# **MOMENTIVE**

# **Material Safety Data Sheet**

FOR INDUSTRIAL USE ONLY

Wonderbond(TM) Hrdnr M 318LY

## 1. Product and company identification

**Product name** 

Wonderbond(TM) Hrdnr M 318LY

**MSDS Number** 

000000103895

**Product Type** 

Catalyst

**Product use** 

Wonderbond Hardener

Manufacturer, Importer,

Momentive Specialty Chemicals Inc.

**Supplier** 

180 East Broad Street

Columbus Ohio 43215

4information@momentive.com

Print date

25-APR-2013

**Telephone** 

For Emergency Medical Assistance

Call Health & Safety Information Services, 1-866-303-6949

For Emergency Transportation Information CHEMTREC US Domestic (800) 424-9300 CHEMTREC International (703) 527-3887 CANUTEC CA Domestic (613) 996-6666

For additional health and safety or regulatory information, call 1 888

443 9466.

### 2. Hazards identification

**Form** 

Liquid

Odor

Odorless/Odourless

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

**Emergency overview** 

WARNING!

CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Potential acute health effects

Inhalation

Irritating to respiratory system.

Ingestion

Not expected to be harmful under normal conditions of use.

Skin

Irritating to skin.

Eyes

Irritating to eyes.

Potential chronic health effects

**Chronic effects** 

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

**Teratogenicity** 

No known significant effects or critical hazards.

**Developmental effects** 

No known significant effects or critical hazards.

Fertility effects

No known significant effects or critical hazards.

Target organs

Review Section 2 and 11 for any additional assessments.

Over-exposure signs/symptoms

Inhalation

Adverse symptoms may include the following: respiratory tract irritation,

coughing.

Ingestion

No specific data.

Skin

Adverse symptoms may include the following: irritation, redness,

**Eyes** 

Adverse symptoms may include the following: pain or irritation, watering,

redness,

Medical conditions aggravated

by over-exposure

None known.

See section 11 for more detailed information on health effects and symptoms.

### 3. Composition/Information on ingredients

Ingredient name
Aluminum Chloride, Hexahydrate

<u>CAS number</u> 7784-13-6

WT % 30.0 - 50.0

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\*\* Any applicable Canadian trade secret numbers will be listed in Section 15.

### 4. First aid measures

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention.

Ingestion

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Protection of first aid

No action shall be taken involving any personal risk or without suitable

personnel

training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

Notes to physician

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See section 11 for more detailed information on health effects and symptoms.

### 5. Fire-fighting measures

Flammability of the product

In a fire or if heated, a pressure increase will occur and the container may burst.

**Extinguishing media** 

Suitable

Use an extinguishing agent suitable for the surrounding fire.

Not suitable

None known.

Special exposure hazards

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Hazardous combustion products

Decomposition products may include the following materials:

halogenated compounds, metal oxide/oxides,

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

Personal precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material

and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

#### Handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### 8. Exposure controls/personal protection

#### Ingredient name

Occupational exposure limits

Aluminum Chloride, Hexahydrate

**ACGIH TLV 8-hr TWA** 

2 mg/m3

**OSHA PEL Z2 8-hr TWA** 

2 mg/m3

#### Consult local authorities for acceptable exposure limits.

# Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

#### **Engineering measures**

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Respiratory

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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Hands Chemical-resistant, impervious gloves complying with an approved

standard should be worn at all times when handling chemical products if

a risk assessment indicates this is necessary.

Eyes Safety eyewear complying with an approved standard should be used

when a risk assessment indicates this is necessary to avoid exposure to

liquid splashes, mists or dusts.

Skin Personal protective equipment for the body should be selected based on

the task being performed and the risks involved and should be approved

by a specialist before handling this product.

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental

protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to

reduce emissions to acceptable levels.

# Physical and chemical properties

**Form** 

Flash point Auto-ignition temperature

Flammable limits

Lower: Upper:

Color Odor

pН **Boiling point** 

**Freezing Point** Relative density Vapor pressure Odor threshold

Solubility Partition coefficient:

n-octanol/water **Evaporation rate** 

Vapor density

Liquid

Not applicable. Not applicable.

Not applicable.

Not applicable. Clear, yellow

Odorless/Odourless 2.5 - 3.0(10% solution)

110 °C(230 °F) Not available 1.218 - 1.222 Not available Not available

Soluble Not available

Not available Not available

### 10. Stability and reactivity

Stability The product is stable. Under normal conditions of storage and use,

hazardous polymerization will not occur.

Conditions to avoid Strong oxidizer,

Materials to avoid Reactive or incompatible with the following materials: oxidizing

materials, acids,

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous

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decomposition products should not be produced.

### 11. Toxicological information

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**Acute toxicity** 

Ingredient name

Aluminum Chloride, Hexahydrate

LD50 Oral LD50 Oral Rat Mouse 3,311 mg/kg 1,990 mg/kg

#### Other Toxicological Information

Carcinogenicity

Classification

Ingredient name

Aluminum Chloride, Hexahydrate

ACGIH IARC NTP Not classified Not classified

Not listed

OSHA EU Not regulated Not classified

## 12. Ecological information

#### **Environmental effects**

No known significant effects or critical hazards.

Other adverse effects

No known significant effects or critical hazards.

### 13. Disposal considerations

#### Waste disposal

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# 14. Transport information

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

International transport regulations

Regulatory information	UN/NA number	Proper shipping name	Classes/*PG	Reportable Quantity (RQ)
CFR	2581	ALUMINUM CHLORIDE SOLUTION	Class 8 III	
TDG	2581	ALUMINUM CHLORIDE SOLUTION	Class 8 III	
IMO/IMDG	2581	ALUMINUM CHLORIDE SOLUTION	Class 8 III	

\*PG: Packing group

## 15. Regulatory information

US regulations

**HCS Classification** 

Irritating material

# U.S. Federal regulations

SARA 311/312 Classification Immediate (acute) health hazard

SARA 313 - Supplier Notification

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and

Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR

Part 372. None required.

SARA 302 Extremely Hazardous Substances None required.

State regulations

Massachusetts RTK Substances None required.

New Jersey RTK Hazardous Substances The following components are listed:

Aluminum Chloride, Hexahydrate,

Pennsylvania RTK Hazardous Substances The following components are listed:

Aluminum Chloride, Hexahydrate,

California Prop. 65: None required.

Canada

WHMIS (Canada)

Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists

Canadian NPRI: None required.

International regulations

Chemical inventories

Europe inventory Not determined.

Australia inventory (AICS) All components are listed or exempted.

China inventory (IECSC) Not determined.

Japan inventory (ENCS) All components are listed or exempted.

Japan inventory (ISHL) Not determined. Korea inventory (KECI) Not determined.

New Zealand Inventory (NZIoC) Not determined. Philippines inventory (PICCS) Not determined.

Canada inventory All components are listed or exempted.

United States inventory (TSCA 8b) All components are listed or exempted.

### 16. Other information

Hazardous Material Information System III

(U.S.A.)

III

Flammability: 0 Physical hazards: 0

Health: 2

Chronic:

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

Prepared by Date of issue Product Safety & Regulatory Compliance Group, (614)225-4778

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Version

4.1

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