EVAPORATION RATE	< 1 (BuAC = 1)
VAPOR PRESSURE (mmHg)	Same as water
VAPOR DENSITY (AIR = 1)	> 1 (Air = 1)
VOLATILE ORGANIC COMPOUNDS	0.0% by weight

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10. Stability and Reactivity

STABILITY	Stable at normal temperatures and storage conditions.
INCOMPATIBILITIES	Water reactive materials
NFPA REACTIVITY HAZARD CLASS	0 = insignificant
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide, Carbon dioxide
HAZARDOUS POLYMERIZATION	Will not occur

11. Toxicological Information

ACUTE EYE TOXICITY	No information available
ACUTE SKIN TOXICITY	No information available
ACUTE INHALATION TOXICITY	Aerosol may be irritating.
ACUTE ORAL TOXICITY	No information available
CHRONIC/CARCINOGENICITY	This material does not contain 0.1% or more of any chemical listed by the International Agency of Research on Cancer (IARC), The National Toxicology Program (NTP), or regulated by the Occupational Safety and Health Administration (OSHA) as a carcinogen.

12. Ecological Information

ECOTOXICITY	No information available
ENVIRONMENTAL FATE	No information available

13. Disposal Considerations

WASTE DISPOSAL METHOD	Not a RCRA hazardous waste. Disposal of this material is not regulated under RCRA. Consult federal, state, and local regulations to ensure that this material and its containers are disposed of in compliance with all regulatory requirements
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14. Transport Information

UN NUMBER	None
DOT SHIPPING NAME	Adhesive N.O.I
DOT HAZARD CLASS	Not hazardous
DOT REPORTABLE QUANTITY	Not noted

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15. Regulatory Information

OSHA	This material is not classified as hazardous under the criteria of the US Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910.1200.
TSCA	All components are on the TSCA inventory.
SARA TITLE III SECTION 313 TOXIC CHEMICAL LIST	This product may contain the following substances at or above de minimus concentrations: NONE

CHEMICAL	CAS NO.	WT. %	EXPOSURE LIMITS

CALIFORNIA PROPOSITION 65	This product contains trace amounts of chemicals known to the State of California to cause cancer and reproductive toxicity: Formaldehyde, Acetaldehyde
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16. Other

Revision Date: November 14, 2016



Introduction

This document provides a Safety Data Sheet (SDS) for nonwovens on a voluntary basis according to EDANA recommendations (Guidelines/Instructions relating to SDS for nonwovens 20/RM7/048). The SDS is a means of transferring essential hazard information (including information on transport, handling, storage and emergency actions) from the supplier of a nonwoven product to the recipient of the product. As nonwovens are generally not hazardous, SDS for nonwovens is not legally requested but must be considered as information. It is inspired from the EC recommendation for SDS (Commission directive 93/112/EC of 10 December 1993).

1. Identification

PRODUCT IDENTIFIER	Engineered Absorbent Material
PRODUCT DESCRIPTION	White fibrous web
CHEMICAL FAMILY	Mixture of cellulose tissue, adhesive, polyester, rayon, and polyacrylate

2. Hazardous Identification

ACUTE	Inhalation may cause mild irritation of upper respiratory tract and lungs. Hot melt adhesive vapors may have an offensive odor that may cause headaches, nausea, and vomiting.
CHRONIC	Long-term (2-year) inhalation exposure by rats to sodium polyacrylate that had been micronized to a respirable particle size (less than 10 microns) produced non-specific inflammation and chronic lung injury at 0.2mg/M ³ and 0.8mg/M ³ . At 0.8mg/M ³ , tumors were seen in some animals. In the absence of chronic inflammation, tumors are not expected. There were no adverse effects of any kind at 0.05mg/M ³ .
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	May aggravate existing respiratory conditions; may also aggravate existing skin conditions due to drying effect.
ROUTES OF ENTRY	Inhalation; ingestion
EXPOSURE LIMITS	OSHA PEL: PEL for respirable fraction of nuisance dust is 5mg/M ³ . ACGIH TLV: TLV for respirable particulate, not otherwise classified, is 3mg/M ³ .

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3. Composition/Information on Ingredients

Adhesive
Sodium Polyacrylate
Cellulose Tissue
Polyester
Rayon

4. First Aid Measures

INHALATION	Remove to fresh air. If persistent irritation, coughing or breathing difficulties occur, get medical attention.
EYE CONTACT	Flush with water. If irritation persists or flushing is inadequate, get medical attention.
SKIN CONTACT	Wash skin with mild soap and water. If a rash, persistent irritation or dermatitis occur, get medical attention.
INGESTION	Get medical attention if any related symptoms occur after accidental ingestion.

5. Firefighting Measures

FLAMMABLE/EXPLOSIVE LIMITS IN AIR	LEL = Not available UEL = Not available
FIRE FIGHTING INSTRUCTIONS	Extinguish with water stream, fog, dry chemical, or other agents suitable for Class A fires.
FIRE FIGHTING EQUIPMENT	No special equipment required other than for protection from smoke inhalation.

6. Accidental Release Measures

SPILL OR LEAK PROCEDURES WASTE DISPOSAL METHODS	Recover spilled material for reuse or proper disposal. Recycle or dispose of as a non-hazardous, solid waste in accordance with local regulations and requirements.
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7. Special Precautions

HANDLING & STORAGE	Store at normal room temperature and conditions in a dry location.
OTHER PRECAUTIONS	Ensure bulk quantities are adequately secured. Handle and store away from ignition sources.

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8. Exposure Controls/Personal Protection

EYE PROTECTION	As required if dusting occurs.
SKIN PROTECTION	Gloves as may be needed to protect sensitive individuals or damaged skin.
RESPIRATORY PROTECTION	NIOSH approved for particulate as needed to avoid overexposures to product dust.
OTHER PERSONAL PROTECTION	None
VENTILATION	Local exhaust as needed to control below PEL.
WORK/HYGIENE PRACTICES	Avoid creation of dust.

9. Physical and Chemical Properties

VAPOR PRESSURE	N/A
VAPOR DENSITY	N/A
SPECIFIC GRAVITY (WATER = 1)	< 1
BOILING POINT	N/A
pH	Less than 7
POLYMERIZATION	Does not occur
STABILITY	Product is stable.
INCOMPATIBILITY	Avoid strong oxidizing agents and ignition sources.

10. Stability and Reactivity

CONDITIONS TO AVOID	Under thermal decomposition flammable and toxic fumes can be generated.
	Above 175°C may be released: toxic and flammable gases, carbon monoxide. The generation of cleavage and oxidation products is subject to fire conditions. Non-burned residues and contaminated water after fire fighting should be disposed of in compliance with official regulations.
	Molten material should not be allowed to be in contact with the skin to which it can cause burns.

11. Toxicological Information

TARGET ORGANS	Lungs from dust
CARCINOGENICITY	Not an OSHA, IARC, or NTP carcinogen
MUTAGENICITY	None known
TERATOGENICITY	N/A
SENSITIZER	N/A
IRRITANT	Exposure to product dust may cause respiratory irritation.

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12. Ecological Information

For transportation, storage, normal use, no toxicological effect known.

13. Disposal Considerations

As non hazardous solid waste, nonwovens can be disposed of, depending on local legislation, through:

- Recycling
- Incineration
- Landfill

14. Transport Information

15. Regulatory Information

CERCLA

This product is not listed as a hazardous substance under 40 CFR 302.4.

SARA TITLE III

311 / 312 Hazardous Categories: None

TSCA

313 Reportable Ingredients: None

OTHER

This product or components of this product are listed on the TSCA Inventory.

CALIFORNIA PROPOSITION 65

We recommend that you contact local authorities to determine if there may be other local reporting requirements.

Some chemical compounds listed by the State of California under Proposition 65 may naturally be present in this product. Reliable Concrete Accessories is unaware of any universal analytical scheme that enables us to analyze this product for the presence or absence of all chemical compounds listed by the State of California. No testing has been done for Proposition 65 listed chemical compounds.

16. Other

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1. Identification

PRODUCT NAME	Polyethylene Film Products
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2. Hazardous Identification

INHALATION	Polyethylene film product does not meet or exceed requirements to be classified as a hazardous chemical.
INGESTION	Polyethylene film product does not meet or exceed requirements to be classified as a hazardous chemical.
DERMAL/EYE	Polyethylene film product does not meet or exceed requirements to be classified as a hazardous chemical.

3. Composition/Information on Ingredients

BOILING POINT	N/A
MELTING POINT	Crystalline, 219-239°F (ASTM D 2117)
VAPOR PRESSURE	N/A
SPECIFIC GRAVITY	0.910-0.970 (ASTM D 792)
VAPOR DENSITY	N/A
SOLUBILITY IN WATER	Insoluble
APPEARANCE AND ODOR	Odorless film

4. First Aid Measures

DERMAL/EYE	Eye irritation - flush with large amounts of water for at least 15 minutes. Seek immediate medical attention. If molten material contacts the skin, immediately flush the area with large amounts of water. Do not attempt to peel polymer from skin.
INGESTION	Seek immediate medical attention. Do not induce vomiting unless directed by medical professional. Seek immediate medical attention.

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5. Fire-fighting Measures

FLASH POINT	N/A
AUTO-IGNITION TEMPERATURE	> 600°F
FLAMMABLE LIMITS	N/A
EXTINGUISHING MEDIA	Water spray, dry chemical, foam, or carbon dioxide
UNUSUAL FIRE AND EXPLOSION HAZARDS	Do not flush down sewers or other drainage systems. Dust particles may form an explosive mixture with air. Dust may accumulate hazardous static charge.
SPECIAL FIRE FIGHTING PROCEDURES	If possible, water should be applied as a spray from a fogging nozzle since polyethylene is a surface burning material. The application of high velocity water may spread the burning surface layer. Exposed firefighters should wear self-contained breathing apparatus with full-face mask and full protective clothing.
COMBUSTION PRODUCTS	Combustion products include carbon dioxide, carbon monoxide, water vapor, and small amounts of other organic vapors. Inhalation of these decomposition products may be hazardous.

6. Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	All recovered material should be packaged, labeled, transported, and disposed of or reclaimed in conformance with applicable laws and regulations. Reclaim where possible. Material may be slippery and create a fall hazard. Dissipate static electricity during handling by use of proper grounding and bonding methods.
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7. Handling and Storage

PRECAUTIONS TO BE TAKEN IN STORAGE AND HANDLING CAUTION	Store in a dry, well-ventilated area. Do not store near heat, flame, nor strong oxidants. Polyethylene film products may accumulate static. Suffocation hazard if film covers face. Keep away from children!
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8. Exposure Controls/Personal Protection

RESPIRATORY PROTECTION	Where exposure to fumes can exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment.
PROTECTIVE CLOTHING	Wear heat protective gloves and clothing if there is potential for contact with heated material.
EYE PROTECTION	Wear safety glasses if there is potential for contact with heated material.
CONTROL MEASURES	Provide adequate mechanical ventilation where polyethylene film is at elevated temperatures.

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9. Physical and Chemical Properties

APPEARANCE	Flexible film or bag (color may vary)
ODOR	Faint, mild hydrocarbon odor
FLASHPOINT	N/A
AUTOIGNITION TEMPERATURE	>300 °C
DECOMPOSITION TEMPERATURE	>300 °C
BOILING POINT	N/A
MELTING POINT	90-140 °C
FREEZING POINT	N/A
VAPOR PRESSURE	N/A
VAPOR DENSITY (AIR=1)	N/A
% SOLUBILITY IN WATER	Insoluble
FLAMMABILITY	Not classified; burns but does not easily ignite
LOWER FLAMMABILITY LIMIT	No data available
UPPER FLAMMABILITY LIMIT	No data available
RELATIVE DENSITY	.910 - .970 (water=1)
EVAPORATION RATE (WATER=1)	N/A
VISCOSITY	N/A
pH	N/A
PARTITION COEFFICIENT: N-OCTANOL/WATER	N/A

10. Stability and Reactivity

STABILITY	Stable
HAZARDOUS POLYMERIZATION	Not likely
CONDITIONS AND MATERIALS TO AVOID	Avoid contact with strong oxidizers, excessive heat, sparks, or open flame. Fluorine gas, diethyl ether, methylene chloride, ethylene chloride. Polyethylene degrades after prolonged contact with most aromatic hydrocarbons and most halogenated hydrocarbons.
HAZARDOUS DECOMPOSITION PRODUCTS	May include carbon monoxide, other hydrocarbons and hydrocarbon oxidation products, organic vapors, aldehydes, and alcohols.

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11. Toxicological Information

ROUTES OF EXPOSURE	Eyes, inhalation, or skin. Under normal conditions of use, this product presents no likely route of exposure. However, if machined, processed, or heated, possible exposure could occur.
SYMPTOMS	
PHYSICAL CONTACT	Heated material may cause thermal burns.
CHEMICAL CONTACT	Inhalation of process fumes and vapors may cause soreness in nose and throat; may cause coughing.
TOXICOLOGICAL	This material is considered essentially inert and non-toxic. It has no known acute health effects.
DELAYED/IMMEDIATE EFFECTS	Coughing, soreness of nose/throat, possible redness of skin, eyes, or throat.
CHRONIC EFFECTS	Product has minimal chronic effect; no known or reported reproductive or genetic effects.
ACUTE TOXICITY	Not classified
CHRONIC TOXICITY	Not classified
CARCINOGENICITY	Not listed by IARC, NTP, OSHA, or EPA

12. Ecological Information

ECOTOXICITY	Polyethylene film is essentially biologically inert and considered non-toxic.
PERSISTENCE/DEGRADABILITY	This product is not expected to be readily biodegradable.
BIOACCUMULATION	This product is not expected to bioaccumulate.
MOBILITY	This product has not been found to migrate through soils.
ADDITIONAL ECOLOGICAL INFORMATION	If released into waterways, most polyethylene film floats and presents possible hazard if ingested by birds and aquatic life. Product should be recovered following spills.

13. Disposal Considerations

All recovered material should be packaged, labeled, transported, and disposed of or reclaimed in conformance with applicable laws and regulations. Reclaim/recycle where possible. Preferred disposal methods are a.) clean and reuse, b.) recover/resale through recyclers/brokers, c.) incinerate with heat recovery, d.) proper landfill disposal.

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14. Transport Information

NOT REGULATED for transport.

15. Regulatory Information

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

16. Other Information

Some polymeric breakdown and decomposition may occur at points of operation where film is at elevated temperatures. Examination of volatiles and fumes from hot polyolefins has been shown to consist of many components, including monomers used to make resins, pyrolysis and oxidation products, and volatiles from anti-oxidant and slip formulations.

In addition, by-products related to pigments or other additives may also be present. Of the numerous pyrolytic and oxidative degradation products, carbon monoxide and acrolein appear to pose the highest toxicity potential based on acute inhalation studies on animals exposed to high concentrations of fumes from hot polyolefins. Carbon monoxide and acrolein are common oxidative products of many natural and synthetic materials such as tobacco smoke, paper and wood smoke, and fumes from cooking fats and oils.

The specific potential for release and the amount of these products that are present will depend upon the user's operating conditions and ventilating procedures, and should be evaluated by a qualified health specialist.

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The information contained in this Safety Data Sheet (SDS) has been developed by the company, to the best of its knowledge, on the express request of its customers in relation to this specific material. Therefore, the company does not assume any liability with respect to the correctness and/or completeness of the information provided. The customer in particular shall not be released from his duty to check all relevant safety properties of the delivered materials and to refer to the official texts for full information on the local obligations.

Our service engineers are available to help purchasers obtain best results from our product, and recommendations are based on test and information believed to be reliable. However, we have no control under which our products are transported to, handled, or used by purchasers and, in any event, all recommendations and sales are made on condition that we will not be held liable for any damages resulting from their use. No representative of ours has any authority to waive or change this provision.

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