SAFETY DATA SHEET

Polyethylene/Polyester Nonwoven

Revision Date: 07/26/2022

SECTION 1: IDENTIFICATION

PRODUCT NAME/CODE:	HDK Styles: 127, 137, 221, 222, 224, 231, 236, 237, 245, 300, 301, 302, 305, 308, 309, 314, 315, 316, 320, 325, 326, 329, 336, 338, 340, 342, 345, 346, 347, 348, 349, 354, 355, 356, 367, 371, 374, 375, 381, 382, 383, 3000, 3005, 3006, 301A, 301B, 301G, 302A, 302S, 354LR, 20020
MANUFACTURER:	HDK Industries
ADDRESS:	100 Industrial Park Drive, Rogersville, TN 37857
PRODUCT INFORMATION:	Telephone: +1-423-272-7119
OTHER INFORMATION:	OSHA Hazard Communication Standard (29 CFR 1910.1200) requirements for Material Safety Data Sheets do not apply to this product. This product is excluded as an article. Information on potential hazards associated with product fabrication and/or installation are discussed in this datasheet.

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview:

This product has no known adverse effect on human health. Additives in this product do not present a respiration hazard unless the product is ground to a powder of respirable size and the dust is inhaled. All dusts are potentially injurious to the respiratory tract if respirable particles are generated and inhaled. Dust may form explosive mixture in air.

Other Hazards:

This product may contain small amounts of titanium dioxide. Titanium dioxide is not water soluble and is encapsulated. It is not extracted or released in normal processing. Therefore, titanium dioxide in this material does not present a hazard in normal handling, processing use, and disposal. Under United States Regulations (29 CFR 1910.1200(c) - Hazard Communication Standard), the products listed above are exempt as articles under stated normal conditions of use. According to European Directive 1999/45/EC this preparation is not considered dangerous. This material is exempt from CLP/REACH obligations as an article as specified in REACH (1907/2006) and related ECHA guidance.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL DESCRIPTION:

A nonwoven material made from a proprietary blend of high-density polyethylene fibers and polyester fibers, which are made from poly(ethylene terephthalate).

Component	Synonyms	CAS-No.	Percentage
Poly(ethylene terephthalate)	PET	25038-59-9	<100%
High-density polyethylene	HDPE	9002-88-4	<100%
Titanium dioxide	TiO_2	13463-67-7	0-5%
Fiber lubricants	--	NDA	NDA

SECTION 4: FIRST AID MEASURES

No adverse health effects that would require special first aid measures are expected from exposure to this product. However, as with many materials, a very small percentage of the population may be allergic to one or more of the components that make up these products. Employees who have a history of skin disease or allergy should receive medical clearance prior to employment involving direct contact.

SECTION 5: FIREFIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS:

During burning, HDPE and PET will produce high levels of heat and may generate dense smoke.

Burning is accompanied by melting and dripping that may cause the fire to spread.

Hazard combustion products may include carbon oxides such as carbon monoxide (CO), carbon dioxide (CO_2).

FIREFIGHTING INSTRUCTIONS:

Water spray, dry chemical, foam, carbon dioxide or Halon may be used on fires involving this product.

Do not use a solid water stream as it may scatter and spread fire.

Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear when fighting fires involving this product.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Review FIRE FIGHTING MEASURES and HANDLING AND STORAGE sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

ENVIROMENTAL PRECAUTIONS:

No special environmental precautions required.

SECTION 7: HANDLING AND STORAGE

GENERAL MEASURES:

Store at temperatures below 60 ºC (140 ºF) in storage areas that are protected with a fire sprinkler system. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

MATERIALS OR CONDITIONS TO AVOID:

Avoid storing product near incompatible materials listed in STABILITY AND REACTIVITY (INCOMPATIBLE MATERIALS).

HANDLING (PERSONNEL):

Material can create slippery conditions. Take precautionary measures against static discharges. Minimize the generation and accumulation of dust.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

Exposure Limits / Guidelines						
	Result	**ACGIH**	**Canada (Ontario)**	**Canada (Quebec)**	**China**	**OSHA**
Titanium dioxide (13463-67-7)	TWA	10 mg/m^3	10 mg/m^3	10 mg/m^3 (TWAEV)	8 mg/m^3 (Total dust)	15 mg/m^3 (Total dust)

EXPOSURE CONTROLS

General industrial hygiene practice. Use dilution ventilation and adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

PERSONAL PROTECTION

Eye/face protection:
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection:
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection:
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection:
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). OSHA Permissible Exposures Limits (PELs) and exposure guidelines for Particles Not Otherwise Regulated (PNOR) should be followed.

Control of environmental exposure:
No special environmental precautions required.

OTHER INFORMATION

Molten polymer or prolonged air-drying of polymer at temperatures above 90 ºC (195 ºF) will release small quantities of acetaldehyde.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DATA:

Volatile (Wt.), %:	NDA
Solubility in Water:	NDA
Specific Gravity:	NDA
Melting Points:	**>**120 °C (248 °F)
Flash Point:	NDA
Auto-Ignition Temperature:	NDA
pH:	NDA
Water solubility:	Insoluble
VOC (Wt.):	<0.5%
Appearance:	Fibrous nonwoven
Odor:	No significant odor

SECTION 10: STABILITY AND REACTIVITY

GENERAL STABILITY CONSIDERATIONS:

Stable at recommended handling and storage conditions.

INCOMPATIBLE MATERIALS:

Incompatible with strong acid and bases and oxidizing materials.

HAZARDOUS DECOMPOSITION:

Hazard combustion products may include carbon oxides such as carbon monoxide (CO) and carbon dioxide (CO_2). Molten polymer or prolonged air drying of polymer at temperatures above 90 °C (194 °F) will release small quantities of acetaldehyde.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Contact with eyes and skin
Acute Effects:	Possible irritation of eyes and skin
Oral Toxicity:	LD50 not available
Inhalation Toxicity:	LD50 not available
Chronic Effects:	None known
Symptoms:	Irritation of eyes and skin

Acute Toxicity (oral): Low toxicity, LD50 > 2000 mg/kg
Acute Toxicity (dermal) Expected to be of low toxicity, LD50 > 2000 mg/kg
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Carcinogenic Effects: Titanium dioxide (airborne particles of respirable size) is a listed carcinogen by IARC (2B). However, titanium dioxide used in products of this material, under normal conditions, is not believed to have the potential to become of respirable size.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No known or expected ecotoxicity
Persistence and Biodegradability: Not determined
Bioaccumulative Potential: Not determined
Mobility in Soil: Not determined

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Where possible, recycling is preferred to disposal or incineration.

SECTION 14: TRANSPORT INFORMATION

Classified as “not dangerous goods” in the meaning of transport regulations under DOT(US), IMDG and IATA.

SECTION 15: REGULATORY INFORMATION

U.S. TSCA Status:

This product is considered to be an article by TSCA definition. All components are listed in the TSCA inventory.

SARA TITLE III:

Sections 302 and 304:
This product is not an Extremely Hazardous Substance subject to reporting under 40 CFR 355.
Sections 311 and 312:
NHH: Not a health hazard
NPH: Not a physical hazard
Section 313:
This product does not contain any chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40 CFR 372.

CERCLA:

This product does not contain any chemicals subject to reporting as a CERCLA Hazardous substance under 40 CFR 302.4.

RCRA:

This product is not a hazardous waste as listed in 40 CFR 261.33. It does not exhibit any of the hazardous characteristics listed in the 40 CFR 261, Subpart C.

CALIFORNIA SAFE WATER AND TOXIC ENFORCEMENT ACT OF 1986 (Proposition 65):

This product does contain chemicals known to cause cancer or reproductive toxicity under Proposition 65.

SECTION 16: OTHER INFORMATION

HMIS RATING:

Health hazard: 0 Flammability: 0 Physical hazard 0

NFPA RATING:

Health hazard: 0 Fire Hazard: 0 Reactivity hazard: 0

LIST OF ACRONYMS:

ACGIH:	**American Conference of Governmental Industrial Hygienists**
AICS:	**Australian Inventory of Chemical Substances**
AIHA WEEL:	**American National Standards Institute**
C:	**Ceiling**
CASRN:	**Chemical Abstracts Service Registry Number**
CERCLA:	**Comprehensive Emergency Response, Compensation and Liability Act**
DSL:	**Domestic Substances List (Canadian)**
EINECS:	**European Inventory of Existing Commercial Chemical Substances**
HMIS:	**Hazardous Materials Identification system**
IARC	**International Agency for Research on Cancer**
MITI:	**Ministry of International Trade and Industry (Japanese)**
N/A:	**Not Applicable**
NDA:	**No Data Available**
NDSL:	**Non-domestic Substances List (Canadian)**
NOR:	**Not Otherwise Regulated**
NTP:	**National Toxicology Program**
OSHA:	**Occupational Safety and Health Administration**
PEL:	**OSHA Permissible Exposure Limit**
RCRA:	**Resource Conservation and Recovery Act**
RQ:	**Reportable Quantity**
SARA:	**Superfund Amendment Reauthorization Act**
STEL:	**Short-Term Exposure Limit**
TLV:	**Threshold Limit Values (registered trademark of ACGIH)**
TPQ:	**Threshold Planning Quantity**
TSCA:	**Toxic Substance Control Act**
TWA:	**Time Weighted Average**
VOC:	**Volatile Organic Carbon**

DISCLAIMER OF LIABILITY:

The information provided in this Safety Data Sheet was prepared and is to be used for this product only. It is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. For these and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of, or in any way connected with the handling, storage, use, or disposal of the product.