



# Material Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

### PARALOID™ KM-X100 PRO Emulsion

Revision Date: 04/10/2012

**Supplier** ROHM AND HAAS CHEMICALS LLC  
A Subsidiary of The Dow Chemical Company  
100 INDEPENDENCE MALL WEST  
PHILADELPHIA, PA 19106-2399 United States

**For non-emergency information contact:** 215-592-3000

**Emergency telephone number**  
1 800 424 9300

**Local emergency telephone number**  
989-636-4400

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Acrylic polymer(s)		90.0 - 94.0 %
Calcium carbonate	471-34-1	5.0 - 7.0 %
Alkylsulfate salt	Trade Secret	1.0 - 3.0 %

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

#### Appearance

Form powder

Colour white

**Odour** acrylic-like

#### Hazard Summary

#### **CAUTION!**

POWDER MAY FORM EXPLOSIVE MIXTURES WITH AIR.

### Potential Health Effects

**Primary Routes of Entry:** Inhalation  
Eye contact  
Skin contact

**Eyes:** Like any foreign body, particles can cause mechanical irritation.  
Direct contact with material can cause the following:  
slight irritation

**Skin:** Prolonged or repeated skin contact can cause the following:  
slight irritation

**Inhalation:** Repeated or prolonged inhalation of dust can cause the following:  
Nausea  
Headache  
Dizziness  
May cause irritation of respiratory tract.  
Inhalation of monomer vapor from heated product can cause the following:  
irritation of nose, throat, and lungs

**Chronic Exposure:** Prolonged or repeated exposure to dust can cause the following:  
Lung irritation

#### **Carcinogenicity**

<b>Component</b>	<b>List</b>	<b>Classification</b>
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## **4. FIRST AID MEASURES**

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**Inhalation:** Move to fresh air.

**Skin contact:** Wash with water and soap as a precaution. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.

**Eye contact:** Rinse with water. If eye irritation persists, consult a specialist.

**Ingestion:** Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

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## **5. FIREFIGHTING MEASURES**

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**Flash point** not applicable

**Suitable extinguishing media:** Carbon dioxide (CO<sub>2</sub>)

Dry chemical

Water spray

**Thermal decomposition** Thermal decomposition may yield acrylic monomers., Combustion generates toxic fumes of the following:, Carbon oxides, sulfur oxides

**Specific hazards during firefighting:** Material as sold is combustible; burns vigorously with intense heat. Dusts at sufficient concentrations can form explosive mixtures with air. DO NOT use a solid

stream of water. A solid stream of water directed at this material may create a potentially explosive airborne dust mixture.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective suit.

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## 6. ACCIDENTAL RELEASE MEASURES

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### Personal precautions

Wear compatible, chemically resistant gloves.

Use personal protective equipment.

Avoid breathing dust.

Material can create slippery conditions.

Remove all sources of ignition.

Ensure adequate ventilation.

### Environmental precautions

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

### Methods for cleaning up

Sweep up and shovel into suitable containers for disposal.

Use water spray to keep dusting to a minimum.

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## 7. HANDLING AND STORAGE

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### Handling

Do not breathe dust. Do not breathe vapors, mist or gas. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep away from heat and sources of ignition. Ground all metal containers during storage and handling. Ensure adequate ventilation. Keep container tightly closed.

**Advice on protection against fire and explosion:** Avoid dusting. Under dusty conditions avoid all sources of ignition, including sparks and static electricity.

### Storage

**Storage conditions:** Store at room temperature in the original container. Keep away from heat and sources of ignition. Material can burn; limit indoor storage to approved areas equipped with automatic sprinklers. Avoid all ignition sources. This material is not hazardous under normal storage conditions. However, all materials of this type release some monomer vapors or gases when stored for prolonged periods at elevated temperatures.

### Further information:

Avoid high concentrations of dust in air and accumulation of dust on equipment. An airborne dust of this material can create a dust explosion. When handling and processing this material local exhaust ventilation may be required to control dust and reduce exposure to vapors. To prevent dust explosions employ bonding and grounding for operations capable of generating static electricity. Protect all equipment from explosions by following the guidelines in NFPA-68 and NFPA-69. For electrical equipment follow local codes and electrical classification NFPA-70 (the National Electrical Code), class II, division 2, group G.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limit(s)

Exposure limits are listed below, if they exist.

	Regulation	Type of listing	Value
Product	Rohm and Haas	TWA Respirable fraction.	1 mg/m <sup>3</sup>

  

Component	Regulation	Type of listing	Value
Calcium carbonate	Rohm and Haas	TWA	1 mg/m <sup>3</sup>
Calcium carbonate	Rohm and Haas	STEL	3 mg/m <sup>3</sup>
Calcium carbonate	NIOSH REL	TWA Respirable	5 mg/m <sup>3</sup>
Calcium carbonate	NIOSH REL	TWA total	10 mg/m <sup>3</sup>
Alkylsulfate salt	Rohm and Haas	TWA	1 mg/m <sup>3</sup>
Alkylsulfate salt	Rohm and Haas	STEL	3 mg/m <sup>3</sup>

### Exposure controls

**Engineering measures:** Use explosion-proof local exhaust ventilation with a minimum capture velocity of 150 ft/min (0.75 m/sec) at the point of dust or mist evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

**Protective measures:** Facilities storing or utilizing this material should be equipped with an eyewash facility.

### Individual protection measures

**Eye/face protection:** Safety glasses with side-shields. Eye protection worn must be compatible with respiratory protection system employed.

### Skin protection

**Hand protection:** For prolonged or repeated contact use protective gloves.

**Respiratory protection:** A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. When dusty conditions are encountered, wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) N95 filters. If oil mist is present, use R95 or P95 filters.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	powder
Colour	white
Odour	acrylic-like
pH	not applicable

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<b>Flash point</b>	not applicable
<b>Relative vapour density</b>	not applicable
<b>Water solubility</b>	insoluble
<b>Percent volatility</b>	<1 %

NOTE: The physical data presented above are typical values and should not be construed as a specification.

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## 10. STABILITY AND REACTIVITY

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<b>Hazardous reactions</b>	None known. Stable
<b>Materials to avoid</b>	Prolonged contact with acids, alkalies and strong oxidizing agents may attack or dissolve the polymer.
<b>Hazardous decomposition products</b>	Heating above the decomposition temperature will release acrylic monomers.,
<b>polymerisation</b>	Product will not undergo polymerization.

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## 11. TOXICOLOGICAL INFORMATION

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*Toxicological information on this product or its components appear in this section when such data is available.*

No data are available for this material. The information shown is based on profiles of compositionally similar materials.

<b>Acute oral toxicity</b>	LD50 rat female > 2,000 mg/kg
<b>Acute inhalation toxicity</b>	LC50 rat Dust generated at a maximum concentration of 3.4 mg/L for 4 hours was not fatal to any of 24 test animals (12 male and 12 female).
<b>Acute dermal toxicity</b>	LD50 rat > 2,000 mg/kg
<b>Skin irritation</b>	rabbit 4 Hour No skin irritation
<b>Eye irritation</b>	rabbit 24 Hour slight irritation
<b>Subchronic toxicity</b>	A 13-week inhalation study in rats of a compositionally similar acrylic powder showed inflammatory effects in the lung at concentrations of 6 mg/m <sup>3</sup> for 6 hours per day, 5 days per week. These findings were consistent with high concentration exposure effects reported for other non-soluble dusts such as titanium dioxide and toner. Maintaining airborne dust concentrations within the recommended exposure limit is not expected to produce adverse effects within the lung.

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## 12. ECOLOGICAL INFORMATION

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*Ecotoxicological information on this product or its components appear in this section when such data is available.*

There is no data available for this product.

### **Alkylsulfate salt**

#### **Elimination information (persistence and degradability)**

**Biodegradability**                      OECD Test Guideline 301C or Equivalent  
85 %  
10-day Window: Pass

#### **Ecotoxicity effects**

**Toxicity to fish**                      LC50 Pimephales promelas (fathead minnow) 96 Hour Method Not Specified  
6.6 mg/l

**Toxicity to algae**                      EC50 Pseudokirchneriella subcapitata (green algae) 96 Hour Method Not Specified  
117 mg/l

**Toxicity to aquatic invertebrates**                      EC50 Daphnia magna (Water flea) 48 Hour Method Not Specified  
6.2 - 49.4 mg/l

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## 13. DISPOSAL CONSIDERATIONS

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**Environmental precautions:** CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

### **Disposal**

**Waste Classification:** When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

Place powder in air-tight bags. For disposal, incinerate or landfill at a permitted facility in accordance with local, state, and federal regulations.

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## 14. TRANSPORT INFORMATION

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### **DOT**

Not regulated for transport

### **Classification for SEA transport (IMO-IMDG):**

Not regulated (Not dangerous for transport)

*Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations*

## 15. REGULATORY INFORMATION

### Workplace Classification

OSHA: This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

WHMIS: This product is a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS).

**SARA TITLE III: Section 311/312 Categorizations (40CFR370):** Chronic Health Hazard

### SARA TITLE III: Section 313 Information (40CFR372)

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

### CERCLA Information (40CFR302.4)

Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

**United States TSCA Inventory (US.TSCA):** All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

### Pennsylvania

Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

## 16. OTHER INFORMATION

### HMIS Hazard Rating

Health	Fire	Reactivity	Physical Hazard	PPE
*1	1	0		

\* = Chronic Effects (See Hazards Identification)

### Legend

ACGIH	American Conference of Governmental Industrial Hygienists
BAC	Butyl acetate
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit (STEL):

TLV	Threshold Limit Value
TWA	Time Weighted Average (TWA):
	Bar denotes a revision from prior MSDS.

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.

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