

## 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, lubricants, and pigments  
**General Use:** Thermoforming  
**Manufacturer:** KYDEX, 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 Name	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Polyvinyl chloride; ethene, chloro-homopolymer	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 Oxide	5 mg/m <sup>3</sup>	none estab.	10 mg/m <sup>3</sup>	none estab.

#### KYDEX, LLC

ISO 9001 and 14001 Certified

#### Customer Service

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

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### Section 3: Hazards Identification

#### Emergency Overview:

KYDEX® 6200 sheet pellets are, 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, get to well ventilated area. If skin or eyes are irritated, flush with water for 15 minutes

HMIS	
H	1
F	1
R	0
PPE†	
†Sec. 8	

#### 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 from cutting or machining the plastic sheet may cause nose, throat and upper respiratory tract irritation. Excessive heating may lead to decomposition with the release of hydrogen chloride which could cause irritation to upper respiratory tract.

**Eye:** Excessive heating may lead to decomposition with the release of hydrogen chloride which 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 dust or vapors from excessive heating, move to a well-ventilated area; if irritation persists, consult a physician.

**Eye Contact:** If irritation occurs from dust or vapors from 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

**Notes to Physician:** None

**Special Precautions/Procedures:** None

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### Section 5: Fire-Fighting Measures



**Flash Point:** 390°C (735°F)

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

**Explosive Limits:**

LEL: Not available

UEL: Not available

**Flammability Classification:** Not flammable

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

**Unusual Fire or Exposure 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 (< 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:** Not applicable. Sheet will not spill or leak; it is solid; however, dust from machining the product may leak or spill.

**Small Spills:** If dust or powder from cutting and machining the plastic sheet is spilled, vacuum or sweep up and place in containers for recovery or disposal.

**Large Spills:** If dust or powder from cutting and machining the plastic sheet 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.

### 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.

**Storage Requirements:** Store in a dry area below 80°C (176°F)

**Regulatory Requirements:** None

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### Section 8: Exposure Controls / Personal Protection

**Engineering Controls:** Maintain levels of airborne contaminants below exposure levels by controlling general and local room ventilation in areas where machining, cutting or thermoforming occurs. 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, 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 Point:** Not available

**Viscosity:** Not available (solid)

**Refractive Index:** Not available (opaque)

**Surface Tension:** Not available

**% Volatile:** Not available

**Evaporation Rate:** Not available

### 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:** Avoid temperatures of 218.3°C (425°F) and above.

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

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### Section 11: Toxicological Information

#### Toxicity Data:\*

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

**Accute 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.

**Accute Oral Effects:** Not known

**Chronic Effects:** Not known

**Carcinogenicity:** KYDEX® products are 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

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

### 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

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