



ORDER NO: MV765925

MATERIAL SAFETY DATA SHEET  
CUST: TALAS

MSDS NO: 69776  
VERSION: 006 05/15/15



## SAFETY DATA SHEET

THE DOW CHEMICAL COMPANY\*

Product name: AVANSE™ MV-100 Emulsion

Issue Date: 04/06/2015

Print Date: 04/07/2015

THE DOW CHEMICAL COMPANY\* encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

### 1. IDENTIFICATION

Product name: AVANSE™ MV-100 Emulsion

Recommended use of the chemical and restrictions on use

Identified uses: Coatings product

#### COMPANY IDENTIFICATION

THE DOW CHEMICAL COMPANY\*  
Agent for Rohm and Haas Chemicals LLC  
100 INDEPENDENCE MALL WEST  
PHILADELPHIA PA 19106-2399  
UNITED STATES

Customer Information Number:

215-592-3000

SDSQuestion@dow.com

#### EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: 1 800 424 9300

Local Emergency Contact: 989-636-4400

### 2. HAZARDS IDENTIFICATION

#### Hazard classification

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

#### Other hazards

no data available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Polymers, water based

This product is a mixture.

Component

CASRN

Concentration



ORDER NO: MV765925

MATERIAL SAFETY DATA SHEET  
CUST: TALAS

MSDS NO: 69776  
VERSION: 006 05/15/15

**Product name: AVANSE™ MV-100 Emulsion**

**Issue Date: 04/06/2015**

Acrylic polymer(s)	Not hazardous	>= 50.0 - <= 51.0 %
Residual monomers	Not available	< 0.035 %
Aqua ammonia	1336-21-6	< 0.2 %
Water	7732-18-5	>= 49.0 - <= 50.0 %

#### 4. FIRST AID MEASURES

**Description of first aid measures**

**Inhalation:** Move to fresh air.

**Skin contact:** Wash with water and soap as a precaution. If skin irritation persists, call a physician.

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

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

**Most important symptoms and effects, both acute and delayed:** Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

**Indication of any immediate medical attention and special treatment needed**

**Notes to physician:** Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

#### 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable extinguishing media:** no data available

**Special hazards arising from the substance or mixture**

**Hazardous combustion products:** no data available

**Unusual Fire and Explosion Hazards:** Material can splatter above 100C/212F. Dried product can burn.

**Advice for firefighters**

**Fire Fighting Procedures:** no data available

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



ORDER NO: MV765925

MATERIAL SAFETY DATA SHEET  
CUST: TALAS

MSDS NO: 69776  
VERSION: 006 05/15/15

**Product name:** AVANSE™ MV-100 Emulsion

**Issue Date:** 04/06/2015

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Keep people away from and upwind of spill/leak. Material can create slippery conditions.

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

**Methods and materials for containment and cleaning up:** Contain spills immediately with inert materials (e.g., sand, earth). Transfer spilled material to suitable containers for recovery or disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapors, mist or gas.

**Conditions for safe storage:** Keep from freezing - product stability may be affected. STIR WELL BEFORE USE.

### Storage stability

**Storage temperature:** 1 - 49 °C (34 - 120 °F)

Other data: Monomer vapors can be evolved when material is heated during processing operations. See SECTION 8, for types of ventilation required.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
Aqua ammonia	Rohm and Haas	TWA	10 ppm, As Ammonia
	OSHA Z-1	TWA	35 mg/m3 50 ppm
	ACGIH	TWA	25 ppm, Ammonia
	ACGIH	STEL	35 ppm, Ammonia

### Exposure controls

**Engineering controls:** Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5 m/sec.) at the point of vapor 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:** The glove(s) listed below may provide protection against permeation. (Gloves of other chemically resistant materials may not provide adequate protection): Neoprene 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



ORDER NO: MV765925

MATERIAL SAFETY DATA SHEET  
CUST: TALAS

MSDS NO: 69776  
VERSION: 006 05/15/15

**Product name: AVANSE™ MV-100 Emulsion**

**Issue Date: 04/06/2015**

respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. For airborne concentrations up to 10 times the exposure limit, wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) ammonia/methylamine cartridges and N95 filters. If oil mist is present, use R95 or P95 filters.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Physical state	liquid
Color	Milky white
Odor	Ammonia
Odor Threshold	no data available
pH	8.5 - 9.5
Melting point/range	0 °C ( 32 °F) Water
Freezing point	no data available
Boiling point (760 mmHg)	100 °C ( 212 °F) Water
Flash point	Noncombustible
Evaporation Rate (Butyl Acetate = 1)	<1 Water
Flammability (solid, gas)	Not Applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor Pressure	17 mmHg at 20 °C (68 °F) Water
Relative Vapor Density (air = 1)	<1 Water
Relative Density (water = 1)	1.06
Water solubility	Dilutable
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Dynamic Viscosity	<500 mPa.s
Kinematic Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available
Molecular weight	no data available
Percent volatility	49 - 50 % Water

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



ORDER NO: MV765925

MATERIAL SAFETY DATA SHEET  
CUST: TALAS

MSDS NO: 69776  
VERSION: 006 05/15/15

**Product name: AVANSE™ MV-100 Emulsion**

**Issue Date: 04/06/2015**

---

## 10. STABILITY AND REACTIVITY

---

**Reactivity:** no data available

**Chemical stability:** no data available

**Possibility of hazardous reactions:** None known.  
Product will not undergo polymerization.  
Stable

**Conditions to avoid:** no data available

**Incompatible materials:** There are no known materials which are incompatible with this product.

**Hazardous decomposition products:** Thermal decomposition may yield acrylic monomers.

---

## 11. TOXICOLOGICAL INFORMATION

---

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

### Acute toxicity

#### Acute oral toxicity

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

For this family of materials:  
LD50, Rat, > 5,000 mg/kg

#### Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

For this family of materials:  
LD50, Rat, > 2,000 mg/kg No deaths occurred at this concentration.

#### Acute inhalation toxicity

With good ventilation, single exposure is not expected to cause adverse effects. If material is heated or areas are poorly ventilated, vapor/mist may accumulate and cause respiratory irritation and symptoms such as headache and nausea.

For this family of materials: The LC50 has not been determined.

### Skin corrosion/irritation

Brief contact is essentially nonirritating to skin.

### Serious eye damage/eye irritation

Essentially nonirritating to eyes.  
Corneal injury is unlikely.

### Sensitization

For skin sensitization:  
No relevant data found.



ORDER NO: MV765925

MATERIAL SAFETY DATA SHEET  
CUST: TALAS

MSDS NO: 69776  
VERSION: 006 05/15/15

**Product name: AVANSE™ MV-100 Emulsion**

**Issue Date: 04/06/2015**

For respiratory sensitization:  
No relevant data found.

**Specific Target Organ Systemic Toxicity (Single Exposure)**  
Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**  
No relevant data found.

**Carcinogenicity**  
No relevant data found.

**Teratogenicity**  
No relevant data found.

**Reproductive toxicity**  
No relevant data found.

**Mutagenicity**  
For this family of materials: In vitro genetic toxicity studies were negative.

**Aspiration Hazard**  
Based on physical properties, not likely to be an aspiration hazard.

**COMPONENTS INFLUENCING TOXICOLOGY:**

**Acrylic polymer(s)**  
**Acute Inhalation toxicity**  
The LC50 has not been determined.

**Residual monomers**  
**Acute inhalation toxicity**  
The LC50 has not been determined.

**Aqua ammonia**  
**Acute Inhalation toxicity**  
LC50, Rat, male, 1 Hour, dust/mist, 9.850 mg/l

---

**12. ECOLOGICAL INFORMATION**

---

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

**Toxicity**

**Acute toxicity to fish**  
For this family of materials:  
Material is practically non-toxic to aquatic organisms on an acute basis  
(LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

For this family of materials:



ORDER NO: MV765925

MATERIAL SAFETY DATA SHEET  
CUST: TALAS

MSDS NO: 69776  
VERSION: 006 05/15/15

**Product name: AVANSE™ MV-100 Emulsion**

**Issue Date: 04/06/2015**

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).

For this family of materials:  
LC50, *Oncorhynchus mykiss* (rainbow trout), 96 Hour, > 1,000 mg/l

**Acute toxicity to aquatic invertebrates**

For this family of materials:  
EC50, *Daphnia magna* (Water flea), 48 Hour, > 1,000 mg/l

**Persistence and degradability**

**Biodegradability:** Although the polymers are not biodegradable, they would likely be removed in biological wastewater treatment plants by adsorption to biosolids.

**Bioaccumulative potential**

**Bioaccumulation:** No bioconcentration of the polymeric component is expected because of its high molecular weight. Polymeric dispersions will color water a milky white.

**Mobility in soil**

No relevant data found.

---

### 13. DISPOSAL CONSIDERATIONS

---

**Disposal methods:** Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. For disposal, incinerate or landfill at a permitted facility in accordance with local, state, and federal regulations.

---

### 14. TRANSPORT INFORMATION

---

DOT

Not regulated for transport

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

**Transport in bulk  
according to Annex I or II  
of MARPOL 73/78 and the  
IBC or IGC Code**

Not regulated for transport  
Consult IMO regulations before transporting ocean bulk

**Classification for AIR transport (IATA/ICAO):**

Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service



ORDER NO: MV765925

MATERIAL SAFETY DATA SHEET  
CUST: TALAS

MSDS NO: 69776  
VERSION: 006 05/15/15

**Product name: AVANSE™ MV-100 Emulsion**

**Issue Date: 04/06/2015**

representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

---

## 15. REGULATORY INFORMATION

---

### OSHA Hazard Communication Standard

This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200).

### Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

### Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

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

### Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103

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.

### 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.

### United States TSCA Inventory (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.

:

---

## 16. OTHER INFORMATION

---

### Hazard Rating System

#### HMIS

Health	Flammability	Physical Hazard
1	0	0

### Revision

Identification Number: 101115415 / 1001 / Issue Date: 04/06/2015 / Version: 2.0





ORDER NO: MV765925

MATERIAL SAFETY DATA SHEET  
CUST: TALAS

MSDS NO: 69776  
VERSION: 006 05/15/15

**Product name: AVANSE™ MV-100 Emulsion**

**Issue Date: 04/06/2015**

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

**Legend**

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
Rohm and Haas	Rohm and Haas OEL's
STEL	Short-term exposure limit
TWA	Time weighted average

**Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

THE DOW CHEMICAL COMPANY\* urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.