



SAFETY DATA SHEET

U.S. Department of Labor
Occupational Safety & Health Administration

Wearcoat 44 - Part B

SECTION 1 - IDENTIFICATION

MANUFACTURER: Andek Corporation
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TELEPHONE: 1-856-786-6900
In an emergency, contact CHEMTREC 1-800- 424-9300;
Outside the United States call +1-703-527-3887
PRODUCT IDENTIFIER: Wearcoat 44 - Part B
RECOMMENDED USE: Paint Colorant

SECTION 2 – HAZARD IDENTIFICATION

HAZARD CLASSIFICATION (EFFECTS OF EXPOSURE):

Skin: Irritant (Moderate)

Eyes: Reversible

Inhalation: Low to moderate sensitivity.

Ingestion: Do Not ingest.

SIGNAL WORD: Warning

HAZARD STATEMENTS:

- Combustible liquid.
- May be harmful if swallowed.
- May be harmful in contact with skin.
- Causes mild skin irritation.
- Causes eye irritation and may cause conjunctivitis.
- Harmful if inhaled.
- May cause respiratory irritation.
- May cause drowsiness or dizziness.

PICTOGRAMS:



PRECAUTIONARY STATEMENTS:

Prevention:

- **Do Not** handle until all safety precautions have been read and understood.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
- **Do Not** spray on an open flame or other ignition source.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/light/equipment.
- Take precautionary measures against static discharge.
- **Do Not** breathe mist or spray.
- **Do Not** get in eyes, on skin, or on clothing.

- Wash thoroughly after handling.
- **Do Not** eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- **Skin:** Rinse skin with water/shower. Wash contaminated clothing before reuse.
- **Eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- **Inhalation:** Remove person to fresh air and keep comfortable for breathing.
- **Ingestion:** Rinse mouth. **Do Not** induce vomiting. Get medical advice/attention.

Storage:

- Store in a closed container.
- Store in a dry place.
- Store at temperatures not exceeding (90°F).

Disposal:

- Waste disposal should be in accordance with existing federal, state and local environmental control laws.
- Incineration is the preferred method.

SECTION 3 – COMPOSITION

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>APPROX %</u>
Titanium dioxide	13463-67-7	30-60
2-methoxy-1-methylethyl acetate	108-65-6	15
Aluminum hydroxide	21645-51-2	10
Amorphous silica	112926-00-8	5
Stoddard solvent	8052-41-3	5
Poly(oxy-1,2-ethanediyl), alpha-tridecyl-o-OH, phosphate	9046-01-9	5
Various quantities comprising blend of pigments	20344-49-4, 12239-87-1, 1333-86-4, 68412-53-3, 42612-52-2, 1332-37-2	0-30

SECTION 4 – FIRST AID MEASURES

Skin:

- Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Thoroughly wash clothing, shoes and protective equipment before reuse or discard.
- Get medical attention if irritation develops or persists.

Eyes:

- Immediately flush eyes with plenty of water for at least 30 minutes, while holding eyelids apart.
- **Do Not** allow contaminated water to contact the unaffected eye or face during irrigation of an affected eye.
- Obtain medical attention immediately.

Inhalation:

- Remove to fresh air.
- If breathing is difficult, give oxygen.
- If unconscious, evaluate the need for artificial respiration.
- Get immediate medical attention.

Ingestion:

- **Do Not** induce vomiting.
- If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.
- Get medical attention.
- If the heart has stopped or breathing has stopped, trained personnel should begin cardiopulmonary resuscitation or artificial respiration immediately.

SECTION 5 – FIRE-FIGHTING MEASURES

Flash point: 42.22 °C, 108 °F

Method: Setaflash Closed Cup

OSHA Flammability Classification: Combustible Liquid

Suitable extinguishing media: Use water spray or fog, foam, dry chemical or CO².

Specific hazards during fire fighting:

- Combustible liquid.
- Vapors can travel to a source of ignition and flash back.
- Explosive mixtures may occur at temperatures at or above the flashpoint.

Further information:

- As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.
- Containers can build up pressure if exposed to heat (fire). Cool with water spray.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Additional advice:

- Absorb spill with inert material, then place in a chemical waste container.
- After removal, flush contaminated area with water and collect for disposal.
- Clean up spills immediately.
- Remove sources of ignition and ventilate area.
- Use a respirator and other protective equipment as outlined in Section 8.
- Obey relevant local, state, provincial and federal laws and regulations.
- **Do Not** contaminate any lakes, streams, ponds, groundwater or soil.

SECTION 7 – HANDLING & STORAGE

Precautions for safe handling: Handling:

- Keep away from heat.
- Keep away from sparks, flames and other sources of ignition.
- Avoid contact with eyes, skin and clothing.
- Avoid breathing vapor or mist.
- Use with adequate ventilation.
- The need for grounding and bonding of containers in accordance with OSHA 29 CFR 1910.106 and NFPA 77 should be assessed for all product transfers.
- Follow all MSDS/label precautions even after the container is emptied because it may retain product residues.
- Wash thoroughly after handling.

Recommendations on the conditions for safe storage:

- Keep in a dry, cool place.
- Keep container closed when not in use.
- Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

Stoddard solvent (CAS-No. 8052-41-3); Low boiling point naphtha - unspecified

Control parameters:	100 ppm	Time Weighted Average (TWA):(ACGIH)
	500 ppm	PEL:(OSHA Z1)
	2900 mg/m3	
	100 ppm	Time Weighted Average (TWA)
	525 mg/m3	Permissible Exposure Limit (PEL):(US CA OEL)

Titanium dioxide (CAS-No. 13463-67-7)

10 mg/m3	Time Weighted Average (TWA):(ACGIH)
15 mg/m3	PEL:(OSHA Z1) Total dust.

Aluminum hydroxide (CAS-No. 21645-51-2)

10 mg/m3	Time Weighted Average (TWA):(ACGIH) Inhalable particulate.
3 mg/m3	Time Weighted Average (TWA):(ACGIH) Respirable.
1 mg/m3	Time Weighted Average (TWA):(ACGIH) Respirable fraction.

Synthetic Amorphous Silica, Precipitated (CAS-No. 112926-00-8)

5 mg/m3	PEL:(OSHA Z1) Respirable fraction.
15 mg/m3	PEL:(OSHA Z1) Total dust.
20millions of particles	Time Weighted Average (TWA):(Z3) per cubic foot of air
0.8 mg/m3	Time Weighted Average (TWA):(Z3)

The exposure limit is calculated from the equation, 80/(%SiO2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.

Other information

Exposure values for mineral spirits (CAS No 8052-41-3) are given as Stoddard solvent. The AIHA WEEL for propylene glycol monomethyl ether acetate is 50 ppm TWA.

Engineering controls: Use explosion-proof ventilation equipment.

Individual protection measures:

Inhalation protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Eye protection: Chemical resistant goggles must be worn.

Skin and body protections: A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Other hygienic practices and protective equipment: Use impermeable gloves.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Medium viscosity liquid with some thixotropy

Physical state: Liquid

Color: From white or pastel colors to black or deep tone colors

Odor: Sweet ether-like odor

Odor threshold: None established

pH: None established

Melting point/freezing point: None established

Initial boiling point and boiling range: 143°C

Flash point: 108°F

Evaporation rate: 0.2 (Butyl Acetate =1)

Flammability (solid, gas): Flammable

Upper/lower flammability or explosive limits: 5.7% / 0.8%

Vapor pressure: 0.8 kPa (6mmHg) at 20°C (68°F)

Vapor density: 4 (air = 1)

Relative density: 0.8 to 1.2 kg/Lt

Solubility: Insoluble in water

Partition coefficient: n-octanol/water: N/A

Auto-ignition temperature: 471°C

Decomposition temperature: None established

Viscosity: 85 to 105 Krebs units (KR) at 25°C

SECTION 10 – STABILITY AND REACTIVITY

Incompatibility (materials to avoid): Oxidizing substances

Conditions to avoid: High temperatures and sources of ignition

SECTION 11 – TOXICOLOGICAL INFORMATION

Numerical measures of toxicity:

CHEMICAL NAME	Oral LD50 (Rat)	Dermal LD50 (Rabbit)	Inhalation LC50 (Rat)
Titanium dioxide	>24000 mg/kg	>10000 mg/kg	>6820 mg/m ³ /4h
2-methoxy-1-methylethyl acetate	8532 mg/kg	>19000 mg/kg	>4345 ppm, 6 hr., vapor
Amorphous silica	>31600 mg/kg	>2000 mg/kg	
Stoddard solvent	>5000 mg/kg	>3000 mg/kg	>5500 mg/m ³ /4h
Poly(oxy-1,2-ethanediy),alpha-tridecyl-o-OH,phosphate	>2000 mg/kg	N/A	N/A

Symptoms associated with exposure: High concentrations of titanium dioxide dust caused microscopic lung tumors in rats in lifetime inhalation studies. However, DuPont, the primary US manufacturer, based on a review of the test data and based on an epidemiological study of employees, concludes that titanium dioxide pigment will not cause chronic respiratory disease in humans at concentrations experienced in the workplace.

Chemical listed in NTP or IARC?

- Titanium dioxide contains a component which is classified as an IARC 2B carcinogen (possibly carcinogenic to humans).
- 2-methoxy-1-methylethyl acetate High vapor concentrations (3000 ppm) of propylene glycol monomethyl ether acetate caused upper respiratory irritation and liver and kidney effects in subchronic animal testing. The relevance of these results to humans is not known

SECTION 12 – ECOLOGICAL INFORMATION

Data from toxicity test (aquatic and/or terrestrial organism where available): 5 columns

CHEMICAL NAME	Fish - LC50	Crustacea (Aquatic Invertebrates) EC50
Ethylbenzene	7.5 - 11 mg/l (Fathead minnow - Pimephales promelas) 96 h	137 - 4.4 mg/l (Water flea - Daphnia magna) 48 h
Titanium Dioxide	> 1000 mg/l (Mummichog - Fundulus heteroclitus) 96 h	> 1000 mg/l (Water flea - Daphnia magna) 48 h
Xylene	7.711 - 9.591 mg/l, (Bluegill - Lepomis macrochirus) 96 h	N/A

Estimates for product may be based on additional component data not shown.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal of waste:

- Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
- Incinerate the material under controlled conditions in an approved incinerator.
- **Do not** incinerate sealed containers.
- **Do not** allow this material to drain into sewers/water supplies.
- If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

Disposal of contaminated packaging:

- Empty containers should be taken to an approved waste handling site for recycling or disposal.
- Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Language discouraging sewage disposal:

- Dispose of in accordance with local regulations.
- Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (See disposal instructions).

SECTION 14 – TRANSPORT INFORMATION

UN #	1263
UN PROPER SHIPPING NAME:	Paint
HAZARD CLASS:	3
PACKING GROUP:	III
ENVIRONMENTAL HAZARDS:	N/A
GUIDANCE ON TRANSPORT IN BULK	N/A

Transport labels required: Class 3

SECTION 15 – REGULATORY INFORMATION

US Federal Regulation:

SARA 311/312 Hazard Categories

CHEMICAL NAME	CWA reportable quantities	CWA Toxic Pollutants	CWA Priority Pollutants	CWA Hazardous Substances	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity RQ
Xylene	N/A	Listed	N/A	Chronic Health Hazard	Acute	N/A	N/A
Ethylbenzene	N/A	Listed	N/A	Chronic Health Hazard	Acute	N/A	N/A

US State Right to Know Regulations: New Jersey, Massachusetts, Pennsylvania, Rhode Island

CHEMICAL NAME	CAS #
Ethylbenzene	100-41-4
Xylene	1330-20-7
Titanium Dioxide	13463-67-7

CA Prop 65

CHEMICAL NAME	CAS #
Ethylbenzene	100-41-4
Silica (Crystalline Quartz)	14808-6-7
Titanium Dioxide	13463-67-7

SECTION 16 – OTHER INFORMATION (HMIS RATING)

Health	2
Flammability	2
Physical Hazard	1
Personal Protection	H

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