



MULE-HIDE # 406 STANDARD FIBRATED ALUMINUM ROOF COATING

Safety Data Sheet 10-8575

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

Date of issue: 05/26/2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : MULE-HIDE # 406 STANDARD FIBRATED ALUMINUM ROOF COATING
Product code : MUL-406
Formula : 700-TRO-120

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Roof Coating

1.3. Details of the supplier of the safety data sheet

MULE-HIDE PRODUCTS CO., INC
1195 PRINCE HALL DRIVE
BELOIT, WI 53511 - United States
T (608)365-3111

1.4. Emergency telephone number

Emergency number : 800-424-9300
Chemtrec

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

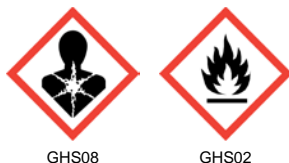
GHS-US classification

Not classified

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS08

GHS02

Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H227 - Combustible liquid
H260 - In contact with water releases flammable gases which may ignite spontaneously
H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled

Precautionary statements (GHS-US) :

P102 - Keep out of reach of children
P103 - Read label before use
P202 - Do not handle until all safety precautions have been read and understood
P223 - Do not allow contact with water
P233 - Keep container tightly closed
P234 - Keep only in original container
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P282 - Wear cold insulating gloves/face shield/eye protection
P301+P310 - If swallowed: Immediately call a poison center/doctor/...
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P313 - Get medical advice/attention
P331 - Do NOT induce vomiting
P332+P313 - If skin irritation occurs: Get medical advice/attention
P378 - Use ... to extinguish
P404 - Store in a closed container
P273 - Avoid release to the environment
P391 - Collect spillage

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2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|---|---------------------|---|--|
| SOLVESSO 100 | (CAS No) 64742-95-6 | | Not classified |
| Stoddard solvent | (CAS No) 8052-41-3 | | Muta. 1B, H340 Carc. 1B, H350 STOT RE 1, H372 Asp. Tox. 1, H304 |
| asphaltic bitumen, not cut back | (CAS No) 8052-42-4 | | Not classified |
| aluminium, powder, coated, less dangerous | (CAS No) 7429-90-5 | | Not classified |
| cellulose | (CAS No) 9004-34-6 | | Not classified |
| wollastonite, natural | (CAS No) 13983-17-0 | | Not classified |

Full text of H-phrases: see section 16

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 : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

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

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Irritation. May cause an allergic skin reaction.

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

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid. Temperature above flashpoint: higher fire/explosion hazard.

Explosion hazard : No data available on indirect explosion hazard.

Reactivity : Reacts violently with water. Reacts with (strong) oxidizers.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

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

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not allow contact with water. Remove ignition sources.

6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Keep away from any possible contact with water, because of violent reaction and possible flash fire.

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.

Handling temperature : 40 - 100 °F

Hygiene measures : Always wash hands after handling the product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : 40 - 100 °F

Heat and ignition sources : ignition sources.

Storage area : Keep only in the original container. Meet the legal requirements.

Special rules on packaging : correctly labelled. meet the legal requirements. Store in a closed container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| MULE-HIDE # 406 STANDARD FIBRATED ALUMINUM | |
|--|----------------|
| ACGIH | Not applicable |
| OSHA | Not applicable |
| SOLVESSO 100 (64742-95-6) | |
| ACGIH | Not applicable |
| OSHA | Not applicable |
| asphaltic bitumen, not cut back (8052-42-4) | |
| OSHA | Not applicable |
| aluminium,powder,coated,less dangerous (7429-90-5) | |
| OSHA | Not applicable |

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| cellulose (9004-34-6) | |
|-----------------------|----------------|
| OSHA | Not applicable |

| wollastonite,natural (13983-17-0) | |
|-----------------------------------|----------------|
| OSHA | Not applicable |

8.2. Exposure controls

| | |
|-------------------------------|--|
| Personal protective equipment | : Avoid all unnecessary exposure. |
| Hand protection | : Wear protective gloves. |
| Eye protection | : Chemical goggles or safety glasses. |
| Respiratory protection | : Wear appropriate mask. |
| Other information | : Do not eat, drink or smoke during use. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Colour | : Metallic;Silvery |
| Odour | : Aromatic odour |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Relative evaporation rate (ether=1) | : < 1 |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : Water: Solubility in water of component(s) of the mixture : • SOLVESSO 100: < 0.01 g/100ml • Stoddard solvent: insoluble • asphaltic bitumen, not cut back: insoluble • cellulose: < 0.1 g/100ml • wollastonite,natural: 0.01 g/100ml |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available. |
| Oxidising properties | : May cause or intensify fire; oxidizer. |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with water. Reacts with (strong) oxidizers.

10.2. Chemical stability

Combustible liquid. Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

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10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| SOLVESSO 100 (64742-95-6) | |
|--|-----------------------|
| LD50 oral rat | > 2000 mg/kg (Rat) |
| LD50 dermal rabbit | > 3160 mg/kg (Rabbit) |
| asphaltic bitumen, not cut back (8052-42-4) | |
| LD50 oral rat | > 2000 mg/kg (Rat) |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit) |
| cellulose (9004-34-6) | |
| LD50 oral rat | > 5000 mg/kg (Rat) |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit) |
| LC50 inhalation rat (mg/l) | > 6 mg/l/4h (Rat) |

Skin corrosion/irritation : Not classified
(Lack of data)

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified
(Lack of data)

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

| asphaltic bitumen, not cut back (8052-42-4) | |
|--|----------------------|
| IARC group | 3 - Not classifiable |
| wollastonite,natural (13983-17-0) | |
| IARC group | 3 - Not classifiable |

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Irritation. May cause an allergic skin reaction.

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

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information

12.1. Toxicity

| SOLVESSO 100 (64742-95-6) | |
|----------------------------------|-----------------------|
| LC50 fish 1 | 18 mg/l (Pisces) |
| EC50 Daphnia 1 | 21 mg/l (Daphnia sp.) |
| Threshold limit algae 1 | 1 - 10,Algae |

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| asphaltic bitumen, not cut back (8052-42-4) | |
|--|----------------------------|
| LC50 fish 1 | > 1000 mg/l (96 h; Pisces) |
| LC50 other aquatic organisms 1 | > 1000 mg/l (96 h) |
| Threshold limit other aquatic organisms 1 | > 1000 mg/l (96 h) |

| cellulose (9004-34-6) | |
|------------------------------|---------------------------|
| LC50 fish 1 | > 100 mg/l (Pisces) |
| EC50 Daphnia 1 | > 100 mg/l (Invertebrata) |
| Threshold limit algae 1 | > 100 mg/l (Algae) |

12.2. Persistence and degradability

| MULE-HIDE # 406 STANDARD FIBRATED ALUMINUM | |
|---|------------------|
| Persistence and degradability | Not established. |

| SOLVESSO 100 (64742-95-6) | |
|----------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

| asphaltic bitumen, not cut back (8052-42-4) | |
|--|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |

| aluminium,powder,coated,less dangerous (7429-90-5) | |
|---|--|
| Persistence and degradability | Biodegradability in soil: not applicable. Adsorbs into the soil. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

| cellulose (9004-34-6) | |
|-------------------------------|-------------------------|
| Persistence and degradability | Biodegradable in water. |

| wollastonite,natural (13983-17-0) | |
|--|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

12.3. Bioaccumulative potential

| MULE-HIDE # 406 STANDARD FIBRATED ALUMINUM | |
|---|------------------|
| Bioaccumulative potential | Not established. |

| SOLVESSO 100 (64742-95-6) | |
|----------------------------------|-----|
| Log Pow | > 3 |

| Stoddard solvent (8052-41-3) | |
|-------------------------------------|-----------|
| Log Pow | 3.16-7.06 |

| asphaltic bitumen, not cut back (8052-42-4) | |
|--|----------------------|
| Log Pow | > 6 (Calculated) |
| Bioaccumulative potential | Not bioaccumulative. |

| aluminium,powder,coated,less dangerous (7429-90-5) | |
|---|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |

| cellulose (9004-34-6) | |
|------------------------------|----------------------------------|
| Bioaccumulative potential | Bioaccumulation: not applicable. |

| wollastonite,natural (13983-17-0) | |
|--|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

| | |
|------------------------------|--|
| Effect on ozone layer | : |
| Effect on the global warming | : No known ecological damage caused by this product. |
| Other information | : Avoid release to the environment. |

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

- In accordance with DOT
Transport document description : Combustible Liquid - DOT 49 CFR 173.150 SUB.PAR.F. Unregulated, III
UN-No.(DOT) : Combustible Liquid - DOT 49 CFR 173.150 SUB.PAR.F. Unregulated
Packing group (DOT) : III - Minor Danger

Additional information

- Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Stoddard solvent (8052-41-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

asphaltic bitumen, not cut back (8052-42-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

cellulose (9004-34-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

15.3. US State regulations

MULE-HIDE # 406 STANDARD FIBRATED ALUMINUM()

| | |
|---|-----|
| U.S. - California - Proposition 65 - Carcinogens List | Yes |
| U.S. - California - Proposition 65 - Developmental Toxicity | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No |

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| |
|--|
| Stoddard solvent (8052-41-3) |
| U.S. - New Jersey - Right to Know Hazardous Substance List |
| asphaltic bitumen, not cut back (8052-42-4) |
| U.S. - New Jersey - Right to Know Hazardous Substance List |
| cellulose (9004-34-6) |
| U.S. - New Jersey - Right to Know Hazardous Substance List |

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

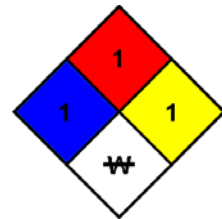
| | | |
|-------|-------------|--|
| ----- | Asp. Tox. 1 | Aspiration hazard, Category 1 |
| ----- | Carc. 1B | Carcinogenicity, Category 1B |
| ----- | Muta. 1B | Germ cell mutagenicity, Category 1B |
| ----- | STOT RE 1 | Specific target organ toxicity — Repeated exposure, Category 1 |
| ----- | H304 | May be fatal if swallowed and enters airways |
| ----- | H340 | May cause genetic defects |
| ----- | H350 | May cause cancer |
| ----- | H372 | Causes damage to organs through prolonged or repeated exposure |

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.

NFPA specific hazard : W - Unusual reactivity with water. This indicates a potential hazard using water to fight a fire involving this material. When a compound is both water-reactive and an oxidizer, the W/bar symbol should go in this quadrant and the OX warning is placed immediately below the NFPA diamond.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 2 Moderate Hazard

Physical : 1 Slight Hazard

ZGeneric SDS B&W

All information contained in this MSDS is based on current technical data believed to be accurate and reliable. Additions of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since these conditions are outside our control, we furnish this MSDS without any express or implied warranties.