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## 1. IDENTIFICATION

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<b>Product Name</b>	VPC-7373
<b>Recommended use</b>	A proprietary, high-performance polymer designed for suspended solids removal in flow back and produced water clarification applications. It is architecturally modified on the molecular level, providing unique solution properties and performance characteristics
<b>Supplier</b>	Valudor Products, LLC 179 Calle Magdalena Suite 100 Encinitas CA 92024 (760)-635-8500
<b>Emergency Telephone</b>	800-535-5053 (Infotrac)

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## 2. HAZARD IDENTIFICATION

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### Classification

This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

### Label Elements

Not a hazardous substance or mixture

**Hazards not other classified**      None

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

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<b><u>Substance</u></b>	
<b>Chemical Name</b>	Polyacrylamide
<b>Formula</b>	(C <sub>3</sub> H <sub>5</sub> NO) <sub>n</sub>
<b>Molecular weight</b>	71.07 g/mol
<b>Cas No.</b>	9003-05-8
<b>Concentration</b>	>= 89 %

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## 4. FIRST-AID MEASURES

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### First Aid Measures

**Eye Contact**      Immediately rinse with plenty of water. Remove contact lenses, if present and easy to do so. Keep eye wide open while rinsing. Continue rinsing for 15 minutes. Call a doctor/

<b>Skin Contact</b>	physician if irritation persists Wash off immediately with plenty of water. Remove all contaminated clothes and shoes. If skin irritation persists, call a doctor/physician
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician

**Most important symptoms/effects, acute and delayed**

<b>Symptoms</b>	No information available
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**5. FIRE-FIGHTING MEASURES**

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<b><u>Suitable extinguishing Media</u></b>	Water spray, Dry chemical, Carbon dioxide or appropriate foam
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**Specific Hazards Arising from the chemical**

Hazardous combustion products	Thermal decomposition can lead to the release of irritation or toxic gases and vapors; including and not limited to: Carbon oxides, Nitrogen oxides
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**Protective equipment and precautions for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment, and emergency procedures**

<b>Personal precautions</b>	Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use personal protection recommended in Section 8. Ensure adequate ventilation.
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**Methods and materials for containment and cleanup**

<b>Methods for clean-up</b>	Sweep or vacuum up and place in an appropriate closed container. Keep unauthorized personnel away. Avoid generating dust. Clean spill site with water after material pickup is complete
<b>Environmental Precautions</b>	Prevent entry into waterways or sewers

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**7. HANDLING AND STORAGE**

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**Precautions for safe handling**

Do not breathe dust. Avoid dust formation. Avoid contact with eyes, skin and clothing. Use personal protective equipment recommended in section 8. Remove and wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

**Conditions for safe storage, including any incompatibilities**

Store in a cool/low-temperature, well-ventilated, dry place. Keep containers closed and labeled when not in use.

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## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the regional specific regulatory bodies

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material, applicable exposure limits, job activities and other substances in the work place when designing controls and selecting personal protective equipment.

**Personal Protective Equipment**

<b>Eye/face protection</b>	Chemical safety goggles
<b>Skin protection</b>	Choose the appropriate protective clothing and gloves based on the tasks being performed to avoid exposure to skin. Wear protective gloves
<b>Respiratory protection</b>	Not required under normal circumstances. If exposure limits are exceeded or if irritation or other symptoms are experienced use a NIOSH/MSHA approved respirator
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product.

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## **9. PHYSICAL and CHEMICAL PROPERTIES**

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<b>Appearance</b>	White granule
<b>Physical state</b>	Solid
<b>Odor</b>	Weak odor
<b>Odor threshold</b>	No information available
<b>pH</b>	8.5 (50g/L)
<b>Melting point / freezing point</b>	> 230 C / 446 F
<b>Boiling point / Boiling range</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Flammability</b>	No information available
<b>Flammability or explosive limits</b>	
<b>Upper</b>	No information available
<b>Lower</b>	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Specific Gravity</b>	No information available
<b>Solubility in water</b>	Slightly soluble in water
<b>Partition coefficient</b>	No information available
<b>Auto-ignition temperature</b>	No information available

**Decomposition temperature** No information available  
**Viscosity** No information available

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## 10. STABILITY AND REACTIVITY

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**Reactivity** None known under normal conditions.  
**Chemical stability** Stable under ordinary conditions of use and storage.  
**Possibility of hazardous reactions** None under normal processing.  
**Conditions to avoid** Avoid dust formation.  
**Incompatible materials** Strong oxidizing agents.  
**Hazardous decomposition products** Hazardous combustion can lead to the release of irritating gases and vapors.

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## 11. TOXICOLOGICAL INFORMATION

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### Information on likely routes of exposure

**Skin contact** May cause skin irritation  
**Eye contact** May cause eye irritation  
**Inhalation** May cause irritation of respiratory tract  
**Ingestion** May be harmful if swallowed

### Symptoms related to the physical chemical and toxicological characteristics

No information available

### Delayed and immediate effects and also chronic effects form short and long-term exposure

**Skin damage/irritation** Not classified  
**Eye damage/irritation** Not classified  
**Sensitization** Not classified  
**Mutagenic effects** Not classified  
**Carcinogenicity** Not classified  
**Reproductive toxicity** Not classified  
**STOT – single exposure** Not classified  
**STOT – repeated exposure** Not classified  
**Aspiration hazard** Not classified

### Acute Toxicity

#### Component information

Component	Cas-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Polyacrylamide	9003-05-8	Rat: > 1000 mg/kg Mouse: 12950 mg/kg		

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity** Should not be released to environment

<b><u>Persistence and degradability</u></b>	No information available
<b><u>Bioaccumulative potential</u></b>	No information available
<b><u>Mobility in soil</u></b>	No information available
<b><u>Other adverse effects</u></b>	No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** Processing, use or contamination of this product may occur during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated packaging in accordance with local regulations.

### 14. TRANSPORT INFORMATION

<b>DOT</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG</b>	Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

<b>TSCA</b>	Listed
<b>DSL</b>	Listed

**US Federal Regulations**

**TSCA section 12(b) Export Notification**

Not regulated

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).

Not applicable

**SARA 311/312 Hazard Categorization**

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Pressure	No
Reactivity	No

**CERCLA/SARA 302 & 304**

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Not applicable

**CWA (Clean Water Act)**

Not applicable

**US State Regulations**

**California Proposition 65**

This product does not contain any proposition 65 chemicals

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**16. OTHER INFORMATION**

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**NFPA Ratings**            Health: 1                            Flammability: 0                            Reactivity: 0

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Revision Information    Creation

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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