



## Material Safety Data Sheet



### KYDEX® Sheet Compound

Pellets or Regrind - All Grades  
MSDS - 103

#### Section 1: Chemical Product and Company Identification

**Product/Chemical Name:** KYDEX sheet (pellets or regrind), acrylic/PVC alloy  
**Other Designations:** Mixture of polyvinyl chloride, chlorinated polyvinyl chloride, acrylic polymer, processing aids, impact modifiers, heat stabilizers, and lubricants  
**General Use:** Injection molding and extrusion  
**Manufacturer:** Kleerdex Company, LLC, 6685 Low Street, Bloomsburg, PA 17815, PHONE (570)387-6997, FAX (570)387-8722  
**Emergency Phone Numbers:** (570) 387-6997. For transportation emergencies call CHEMTREC at 800-424-9300

#### Section 2: Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt
Polyvinyl chloride, ethene, chloro-homopolymer	9002-86-2	0-99
Chlorinated polyvinyl chloride	68648-82-8	0-99
Mixture of processing aids, impact modifiers, heat stabilizers, lubricants and pigments	TRADE SECRET	2-50
Organotin	TRADE SECRET	0.1-3

#### Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Polyvinyl chloride	none estab.	none estab.	Particles Not Otherwise Classified: 10 mg/m <sup>3</sup>	none estab.
Chlorinated polyvinyl chloride	none estab.	none estab.	Particles Not Otherwise Classified: 10 mg/m <sup>3</sup>	none estab.
Organotin	0.1 mg/m <sup>3</sup>	none estab.	0.1 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>
Titanium dioxide	5 mg/m <sup>3</sup>	none estab.	10 mg/m <sup>3</sup>	none estab.

#### Kleerdex Company, LLC

ISO 9001 and ISO 14001 Certified  
Customer Service  
6685 Low St, Bloomsburg, PA 17815 USA  
Phone: 800 325 3133, +1 570 389 5810  
Outside the US: +1 570 389 5814  
Fax: 800 452 0155, +1 570 387 7786  
Email: info@kleerdex.com

Technical Service  
Phone: 800 682 8758 ext. 581  
Fax: +1 570 387 8722  
Outside the US: +1 570 387 6997 ext 581

[www.kydex.com](http://www.kydex.com)



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Dallas, Texas (Corporate Offices)  
Houston, Texas  
Brandon, Mississippi

phone 800-782-1836 / 214-239-3870  
phone 800-282-4388 / 713-979-0660  
phone 800-457-8623 / 601-825-7919

fax 214-239-3871  
fax 713-979-0664  
fax 601-825-7109

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#### Section 3: Hazards Identification

HMIS	
H	1
F	1
R	0

PPE†  
†Sec. 8

#### Emergency Overview:

KYDEX sheet dry blend, a powder, is in general a non-hazardous polymeric material and does not present any serious hazards during its normal handling and use. As with any material; however, there are guidelines that should be followed in an emergency situation. If dust or vapors are inhaled, move to a well ventilated area. If skin or eyes are irritated, flush with water for 15 minutes.

#### Potential Health Effects:

**Primary Entry Routes:** Inhalation, skin/eyes, ingestion (vapors if burned)

**Target Organs:** Respiratory system, eyes

#### Acute Effects

**Inhalation:** Prolonged inhalation of dust may cause nose, throat and upper respiratory tract irritation. Excessive heating may lead to decomposition with the release of hydrogen chloride that could cause irritation to upper respiratory tract.

**Eye:** Excessive heating may lead to decomposition with the release of hydrogen chloride that could cause irritation of eyes.

**Skin:** Not a likely route of exposure.

**Ingestion:** Not a likely route of exposure.

**Carcinogenicity:** IARC, NTP, and OSHA do not list KYDEX sheet as a carcinogen.

**Medical Conditions Aggravated by Long-Term Exposure:** Not known.

**Chronic Effects:** Not known.

#### Section 4: First Aid Measures

**Inhalation:** If irritation occurs from vapors due to excessive heating, move to a well-ventilated area, if irritation persists, consult a physician.

**Eye Contact:** If irritation occurs from vapors due to excessive heating, flush eyes with large amounts of water for at least 15 minutes; if irritation persists, consult a physician.

**Skin Contact:** Not a likely route of exposure.

**Ingestion:** Not a likely route of exposure.

**Note to Physicians:** None.

**Special Precautions/Procedures:** None.

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Customer Service  
6685 Lott St, Bloomsburg, PA 17815 USA  
Phone: 800-325-3133, +1-570-389-5810  
Outside the US: +1-570-389-5814  
Fax: 800-452-0155, +1-570-387-7786  
Email: info@kleerdex.com

Technical Service  
Phone: 800-682-8758 ext. 581  
Fax: +1-570-387-8722  
Outside the US: +1-570-387-6997 ext. 581

www.kydex.com

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#### Section 5: Fire-Fighting Measures



**Flash Point:** 390°C (735°F)

**Autoignition Temperature:** 454°C (849°F)

**LEL:** Not available

**UEL:** Not available

**Flammability Classification:** Not flammable

**Extinguishing Media:** Water, carbon dioxide, dry chemical or foam

**Unusual Fire or Explosion Hazards:** Polyvinyl chloride-based material will NOT continue to burn after ignition without an external heat source. When burning, or at temperatures above 425°F, slow evolution of hydrogen chloride could occur.

**Hazardous Combustion Products:** Hydrogen chloride, carbon monoxide, carbon dioxide

**NOTE:** Hydrogen chloride is detectable by its sharp pungent odor in concentrations as low as 1 ppm. Low concentrations (below 50 ppm) are not harmful in short-term exposures but do provide excellent warning properties by causing coughing or irritation. Because the protective response is so strong, humans rarely submit to damaging concentrations -- instead there is an unmistakable urge to leave the area. Repeated or prolonged exposure to high concentrations can cause eye and respiratory damage.

**Fire-Fighting Instructions:** Keep unauthorized personnel removed.

**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

#### Section 6: Accidental Release Measures

#### Spill/Leak Procedures

**Small Spills:** If pellets or regrind is spilled, vacuum or sweep up and place in containers for recovery or disposal.

**Large Spills:** If pellets or regrind is spilled, vacuum or sweep up and place in containers for recovery or disposal.

**Containment:** Not applicable

**Cleanup:** Vacuum or sweep up and place in containers for recovery or disposal.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

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#### Section 7: Handling and Storage

**Handling Precautions:** Dust levels should be kept below respiratory dust concentrations of 5 mg/m<sup>3</sup>. Take proper care when moving, loading, or unloading. Electrostatic charge may build up during handling; grounding of equipment is recommended.  
**Storage Requirements:** Store in a dry area below 377°C (100°F)  
**Regulatory Requirements:** KYDEX sheets not regulated.

#### Section 8: Accidental Release Measures

**Engineering Controls:** Maintain levels of airborne contaminants below exposure levels by controlling general and local room ventilation. Ground equipment to prevent build up of electrostatic charge.  
**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.  
**Administrative Controls:** None  
**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.  
**Protective Clothing/Equipment:** Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.  
**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.  
**Contaminated Equipment:** Not applicable

#### Section 9: Physical and Chemical Properties

**Physical State:** Solid  
**Appearance and Odor:** Opaque plastic pellets; slight odor  
**Odor Threshold:** Not available  
**Vapor Pressure:** Not available  
**Vapor Density (Air=1):** Not available  
**Formula Weight:** Not available (Mix)  
**Density:** 1.3-1.4 g/cc  
**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 1.3-1.4  
**pH:** Not available

**Water Solubility:** Negligible  
**Other Solubilities:** Tetrahydrofuran (THF)  
**Boiling Point:** Not available  
**Freezing/Melting Point:** Not available  
**Viscosity:** Not available (solid)  
**Refractive Index:** Not available (opaque)  
**Surface Tension:** Not available  
**% Volatile:** Not available  
**Evaporation Rate:** Not available

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#### Section 10: Stability and Reactivity

**Stability:** KYDEX sheet pellets are stable at room temperature under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization WILL NOT occur.

**Chemical Incompatibilities:** Polyvinyl chloride-based materials should not come in contact with acetal or acetal polymers in elevated temperature processing equipment. The two materials are not compatible and will react in violent decomposition when mixed under conditions of heat and pressure.

**Conditions to Avoid:** Temperatures of 218 3°C (425°F) and above.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, hydrogen chloride.

#### Section 11: Toxicological Information

##### Toxicity Data:\*

**Eye Effects:** Possible irritation due to dust particles.

**Acute Inhalation Effects:** Polyvinyl chloride (PVC): Rats and guinea pigs exposed continuously to PVC dust for 24 hrs/day for periods varying from 2-7 months were found to have extensive lung damage. In rats, inhalation of fumes from heated PVC produced interstitial edema as well as focal, bronchial and intraveolar hemorrhage.

**Acute Oral Effects:** Not known.

**Chronic Effects:** Not known.

**Carcinogenicity:** KYDEX sheet is not a carcinogen.

**Mutagenicity:** Not known.

**Teratogenicity:** Not known.

\* See NIOSH and RTECS for additional toxicity data.

#### Section 12: Ecological Information

No ecological data available.

#### Section 13: Disposal Considerations

**Disposal:** Wastes can be landfilled. Dispose of in accordance with federal, state, and local regulations.

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**Section 14: Transport Information**  
DOT Transportation Data (49 CFR 172.101):

**Shipping Name:** KYDEX sheet  
**Shipping Symbols:** None  
**Hazard Class:** Not regulated  
**ID No.:** Not applicable  
**Packing Group:** Not applicable  
**Label:** Not applicable  
**Special Provisions (172.102):** None

**Packaging Authorizations:** None  
**Quantity Limitations:** None  
**Vessel Stowage Requirements:** None

**Section 15: Regulatory Information**

**EPA Regulations:**  
RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)  
CERCLA Hazardous Substance (40 CFR 302.4) unlisted specific per RCRA, Sec. 3001, CWA, Sec. 311 (b)(4), CWA, Sec. 307(a), CAA, Sec. 112  
CERCLA Reportable Quantity: None  
SARA /Title III Hazard Categories  
Immediate (Acute) Health: NO  
Delayed (Chronic) Health: NO  
Fire Hazard: NO  
Reactive Hazard: NO  
Sudden Release of Pressure: NO

**OSHA Regulations:**  
Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A) Not listed  
OSHA Standard (29 CFR 1910.1200) requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training and access to written records. We request that you, and it is your legal duty to make all information in the Material Safety Data Sheets available to your employees.

**State Regulations:**  
New Jersey Workplace Hazardous Substance List. Chlorinated polyvinyl chloride, organotin compound, modifier and lubricant, titanium dioxide  
Pennsylvania Right to Know Act. Chlorinated polyvinyl chloride, organotin compound, modifier, lubricant

**Section 16: Other Information**

**Prepared By:** Carole Reed  
**Revision Notes:** None  
**Additional Hazard Rating Systems:** None

**Disclaimer:** These suggestions and data are based on information that we believe to be reliable and accurate at the time of publication. They are offered in good faith, but without guarantee, as the conditions and methods of use of our products are beyond our control.

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6685 Low St, Bloomsburg, PA 17815 USA  
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Fax: 800.452.0155, +1.570.389.7786  
Email: info@kleardex.com

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