TACK

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
Revision Date: 04/19/2017 Date of Issue: 04/19/2017

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixtures
Product Name: TACK
Synonyms: Emulsion

1.2. Intended Use of the Product

Use of the Substance/Mixture: PA Tack coat

1.3. Name, Address, and Telephone of the Responsible Party

Company
Russell Standard / Hammaker East
285 Kappa Drive
Suite 300
Pittsburgh, PA 15238
T: (800) 323-3053
www.russellstandard.com

1.4. Emergency Telephone Number

Emergency Number : (800) 323-3053 (24 hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US Classification
Skin Corr. 1A H314
Eye Dam. 1 H318
Skin Sens. 1 H317
Carc. 2 H351
STOT SE 2 H371
STOT RE 2 H373
Aquatic Acute 2 H401
Aquatic Chronic 2 H411

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

2.2. Label Elements

GHS-US Labeling
Hazard Pictograms (GHS-US) :

Signal Word (GHS-US) : Danger
Hazard Statements (GHS-US) : H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H351 - Suspected of causing cancer.
H371 - May cause damage to organs.
H373 - May cause damage to organs through prolonged or repeated exposure.
H401 - Toxic to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements (GHS-US) :
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe vapors, mist, or spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, and eye protection.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated
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2.3. Other Hazards
Exposure may aggravate pre-existing eye, skin, or respiratory conditions. May be corrosive to respiratory tract.

2.4. Unknown Acute Toxicity (GHS-US)
No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>(CAS-No.) 8052-42-4</td>
<td>57 - 65</td>
<td>Carc. 2, H351</td>
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<td>Water</td>
<td>(CAS-No.) 7732-18-5</td>
<td>35 - 43</td>
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<td></td>
<td>Skin Irrit. 2, H315</td>
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<td>Eye Irrit. 2A, H319</td>
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<td>Skin Sens. 1, H317</td>
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<td>STOT SE 3, H335</td>
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<td>STOT RE 2, H373</td>
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<tr>
<td>Asphalt Emulsifier B</td>
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<td>Skin Irrit. 2, H315</td>
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<td>Eye Irrit. 2A, H319</td>
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<td>STOT SE 3, H335</td>
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<td>STOT RE 2, H373</td>
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<td>Aquatic Acute 1, H400</td>
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<td>Aquatic Chronic 1, H410</td>
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<td>Acute Tox. 4 (Oral), H302</td>
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<tr>
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<td>STOT SE 2, H371</td>
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<td>0.125 - 0.625</td>
<td>Flam. Liq. 2, H225</td>
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<td>Skin Corr. 1B, H314</td>
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<td>Eye Dam. 1, H318</td>
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<td>Skin Sens. 1, H317</td>
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<td>Repr. 1B, H360</td>
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<td>STOT SE 3, H336</td>
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<td>STOT SE 3, H335</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 1, H370</td>
</tr>
</tbody>
</table>
**Asphalt Emulsifier E**
(CAS-No.) Proprietary
<= 0.5
Skin Corr. 1B, H314
Eye Dam. 1, H318
Skin Sens. 1, H317

**Hydrochloric acid**
(CAS-No.) 7647-01-0
0.2 - 0.5
Met. Corr. 1, H290
Skin Corr. 1A, H314
Eye Dam. 1, H318
STOT SE 3, H335
Aquatic Acute 2, H401

**Proprietary Ingredient F**
(CAS-No.) Proprietary
<= 0.1
Comb. Dust

Full text of H-phrases: see section 16
The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

**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: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Wash contaminated clothing before reuse. Get immediate medical advice/attention.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Causes severe skin burns and eye damage. Causes serious eye damage. Skin sensitization. Suspected of causing cancer. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract.

Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns. May cause an allergic skin reaction.

Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: Suspected of causing cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

**SECTION 5: FIRE-FIGHTING MEASURES**

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

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

Hazardous Combustion Products: Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and unidentified organic and inorganic compounds. If sulfur compounds are present in appreciable amounts, combustion products may include also H2S and SOx (sulfur oxides) or sulfuric acid. Carbon oxides (CO, CO2). Nitrogen oxides.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.
SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray. Avoid all contact with skin, eyes, or clothing.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).


6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

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

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Cautiously neutralize spilled liquid. Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: May release corrosive vapors.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Do not breathe vapors, mist, spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container.

Incompatible Products: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

PA Tack coat.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH TWA (mg/m³)</th>
<th>ACGIH Ceiling (ppm)</th>
<th>ACGIH chemical category</th>
<th>Biological Exposure Indices (BEI)</th>
<th>NIOSH REL (ceiling) (mg/m³)</th>
<th>NIOSH REL (ceiling) (ppm)</th>
<th>NIOSH REL (ceiling) (mg/m³)</th>
<th>NIOSH REL (ceiling) (ppm)</th>
<th>US IDLH (ppm)</th>
<th>OSHA PEL (Ceiling) (mg/m³)</th>
<th>OSHA PEL (Ceiling) (ppm)</th>
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</thead>
<tbody>
<tr>
<td>Asphalt (8052-42-4)</td>
<td></td>
<td>0.5 mg/m³ (fume, inhalable particulate matter)</td>
<td>Not Classifiable as a Human Carcinogen</td>
<td>Fume, coal tar-free</td>
<td>Parameter: 1-Hydroxypyrene with hydrolysis - Medium: urine - Sampling time: end of shift at end of workweek (nonquantitative)</td>
<td>5 mg/m³ (fume)</td>
<td>2 ppm</td>
<td>Not Classifiable as a Human Carcinogen</td>
<td>7 mg/m³</td>
<td>5 ppm</td>
<td>7 mg/m³</td>
</tr>
<tr>
<td>Hydrochloric acid (7647-01-0)</td>
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<td></td>
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</tbody>
</table>

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8.2. Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.


Materials for Protective Clothing: Chemically resistant materials and fabrics. Corrosion-proof clothing.

Hand Protection: Wear protective gloves.

Eye Protection: Chemical safety goggles and face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State: Liquid

Appearance: Black/brown

Odor: Asphalt

Odor Threshold: No data available

pH: 2 - 5

Evaporation Rate: No data available

Melting Point: No data available

Freezing Point: No data available

Boiling Point: 212 °F (100 °C)

Flash Point: No data available

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Flammability (solid, gas): No data available

Vapor Pressure: No data available

Relative Vapor Density at 20°C: No data available

Relative Density: No data available
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Specific Gravity: 0.9 - 1.1
Density: 7.5 - 9.2 lb/gal
Solubility: No data available
Partition Coefficient: N-Octanol/Water: No data available
Viscosity: 20 - 100 SFS

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.
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, and incompatible materials.
10.5. Incompatible Materials: Strong acids, strong bases, strong oxidizers.
10.6. Hazardous Decomposition Products: None expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects
Acute Toxicity: Not classified

Asphalt (8052-42-4)
LD50 Oral Rat > 5000 mg/kg
LD50 Dermal Rabbit > 2000 mg/kg
LC50 Inhalation Rat > 94.4 mg/m³

Hydrochloric acid (7647-01-0)
LD50 Dermal Rabbit > 5010 mg/kg

Asphalt Emulsifier A (Proprietary)
LD50 Oral Rat 3886.9 mg/kg
LD50 Dermal Rat 8635.9 mg/kg
LC50 Inhalation Rat 4.966 mg/l/4h

Asphalt Emulsifier B (Proprietary)
ATE (Dust/Mist) 1.50 mg/l/4h

Asphalt Emulsifier C (Proprietary)
LD50 Oral Rat 1673 mg/kg
LD50 Dermal Rat 11435.6 mg/kg

Asphalt Emulsifier D (Proprietary)
ATE (Oral) 100.00 mg/kg body weight
ATE (Dermal) 300.00 mg/kg body weight
ATE (Dust/Mist) 0.50 mg/l/4h

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.
pH: 2 - 5

Serious Eye Damage/Irritation: Causes serious eye damage.
pH: 2 - 5

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified
Carcinogenicity: Suspected of causing cancer.

Asphalt (8052-42-4)
IARC group 2B
OSHA Hazard Communication Carcinogen List In OSHA Hazard Communication Carcinogen list.

Hydrochloric acid (7647-01-0)
IARC group 3

Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): May cause damage to organs.
Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard: Not classified

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Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract.
Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns. May cause an allergic skin reaction.
Symptoms/Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
Chronic Symptoms: Suspected of causing cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Ecology - General: Toxic to aquatic life with long lasting effects.

| Hydrochloric acid (7647-01-0) | LC50 Fish 1 | 7.45 mg/l (Species: Oncorhynchus mykiss - Exposure time: 96h) |

12.2. Persistence and Degradability
TACK Persistence and Degradability: May cause long-term adverse effects in the environment.

12.3. Bioaccumulative Potential
TACK Bioaccumulative Potential: Not established.

Asphalt (8052-42-4)

| BCF Fish 1 | (no bioaccumulation expected) |
| Log Pow | > 6 |

12.4. Mobility in Soil: No additional information available
12.5. Other Adverse Effects
Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods
Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.
Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Surfactant, Lignin amine)
Hazard Class: 9
Identification Number: UN3082
Label Codes: 9
Packing Group: III
Marine Pollutant: Marine pollutant
ERG Number: 171

14.2. In Accordance with IMDG
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Surfactant, Lignin amine)
Hazard Class: 9
Identification Number: UN3082
Packing Group: III
Label Codes: 9
EmS-No. (Fire): F-A
EmS-No. (Spillage): S-F
Marine Pollutant: Marine pollutant

14.3. In Accordance with IATA
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Surfactant, Lignin amine)
Packing Group: III
Identification Number : UN3082  
Hazard Class : 9  
Label Codes : 9  
ERG Code (IATA) : 9L

SECTION 15: REGULATORY INFORMATION

15.1.    US Federal Regulations

TACK

SARA Section 311/312 Hazard Classes
- Immediate (acute) health hazard
- Delayed (chronic) health hazard

Asphalt (8052-42-4)
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

Hydrochloric acid (7647-01-0)
- Listed on the United States TSCA (Toxic Substances Control Act) inventory
- Listed on the United States SARA Section 302
- Subject to reporting requirements of United States SARA Section 313

CERCLA RQ : 5000 lb

SARA Section 302 Threshold Planning Quantity (TPQ) : 500 lb (gas only)

SARA Section 313 - Emission Reporting : 1 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)

Water (7732-18-5)
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

Proprietary Ingredient F (Proprietary)
- Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag : XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

15.2.    US State Regulations

Asphalt Emulsifier A (Proprietary)

U.S. - California - Proposition 65 - Carcinogens List : WARNING: This product contains chemicals known to the State of California to cause cancer.

U.S. - California - Proposition 65 - Reproductive Toxicity - Female : WARNING: This product contains chemicals known to the State of California to cause (Female) reproductive harm.

U.S. - California - Proposition 65 - Reproductive Toxicity - Male : WARNING: This product contains chemicals known to the State of California to cause (Male) reproductive harm.

Asphalt (8052-42-4)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Hydrochloric acid (7647-01-0)

U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 04/19/2017

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
- The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

GHS Full Text Phrases:
- Acute Tox. 3 (Dermal)
- Acute toxicity (dermal) Category 3
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<table>
<thead>
<tr>
<th>Acute Tox. 3 (Inhalation:dust,mist)</th>
<th>Acute toxicity (inhalation:dust,mist) Category 3</th>
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<tr>
<td>Acute Tox. 3 (Inhalation:vapor)</td>
<td>Acute toxicity (inhalation:vapor) Category 3</td>
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<tr>
<td>Acute Tox. 3 (Oral)</td>
<td>Acute toxicity (oral) Category 3</td>
</tr>
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<td>Acute Tox. 4 (Inhalation:dust,mist)</td>
<td>Acute toxicity (inhalation:dust,mist) Category 4</td>
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<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral) Category 4</td>
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<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 1</td>
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<tr>
<td>Aquatic Acute 2</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 2</td>
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<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 2</td>
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<tr>
<td>Carc. 2</td>
<td>Carcinogenicity Category 2</td>
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<tr>
<td>Comb. Dust</td>
<td>Combustible Dust</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids Category 2</td>
</tr>
<tr>
<td>Met. Corr. 1</td>
<td>Corrosive to metals Category 1</td>
</tr>
<tr>
<td>Repr. 1B</td>
<td>Reproductive toxicity Category 1B</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/irritation Category 1A</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation Category 1B</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Skin sensitization, Category 1</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>Specific target organ toxicity (repeated exposure) Category 2</td>
</tr>
<tr>
<td>STOT SE 1</td>
<td>Specific target organ toxicity (single exposure) Category 1</td>
</tr>
<tr>
<td>STOT SE 2</td>
<td>Specific target organ toxicity (single exposure) Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapor</td>
</tr>
<tr>
<td>H290</td>
<td>May be corrosive to metals</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer</td>
</tr>
<tr>
<td>H360</td>
<td>May damage fertility or the unborn child</td>
</tr>
<tr>
<td>H370</td>
<td>Causes damage to organs</td>
</tr>
<tr>
<td>H371</td>
<td>May cause damage to organs</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

*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.*

SDS US (GHS HazCom)

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