

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/31/2020 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : Westco HMMM 72% DLD

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Polymer crosslinking

Adhesion promoter Rubber industry

Restrictions on use : No additional information available

1.3. Supplier

Western Reserve Chemical Corporation 4837 Darrow Road Stow, OH 44224 - USA T 330 650 2244 - F 330 650 2255 www.wrchem.com

1.4. Emergency telephone number

Emergency number : CHEMTREC 1 800 424 9300 USA

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

Serious eye damage/eye irritation, Category 2A H319 Causes serious eye irritation.

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS)



Signal word (GHS) : Warning

Hazard statements (GHS) : H319 - Causes serious eye irritation.

Precautionary statements (GHS) : P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS_US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS classification |
|--------------------------------|---------------------|---------|---------------------|
| Hexakis(methoxymethyl)melamine | (CAS-No.) 3089-11-0 | 69 – 73 | Eye Irrit. 2A, H319 |
| silicic acid, calcium salt | (CAS-No.) 1344-95-2 | 25 – 29 | Not classified |

^{*}Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

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SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing. If not breathing, give artificial respiration. Get medical

advice/attention if you feel unwell.

First-aid measures after skin contact : Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it

before reuse.

First-aid measures after eye contact : Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart.

Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if

pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Drink two glasses

of water. Sip water. If vomiting occurs have person lean forward.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Inhalation of vapours may cause respiratory irritation.

Symptoms/effects after skin contact : Prolonged or repeated contact may cause skin to become dry or cracked.

Symptoms/effects after eye contact : Causes serious eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry chemical. Water spray. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Burning produces irritating, toxic and noxious fumes. Fire will produce dense black smoke.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment. Evacuate area.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid creating or spreading dust. Avoid contact with skin, eyes and clothing. Do not breathe

dust.

6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Refer to section 8.2. Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain and collect as any solid. Scoop up and store in non-combustible container.

Methods for cleaning up : Minimise generation of dust. Store away from other materials. Take up mechanically

(sweeping, shovelling) and collect in suitable container for disposal.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Avoid creating or spreading dust. Do not breathe dust.

Hygiene measures

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in original container. Keep container closed when not in use.

Incompatible products : Strong acids. Strong bases. Strong oxidizers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Westco HMMM 72% DLD

No additional information available

silicic acid, calcium salt (1344-95-2)

No additional information available

Hexakis(methoxymethyl)melamine (3089-11-0)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls

: Avoid creating or spreading dust. Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use enclosed processes where appropriate and possible. Provide local exhaust or general room ventilation.

Environmental exposure controls

Avoid release to the environment. Prevent contaminated water run-off. Prevent leakage or spillage.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear suitable gloves resistant to chemical penetration. Use rubber gloves. Fluorinated rubber gloves

Eye protection:

tightly fitting safety goggles

Respiratory protection:

Wear appropriate mask. Dust mask. Half-mask. Particle filter

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Powder.
Colour : white
Odour : odourless
Odour threshold : No data available

pH : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available

Flash point : $> 110 \, ^{\circ}\text{C}$

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Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : No data available Vapour pressure No data available Relative vapour density at 20 °C : No data available : 1.34 - 1.54 Relative density Solubility : Negligible. Log Pow : No data available Auto-ignition temperature No data available : No data available Decomposition temperature : No data available Viscosity, kinematic Viscosity, dynamic : No data available Explosive limits : No data available Explosive properties : No data available Oxidising properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Skin corrosion/irritation

Strong acids. Strong oxidizers. Strong bases.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2). Nitrogen oxides. ammonia. Formaldehyde.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| silicic acid, calcium salt (1344-95-2) | | |
|--|----------------|--|
| LD50 oral rat | > 10000 mg/kg | |
| LD50 dermal rat | > 5000 mg/kg | |
| LC50 inhalation rat (mg/l) | > 2.08 mg/l/4h | |

LC50 inhalation rat (mg/l) > 2.08 mg/l/4h Hexakis(methoxymethyl)melamine (3089-11-0) LD50 oral rat > 17000 mg/kg

: Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

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Viscosity, kinematic : No data available

Likely routes of exposure : Inhalation. Skin and eye contact.

Symptoms/effects after inhalation : Inhalation of vapours may cause respiratory irritation.

Symptoms/effects after skin contact : Prolonged or repeated contact may cause skin to become dry or cracked.

Symptoms/effects after eye contact : Causes serious eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

| silicic acid, calcium salt (1344-95-2) | |
|--|------------------------------|
| LC50 fish 1 | > 1000 mg/l 96 h |
| EC50 crustacea | ≥ 10000 mg/l 48 h |
| Hexakis(methoxymethyl)melamine (3089-11-0) | |
| LC50 fish 1 | 680 ppm 48 h Oryzias latipes |

12.2. Persistence and degradability

| Westco HMMM 72% DLD | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. Bioaccumulative potential

| Westco HMMM 72% DLD | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

12.4. Mobility in soil

| Westco HMMM 72% DLD | |
|---------------------|------------------|
| Ecology - soil | Not established. |

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated.

Transport by sea

Not regulated.

Air transport

Not regulated.

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

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CANADA

silicic acid, calcium salt (1344-95-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Hexakis(methoxymethyl)melamine (3089-11-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

National regulations

silicic acid, calcium salt (1344-95-2)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on Taiwan National Chemical Inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| Component | State or local regulations | |
|---------------------------------------|--|--|
| silicic acid, calcium salt(1344-95-2) | U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S New Jersey - Right to Know Hazardous Substance List; U.S Washington - Permissible Exposure Limits - Carcinogens | |

SECTION 16: Other information

Data sources

: TSCA Chemical Substance Inventory. Accessed at

http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html. European

Chemicals Agency (ECHA) C&L Inventory database. Accessed at

http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database. ACGIH (American Conference of Government Industrial Hygienists). Manufacturer Information. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. NFPA 400-2013

Hazardous Materials Code.

Other information : None.

Full text of H-statements:

| | H319 | Causes serious eye irritation. |
|-----|--------------------------|--------------------------------|
| Abb | reviations and acronyms: | |

| · | I |
|---|---|
| | CAS (Chemical Abstracts Service) number |
| | EC50: Environmental Concentration associated with a response by 50% of the test population. |
| | GHS: Globally Harmonized System (of Classification and Labeling of Chemicals). |
| | LD50: Lethal Dose for 50% of the test population |
| | STEL: Short Term Exposure Limits |
| | TSCA: Toxic Substances Control Act |
| | TWA: Time Weighted Average |
| | |

NFPA health hazard

: 1 - Materials that, under emergency conditions, can cause significant irritation.

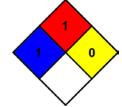
NFPA fire hazard

: 1 - Materials that must be preheated before ignition can

occur

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



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Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : .

J - Splash goggles, Gloves, Synthetic apron, Dust & vapor respirator

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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