



# SAFETY DATA SHEET

THE DOW CHEMICAL COMPANY\*

Product name: RHOPLEX™ HG-1630 Emulsion

Issue Date: 05/15/2015  
Print Date: 07/12/2015

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.

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## 1. IDENTIFICATION

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Product name: RHOPLEX™ HG-1630 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:** 800-424-9300

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## 2. HAZARDS IDENTIFICATION

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### Hazard classification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Skin sensitisation - Category 1

### Label elements

**Hazard pictograms**



Signal word: **WARNING!**

**Hazards**

May cause an allergic skin reaction.

**Precautionary statements****Prevention**

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves.

**Response**

IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Wash contaminated clothing before reuse.

**Disposal**

Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

no data available

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**Chemical nature:** Acrylic emulsion

This product is a mixture.

| Component                              | CASRN         | Concentration |
|--|---------------|---------------|
| Acrylic polymer(s)                     | Not hazardous | 44.0 - 46.0 % |
| Residual monomers                      | Not required  | < 0.05 %      |
| Water                                  | 7732-18-5     | 54.0 - 56.0 % |
| 2-Methyl-4-isothiazolin-3-one          | 2682-20-4     | < 50.0 PPM    |
| 5-Chloro-2-methyl-4-isothiazolin-3-one | 26172-55-4    | < 50.0 PPM    |

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### 4. FIRST AID MEASURES

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**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 should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

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## **5. FIREFIGHTING MEASURES**

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**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.

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## **6. ACCIDENTAL RELEASE MEASURES**

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**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.

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## **7. HANDLING AND STORAGE**

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**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          |
|--|---------------|-----------------|-------------------------|
| 2-Methyl-4-isothiazolin-3-one          | Rohm and Haas | TWA             | 1.5 mg/m <sup>3</sup>   |
|  | Rohm and Haas | STEL            | 4.5 mg/m <sup>3</sup>   |
| 5-Chloro-2-methyl-4-isothiazolin-3-one | Rohm and Haas | TWA             | 0.076 mg/m <sup>3</sup> |
|  | Rohm and Haas | STEL            | 0.23 mg/m <sup>3</sup>  |

### 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 respirator's use. None required under normal operating conditions. Where vapors and/or mists may occur, wear a properly fitted NIOSH approved (or equivalent) half-mask, air-purifying respirator. Air-purifying respirators should be equipped with NIOSH approved (or equivalent) organic vapor cartridges and N95 filters. If oil mist is present, use R95 or P95 filters.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Physical state</b>           | liquid Milky                 |
| <b>Color</b>                    | white                        |
| <b>Odor</b>                     | Amine odor                   |
| <b>Odor Threshold</b>           | no data available            |
| <b>pH</b>                       | 7.7 - 8.5                    |
| <b>Melting point/range</b>      | 0 °C ( 32 °F) Water          |
| <b>Freezing point</b>           | no data available            |
| <b>Boiling point (760 mmHg)</b> | 100.00 °C ( 212.00 °F) Water |

|  |                                |
|--|--------------------------------|
| Flash point                            | Noncombustible                 |
| Evaporation Rate (Butyl Acetate = 1)   | <1.00 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)       | <1.0000 Water                  |
| Relative Density (water = 1)           | 1.0000 - 1.2000                |
| Water solubility                       | Dilutable                      |
| Partition coefficient: n-octanol/water | no data available              |
| Auto-ignition temperature              | Not Applicable                 |
| Decomposition temperature              | no data available              |
| Dynamic Viscosity                      | 10 - 250 mPa.s                 |
| Kinematic Viscosity                    | no data available              |
| Explosive properties                   | no data available              |
| Oxidizing properties                   | no data available              |
| Molecular weight                       | no data available              |
| Percent volatility                     | 54 - 56 % Water                |

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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**Reactivity:** no data available

**Chemical stability:** Stable

**Possibility of hazardous reactions:** None known.  
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:** Thermal decomposition may yield acrylic monomers.

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## 11. TOXICOLOGICAL INFORMATION

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*Toxicological information appears in this section when such data is available.*

**Acute toxicity**

**Acute oral toxicity**

LD50, Rat, > 5,000 mg/kg

**Acute dermal toxicity**

LD50, Rabbit, > 5,000 mg/kg

**Acute inhalation toxicity**

Product test data not available.

**Skin corrosion/irritation**

May cause transient irritation.

**Serious eye damage/eye irritation**

No eye irritation

**Sensitization**

Product test data not available.

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

Product test data not available.

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

Product test data not available.

**Carcinogenicity**

Product test data not available.

**Teratogenicity**

Product test data not available.

**Reproductive toxicity**

Product test data not available.

**Mutagenicity**

Product test data not available.

**Aspiration Hazard**

Product test data not available.

**Additional information**

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

**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.

**2-Methyl-4-isothiazolin-3-one**

**Acute inhalation toxicity**

The LC50 has not been determined.,

**Sensitization**

Has caused allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

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

May cause respiratory irritation.

Route of Exposure: Inhalation

Target Organs: Respiratory Tract

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

Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

**Carcinogenicity**

Did not cause cancer in laboratory animals.

**Teratogenicity**

Did not cause birth defects in laboratory animals.

**Reproductive toxicity**

In animal studies, did not interfere with reproduction.

**Mutagenicity**

Negative in genetic toxicity tests.

**Aspiration Hazard**

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

**5-Chloro-2-methyl-4-isothiazolin-3-one**

**Acute inhalation toxicity**

Prolonged excessive exposure may cause serious adverse effects, even death. Dust may cause severe irritation of the upper respiratory tract (nose and throat) and lungs.

LC50, Rat, 4 Hour, dust/mist, 0.33 mg/l

**Sensitization**

Has caused allergic skin reactions when tested in guinea pigs.

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)**

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Carcinogenicity**

Did not cause cancer in laboratory animals.

**Reproductive toxicity**

In animal studies, did not interfere with reproduction.

**Mutagenicity**

In vitro genetic toxicity studies were negative in some cases and positive in other cases.  
Animal genetic toxicity studies were negative.

**Aspiration Hazard**

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

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**12. ECOLOGICAL INFORMATION**

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*Ecotoxicological information appears in this section when such data is available.*

**General Information**

There is no data available for this product.

**Toxicity****Acrylic polymer(s)****Acute toxicity to fish**

No relevant data found.

**Residual monomers****Acute toxicity to fish**

No relevant data found.

**2-Methyl-4-isothiazolin-3-one****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).

LC50, *Oncorhynchus mykiss* (rainbow trout), 96 Hour, 4.77 mg/l, OECD Test Guideline 203 or Equivalent

**Acute toxicity to aquatic invertebrates**

LC50, *Daphnia magna* (Water flea), 48 Hour, 0.93 - 1.9 mg/l

**Acute toxicity to algae/aquatic plants**

EC50, Algae (*Selenastrum capricornutum*), 72 Hour, Growth rate, 0.158 mg/l, OECD Test Guideline 201

**Chronic toxicity to aquatic invertebrates**

NOEC, *Daphnia magna*, 21 d, 0.04 mg/l

**5-Chloro-2-methyl-4-isothiazolin-3-one****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).



LC50, Rainbow trout (*Oncorhynchus mykiss*), 96 Hour, 0.19 mg/l, OECD Test Guideline 203 or Equivalent  
LC50, Bluegill sunfish (*Lepomis macrochirus*), 96 Hour, 0.28 mg/l

**Acute toxicity to aquatic invertebrates**

EC50, *Daphnia magna*, 48 Hour, 0.16 mg/l

**Acute toxicity to algae/aquatic plants**

NOEC, *Selenastrum capricornutum* (green algae), Growth rate, 0.0099 mg/l  
EC50, Algae (*Selenastrum capricornutum*), 72 Hour, Growth rate, 0.018 mg/l

**Toxicity to bacteria**

EC50, Bacteria, 16 Hour, 5.7 mg/l

**Chronic toxicity to aquatic invertebrates**

NOEC, *Daphnia magna* (Water flea), 21 d, number of offspring, 0.172000 mg/l  
LOEC, *Daphnia magna* (Water flea), 21 d, number of offspring, 0.572000 mg/l

**Persistence and degradability**

**Acrylic polymer(s)**

**Biodegradability:** No relevant data found.

**Residual monomers**

**Biodegradability:** No relevant data found.

**2-Methyl-4-isothiazolin-3-one**

**Biodegradability:** Material is expected to be readily biodegradable.

**Biodegradation:** 98 %

**Exposure time:** 48 d

**Method:** Simulation study

**5-Chloro-2-methyl-4-isothiazolin-3-one**

**Biodegradability:** Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

10-day Window: Not applicable

**Biodegradation:** 98 %

**Exposure time:** 2 d

**Method:** OECD Test Guideline 302B or Equivalent

**Bioaccumulative potential**

**Acrylic polymer(s)**

**Bioaccumulation:** No relevant data found.

**Residual monomers**

**Bioaccumulation:** No relevant data found.

**2-Methyl-4-isothiazolin-3-one**

**Bioaccumulation:** Does not bioaccumulate. Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Partition coefficient: n-octanol/water(log Pow):** -0.75 Measured

**5-Chloro-2-methyl-4-isothiazolin-3-one**

Partition coefficient: n-octanol/water(log Pow): -0.71 - 0.75 Measured

**Mobility in soil****Residual monomers**

No relevant data found.

**2-Methyl-4-isothiazolin-3-one**

No relevant data found.

**5-Chloro-2-methyl-4-isothiazolin-3-one**

No relevant data found.

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**13. DISPOSAL CONSIDERATIONS**

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**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.

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**14. TRANSPORT INFORMATION**

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

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## 15. REGULATORY INFORMATION

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### OSHA Hazard Communication Standard

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

### 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.

### California (Proposition 65)

This product contains trace levels of a component or components known to the state of California to cause cancer:

| Components   | CASRN   |
|--------------|---------|
| Formaldehyde | 50-00-0 |

### 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.

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## 16. OTHER INFORMATION

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### Hazard Rating System

#### HMIS

| Health | Flammability | Physical Hazard |
|--------|--------------|-----------------|
| 1      | 0            | 0               |

### Revision

Identification Number: 101105232 / 1001 / Issue Date: 05/15/2015 / Version: 2.0

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

**Legend**

|               |                                   |
|---------------|-----------------------------------|
| Rohm and Haas | Rohm and Haas OEL's               |
| STEL          | Short Term Exposure Limit (STEL): |
| TWA           | Time Weighted Average (TWA):      |

**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.