

# **Material Safety Data Sheet**

**FAMOCRETE ISO** 

### 1. Product and company identification

Product name : FAMOCRETE ISO

Supplier : Willamette Valley Company

1075 Arrowsmith Eugene, OR 97402 541-484-9621

Material uses : Not available.

Manufacturer : Willamette Valley Company

1075 Arrowsmith Eugene, OR 97402 541-484-9621

 Code
 : 1026800

 Validation date
 : 10/23/2011.

 Print date
 : 10/23/2011.

Responsible name : Regulatory Compliance

In case of emergency : CALL INFOTRAC

800-535-5053 001-352-323-3500

### 2. Hazards identification

Physical state : Liquid.

Emergency overview : WARNING!

WAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE

ALLERGIC RESPIRATORY AND SKIN REACTION.

ritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact. Do not breathe vapor or mist. Do not get on skin or clothing. Avoid contact with eyes. Use only with adequate ventilation. Keep container tightly closed

and sealed until ready for use. Wash thoroughly after handling.

Routes of entry : Dermal contact. Eye contact. Inhalation.

Potential acute health effects

Inhalation : Irritating to respiratory system. May cause sensitization by inhalation. Exposure to

decomposition products may cause a health hazard. Serious effects may be delayed

following exposure.

Ingestion : No known significant effects or critical hazards.

Skin : Irritating to skin. May cause sensitization by skin contact.

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.

No known significant effects or critical hazards.

Target organs : Contains material which may cause damage to the following organs: lungs, upper

respiratory tract, eye, lens or cornea, nose/sinuses, throat.

Over-exposure signs/symptoms

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

wheezing and breathing difficulties

asthma

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#### Hazards identification 2.

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: Pre-existing respiratory and skin disorders may be aggravated by over-exposure to this

product.

exposure **Additional information** 

: Sensitization may develop as a result of a single large overexposure or from repeated overexposure at lower levels. Respiratory sensitization can result in a strong asthmatic response to future airborne exposures, even at levels well below the PEL/TLV. Symptoms may include coughing, wheezing, tightness in the chest and shortness of breath. The skin sensitization reaction may include rash, itching, hives, and swelling of the arms and legs. Sensitization can be either temporary or permanent.

See toxicological information (section 11)

#### Composition/information on ingredients 3

<u>Name</u>	<u>CAS number</u>	<u>%</u>
4,4' -Diphenylmethane Diisocyanate	101-68-8	30-60
Modified MDI	Not Disclosed	10-30
Mixed Isomers of MDI	26447-40-5	1-5

There are no ingredients or additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 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. Wash contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. 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. Get medical attention. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.

Ingestion

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. 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.

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#### First aid measures 4.

**Protection of first-aiders** 

No action shall be taken involving any personal risk or without suitable 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. Wash contaminated clothing thoroughly with water before removing or wear gloves.

Notes to physician

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

### 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** 

: Use an extinguishing agent suitable for the surrounding fire.

Suitable Not suitable

: None known.

nitrogen oxides

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

**Hazardous combustion** products

**Special protective** 

: Decomposition products may include the following materials: carbon oxides

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.

#### Accidental release measures 6.

**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.

## 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. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.

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### 7. Handling and storage

#### **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

Product name Exposure limits

4.4' -Diphenylmethane Diisocyanate

ACGIH TLV (United States).
TWA: 0.051 mg/m³ 8 hour(s).
TWA: 0.005 ppm 8 hour(s).
NIOSH REL (United States).
CEIL: 0.2 mg/m³ 10 minute(s).
CEIL: 0.02 ppm 10 minute(s).
TWA: 0.05 mg/m³ 10 hour(s).
TWA: 0.005 ppm 10 hour(s).

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.

#### **Personal protection**

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.

**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, gases 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.

# 9. Physical and chemical properties

Physical state : Liquid.

Flash point : Open cup: >204.44°C (>400°F)

Color : Amber.

Odor : Not available.

Boiling/condensation point : >100°C (>212°F)

Specific gravity : 1.19 Estimated Vapor Density : >1 [Air = 1]

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#### **FAMOCRETE ISO**

### 9. Physical and chemical properties

**VOC %** : 0%

**Evaporation rate** : <1 (Water = 1)

**Solubility**: Insoluble in the following materials: water.

### 10. Stability and reactivity

Stability : Hazardous polymerization may occur under certain conditions of storage or use.

Conditions to avoid : No specific data.

Materials to avoid : No specific data.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

**Hazardous polymerization**: Yes. Water reactive.

### 11. Toxicological information

**Carcinogenicity** 

Conclusion/Summary

IDLH : Not available.

Synergistic products : Not available.

### 12. Ecological information

**Environmental effects**: No known significant effects or critical hazards.

**Aquatic ecotoxicity** 

Conclusion/Summary : Not available.

**Biodegradability** 

Conclusion/Summary : Not available.

### 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG\*: Packing group

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### 15. Regulatory information

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

SARA 311/312 - Acute, Chronic

**SARA 313** 

**CAS** number : Product name Concentration

Form R - Reporting 4,4' -Diphenylmethane Diisocyanate 101-68-8 30-60 Mixed Isomers of MDI requirements 26447-40-5 1-5

This product contains 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.

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

#### **Canada**

: Class D-1A: Material causing immediate and serious toxic effects (Very toxic). WHMIS (Canada)

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

**Canadian lists** : CEPA Toxic substances: None of the components are listed.

Canadian NPRI: None of the components are listed.

Canada inventory : Canada inventory: All components are listed or exempted.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

#### **Mexico**

Classification



#### **EU** regulations

**Hazard symbol or symbols** 



Risk phrases : R42- May cause sensitization by inhalation.

Safety phrases : S2- Keep out of the reach of children. S23- Do not breathe vapor or spray.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the

label where possible).

S63- In case of accident by inhalation: remove casualty to fresh air and keep at rest.

#### International regulations

International lists

: Australia inventory (AICS): Not determined.

China inventory (IECSC): Not determined. Korea inventory (KECI): Not determined.

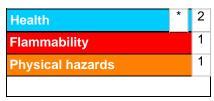
Philippines inventory (PICCS): Not determined. Japan inventory (ENCS): Not determined.

Europe inventory: Not determined.

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### 16. Other information

Hazardous Material Information System (U.S.A.)



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.

National Fire Protection Association (U.S.A.)



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Version : 1.01

✓ Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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