

# **SAFETY DATA SHEET**

## **ROHM & HAAS CHEMICALS LLC**

Product name: ECO-3988/BASE BULK Issue Date: 11/27/2023
Print Date: 01/02/2025

ROHM & HAAS CHEMICALS LLC 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: ECO-3988/BASE BULK

Recommended use of the chemical and restrictions on use

**Identified uses:** Coatings product

**COMPANY IDENTIFICATION** 

ROHM & HAAS CHEMICALS LLC Agent for Rohm and Haas Chemicals LLC 400 ARCOLA ROAD COLLEGEVILLE PA 19426-2914 UNITED STATES

Customer Information Number: 800-258-2436

SDSQuestion@dow.com

**EMERGENCY TELEPHONE NUMBER** 

**24-Hour Emergency Contact:** 1 800 424 9300 **Local Emergency Contact:** 800-424-9300

## 2. HAZARDS IDENTIFICATION

#### **Hazard classification**

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### Other hazards

No data available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Polymers, water based

This product is a mixture.

Component CASRN Concentration

Acrylic polymer(s)	Not hazardous	>= 56.0 - <= 60.0 %
Residual monomers	Not required	< 500.0 PPM
Aqua ammonia	1336-21-6	<= 0.2 %
Water	7732-18-5	>= 40.0 - <= 44.0 %

# 4. FIRST AID MEASURES

# Description of first aid measures General advice:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air and keep comfortable for breathing; consult a physician.

**Skin contact:** Wash off with plenty of water.

**Eye contact:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**Ingestion:** Rinse mouth with water. No emergency medical treatment necessary.

## 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:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## 5. FIREFIGHTING MEASURES

#### Extinguishing media

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

Unsuitable extinguishing media: None known...

Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide.. Carbon monoxide..

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

Page 2 of 14

## Advice for firefighters

Fire Fighting Procedures: No data available

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

## 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 liquids and solid diking material to separate 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. Due to the crosslinking nature of this material,this product will generate additional formaldehyde upon cure. Lack of adequate ventilation may result in airborne levels of formaldehyde above established exposure limits in the workplace. Monitoring the workplace to determine actual formaldehyde levels is recommended. Formaldehyde will be generated under acidic conditions. Maintain adequate ventilation under these conditions to prevent airborne levels of formaldehyde above established exposure limits in the workplace.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value	
Aqua ammonia	Dow IHG	TWA	10 ppm, As Ammonia	
	ACGIH	TWA	25 ppm, Ammonia	
	ACGIH	STEL	35 ppm, Ammonia	
	OSHA Z-1	TWA	35 mg/m3 50 ppm	
	Further information: (b): The	Further information: (b): The value in mg/m3 is approximate.		

## **Exposure controls**

**Engineering controls:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

#### **Individual protection measures**

**Eye/face protection:** Use safety glasses (with side shields). **Skin protection** 

Hand protection: Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Neoprene. Avoid gloves made of: Polyvinyl alcohol ("PVA"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Physical state liquid Milky
Color white opaque
Odor acrylic-like

Odor Threshold No data available

**pH** 6.0 - 9.5

Melting point/range0 °C (32 °F) WaterFreezing pointNo data availableBoiling point (760 mmHg)100 °C (212 °F) Water

Flash point Noncombustible

Evaporation Rate (Butyl Acetate <1 Water

= 1)

Flammability (solid, gas)

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) No data available

Water solubility insoluble

Partition coefficient: n- No data available

octanol/water

Auto-ignition temperatureNot applicableDecomposition temperatureNo data available

**Dynamic Viscosity** <=150 cP

Kinematic Viscosity

Explosive properties

Oxidizing properties

Molecular weight

Percent volatility

No data available

No data available

No data available

43.0 - 47.0 %

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

## 10. STABILITY AND REACTIVITY

Reactivity: None reasonably foreseeable.

Chemical stability: Stable

Possibility of hazardous reactions: Product will not undergo polymerization.

Conditions to avoid: No data available

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

## Hazardous decomposition products

No hazardous decomposition products are known.

## 11. TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data are available.

## Information on likely routes of exposure

Ingestion, Inhalation, Skin contact, Eye contact.

Acute toxicity (represents short term exposures with immediate effects - no chronic/delayed effects known unless otherwise noted)

**Acute oral toxicity** 

Information for the Product:

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

As product: Single dose oral LD50 has not been determined.

For similar material(s):

LD50, Rat, male, > 5,000 mg/kg

# Information for components:

#### Acrylic polymer(s)

Single dose oral LD50 has not been determined.

## **Residual monomers**

Single dose oral LD50 has not been determined.

## Aqua ammonia

Single dose oral LD50 has not been determined.

# **Acute dermal toxicity**

#### Information for the Product:

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

As product: The dermal LD50 has not been determined.

For similar material(s):

LD50, Rabbit, > 2,000 mg/kg

# Information for components:

#### Acrylic polymer(s)

The dermal LD50 has not been determined.

#### Residual monomers

The dermal LD50 has not been determined.

#### Aqua ammonia

The dermal LD50 has not been determined.

# Acute inhalation toxicity

#### Information for the Product:

With good ventilation, single exposure is not likely to be hazardous. In poorly ventilated areas, vapors or mists may accumulate and cause respiratory irritation.

As product: The LC50 has not been determined.

#### Information for components:

# Acrylic polymer(s)

The LC50 has not been determined.

#### **Residual monomers**

The LC50 has not been determined.

#### Aqua ammonia

The LC50 has not been determined.

#### Skin corrosion/irritation

#### Information for the Product:

Based on testing for product(s) in this family of materials:

Prolonged contact may cause slight skin irritation with local redness.

## Information for components:

## Acrylic polymer(s)

Essentially nonirritating to skin.

#### Residual monomers

Essentially nonirritating to skin.

# Aqua ammonia

Brief contact may cause skin burns. Symptoms may include pain, severe local redness and tissue damage.

Classified as corrosive to the skin according to DOT guidelines.

# Serious eye damage/eye irritation

## Information for the Product:

Based on testing for product(s) in this family of materials:

May cause slight temporary eye irritation.

Corneal injury is unlikely.

#### Information for components:

# Acrylic polymer(s)

Essentially nonirritating to eyes.

## Residual monomers

Essentially nonirritating to eyes.

#### Aqua ammonia

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

## Sensitization

#### Information for the Product:

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

# Information for components:

# Acrylic polymer(s)

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

#### **Residual monomers**

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

# Aqua ammonia

For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

# **Specific Target Organ Systemic Toxicity (Single Exposure)**

## Information for the Product:

Product test data not available.

# Information for components:

#### Acrylic polymer(s)

Available data are inadequate to determine single exposure specific target organ toxicity.

#### **Residual monomers**

Available data are inadequate to determine single exposure specific target organ toxicity.

## Aqua ammonia

May cause respiratory irritation. Route of Exposure: Inhalation Target Organs: Respiratory Tract

## **Aspiration Hazard**

## Information for the Product:

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

#### Information for components:

## Acrylic polymer(s)

Product name: ECO-3988/BASE BULK

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

# **Residual monomers**

Based on available information, aspiration hazard could not be determined.

## Aqua ammonia

Aspiration into the respiratory system may occur during ingestion or vomiting. Due to corrosivity, tissue damage or lung injury may occur.

Chronic toxicity (represents longer term exposures with repeated dose resulting in chronic/delayed effects - no immediate effects known unless otherwise noted)

**Specific Target Organ Systemic Toxicity (Repeated Exposure)** 

#### Information for the Product:

Product test data not available.

# Information for components:

## Acrylic polymer(s)

No relevant data found.

# **Residual monomers**

No relevant data found.

## Aqua ammonia

No relevant data found.

# Carcinogenicity

## Information for the Product:

Product test data not available.

# Information for components:

#### Acrylic polymer(s)

No relevant data found.

#### **Residual monomers**

No relevant data found.

# Aqua ammonia

Did not cause cancer in laboratory animals.

# **Teratogenicity**

#### Information for the Product:

Product test data not available.

#### Information for components:

#### Acrylic polymer(s)

No relevant data found.

#### **Residual monomers**

No relevant data found.

#### Aqua ammonia

No relevant data found.

## Reproductive toxicity

## Information for the Product:

Product test data not available.

## Information for components:

## Acrylic polymer(s)

No relevant data found.

#### **Residual monomers**

No relevant data found.

## Aqua ammonia

No relevant data found.

# Mutagenicity

#### Information for the Product:

Product test data not available.

## Information for components:

## Acrylic polymer(s)

No relevant data found.

#### **Residual monomers**

No relevant data found.

## Aqua ammonia

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

# 12. ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data are available.

# **Toxicity**

# Acrylic polymer(s)

Acute toxicity to fish

No relevant data found.

#### **Residual monomers**

## Acute toxicity to fish

No relevant data found.

## Aqua ammonia

#### Acute toxicity to fish

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

May increase pH of aquatic systems to > pH 10 which may be toxic to aquatic organisms.

LC50, Lepomis macrochirus (Bluegill sunfish), 96 Hour, 0.87 mg/l

LC50, Pimephales promelas (fathead minnow), 96 Hour, 1.2 mg/l

## Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), 48 Hour, 0.66 mg/l

## Persistence and degradability

#### Acrylic polymer(s)

Biodegradability: No relevant data found.

## **Residual monomers**

Biodegradability: No relevant data found.

#### Aqua ammonia

**Biodegradability:** Biodegradation may occur under aerobic conditions (in the presence of oxygen). Biodegradation rate may increase in soil and/or water with acclimation.

Theoretical Oxygen Demand: 0.76 mg/mg

# **Bioaccumulative potential**

#### Acrylic polymer(s)

Bioaccumulation: No relevant data found.

#### **Residual monomers**

Bioaccumulation: No relevant data found.

## Aqua ammonia

**Bioaccumulation:** No bioconcentration is expected because of the relatively high water

Solubility.

# Mobility in soil

## Acrylic polymer(s)

No relevant data found.

# **Residual monomers**

No relevant data found.

# Aqua ammonia

Potential for mobility in soil is very high (Koc between 0 and 50).

## 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.

**Contaminated packaging:** Empty containers may retain product residues and should be disposed of by an approved waste management facility. Label warnings should be followed even after container is emptied. Improper disposal or reuse of this container may be dangerous and illegal. Consultwith the respective regulating authorities to determine the available treatment and disposal facilities. All disposal practices must be in compliance with Federal, State/Provincial and local regulations.

# 14. TRANSPORT INFORMATION

DOT

Not regulated for transport

Classification for SEA transport (IMO-IMDG):

Not regulated for transport Consult IMO regulations before transporting ocean bulk

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

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 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

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312
No SARA Hazards

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

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **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.

## California Prop. 65

WARNING: This product can expose you to chemicals including Acrylonitrile, Methylolacrylamide, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

# **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: 10225646 / 1001 / Issue Date: 11/27/2023 / Version: 5.0

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)
Dow IHG	Dow Industrial Hygiene Guideline
OSHA Z-1	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air
	Contaminants
STEL	Short-term exposure limit
TWA	Time weighted average

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International

Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan): ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose): MARPOL - International Convention for the Prevention of Pollution from Ships: MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA -Resource Conservation and Recovery Act: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA -Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### **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.

ROHM & HAAS CHEMICALS LLC 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.