

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** 100, 102, 104, 108 Mold Release  
**Version #** 02  
**Revision date** 11-02-2010  
**Product use** Mold Release.  
**Manufacturer information** TR Industries  
11022 Vulcan Street  
South Gate, CA 90280-0893 United States  
Telephone: (562) 923-5438  
CHEMTREC: (800) 424-9300  
CHEMTREC International: 00 1-703-527-3887

## 2. Hazards Identification

**Physical state** Solid.  
**Appearance** Wax.  
**Emergency overview** WARNING!  
Combustible vapor. May be ignited by heat, sparks or flames.  
  
Causes eye irritation. Harmful: may cause lung damage if swallowed. Vapors may cause drowsiness and dizziness. Prolonged or repeated skin contact may cause drying, cracking, or irritation.  
  
**OSHA regulatory status** This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).  
**Potential health effects**  
**Routes of exposure** Inhalation. Ingestion. Skin contact. Eye contact.  
**Eyes** Causes eye irritation.  
**Skin** Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).  
**Inhalation** In high concentrations, vapors and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.  
**Ingestion** Harmful: may cause lung damage if swallowed. Irritating to mouth, throat, and stomach. Aspiration of this product may cause a pneumonia-like reaction of lung tissue.  
**Chronic effects** Small amounts of benzene may be present. Benzene is listed as a human carcinogen by IARC.  
**Potential environmental effects** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## 3. Composition / Information on Ingredients

| Components             | CAS #      | Percent |
|------------------------|------------|---------|
| Stoddard solvent       | 8052-41-3  | 70 - 80 |
| Carnauba wax           | 8015-86-9  | 10 - 15 |
| Polyalkyl siloxane     | 63148-62-9 | 5 - 10  |
| Polyethylene, oxidized | 68441-17-8 | 1 - 5   |

## 4. First Aid Measures

**First aid procedures**  
**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.  
**Skin contact** Wash skin thoroughly with soap and water. Get medical attention if irritation develops and persists.  
**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention, if needed.

|                           |   |
|---------------------------|---|
| <b>Ingestion</b>          | Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.           |
| <b>Notes to physician</b> | In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.  |
| <b>General advice</b>     | Take off contaminated clothing and shoes immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. |

## 5. Fire Fighting Measures

|  |   |
|--|---|
| <b>Flammable properties</b>                                  | Combustible. Heat may cause the containers to explode.  |
| <b>Extinguishing media</b>                                   |   |
| <b>Suitable extinguishing media</b>                          | Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).   |
| <b>Unsuitable extinguishing media</b>                        | Do not use a solid water stream as it may scatter and spread fire.  |
| <b>Protection of firefighters</b>                            |   |
| <b>Protective equipment and precautions for firefighters</b> | Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.  |
| <b>Fire fighting equipment/instructions</b>                  | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do so without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. |
| <b>Specific methods</b>                                      | In the event of fire and/or explosion do not breathe fumes.   |
| <b>Hazardous combustion products</b>                         | Carbon monoxide. Carbon Dioxide. Silicon oxides.  |

## 6. Accidental Release Measures

|                                  |  |
|----------------------------------|--|
| <b>Personal precautions</b>      | Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.  |
| <b>Environmental precautions</b> | Prevent further leakage or spillage if safe to do so. Do not contaminate water.  |
| <b>Methods for containment</b>   | ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.  |
| <b>Methods for cleaning up</b>   | Small Spills: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste. Should not be released into the environment.<br><br>Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system. |
| <b>Other information</b>         | Clean up in accordance with all applicable regulations.  |

## 7. Handling and Storage

|                 |   |
|-----------------|---|
| <b>Handling</b> | Wear personal protective equipment. Avoid breathing high vapor concentrations. Avoid contact with eyes and prolonged or repeated contact with skin. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. Keep away from sources of ignition - No smoking. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Take precautionary measures against static discharges. When using, do not eat, drink or smoke. |
| <b>Storage</b>  | Keep away from heat, sparks and open flame. Store in cool place. Keep in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.   |

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

| Components                      | Type | Value   |
|---------------------------------|------|---------|
| Stoddard solvent<br>(8052-41-3) | TWA  | 100 ppm |

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components                      | Type | Value                 |
|---------------------------------|------|-----------------------|
| Stoddard solvent<br>(8052-41-3) | PEL  | 500 ppm<br>2900 mg/m3 |

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

| Components                      | Type | Value                |
|---------------------------------|------|----------------------|
| Stoddard solvent<br>(8052-41-3) | TWA  | 100 ppm<br>572 mg/m3 |

#### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

| Components                      | Type | Value     |
|---------------------------------|------|-----------|
| Stoddard solvent<br>(8052-41-3) | STEL | 580 mg/m3 |
|                                 | TWA  | 290 mg/m3 |

#### Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)

| Components                      | Type | Value     |
|---------------------------------|------|-----------|
| Stoddard solvent<br>(8052-41-3) | TWA  | 525 mg/m3 |

#### Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

| Components                      | Type | Value                |
|---------------------------------|------|----------------------|
| Stoddard solvent<br>(8052-41-3) | TWA  | 100 ppm<br>525 mg/m3 |

#### Mexico. Occupational Exposure Limit Values

| Components                      | Type | Value                           |
|---------------------------------|------|---------------------------------|
| Stoddard solvent<br>(8052-41-3) | STEL | 1050 mg/m3                      |
|                                 | TWA  | 200 ppm<br>523 mg/m3<br>100 ppm |

#### Engineering controls

Use explosion-proof ventilation equipment. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

#### Personal protective equipment

##### Eye / face protection

Wear approved safety goggles.

##### Skin protection

Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

##### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

##### General hygiene considerations

Avoid contact with eyes. Avoid contact with skin. When using, do not eat, drink or smoke. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

#### Appearance

Wax.

#### Color

Various.

#### Odor

Hydrocarbon-like.

|  |   |
|--|---|
| Odor threshold                                 | Not available.  |
| Physical state                                 | Solid.  |
| Form   | Wax.  |
| pH   | Not available.  |
| Melting point                                  | Not available.  |
| Freezing point                                 | Not available.  |
| Boiling point                                  | Not available.  |
| Flash point                                    | > 100.4 °F (> 38 °C) Cleveland Closed Cup (Estimated) |
| Evaporation rate                               | Not available.  |
| Flammability limits in air, upper, % by volume | Not available.  |
| Flammability limits in air, lower, % by volume | Not available.  |
| Vapor pressure                                 | Not available.  |
| Vapor density                                  | Not available.  |
| Specific gravity                               | < 1 (Estimated)                                       |
| Solubility (water)                             | Negligible.   |
| Partition coefficient (n-octanol/water)        | Not available.  |
| Auto-ignition temperature                      | Not available.  |
| Decomposition temperature                      | Not available.  |

## 10. Chemical Stability & Reactivity Information

|                                    |  |
|------------------------------------|--|
| Chemical stability                 | Material is stable under normal conditions.          |
| Conditions to avoid                | Heat, flames and sparks.                             |
| Incompatible materials             | Strong oxidizing agents. Strong acids. Strong bases. |
| Hazardous decomposition products   | No hazardous decomposition products are known.       |
| Possibility of hazardous reactions | Hazardous polymerization does not occur.             |

## 11. Toxicological Information

### Toxicological data

| Components  | Test Results  |
|---|---|
| Polyalkyl siloxane (63148-62-9)                               | Acute Dermal LD50 Rabbit: >= 5000 mg/kg<br>Acute Oral LD50 Rat: >= 17000 mg/kg  |
| Acute effects   | May be fatal if swallowed and enters airways.   |
| Local effects   | Causes eye irritation. Prolonged skin contact may cause dermatitis. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.          |
| Sensitization   | May cause allergic skin disorders in sensitive individuals.   |
| Chronic effects   | Prolonged or repeated exposure may cause lung injury.   |
| Carcinogenicity   | The product may contain benzene which may cause cancer and cause blood disorders  |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b> |   |
| Stoddard solvent (CAS 8052-41-3)                              | 3 Not classifiable as to carcinogenicity to humans.   |
| Epidemiology  | Not available.  |
| Mutagenicity  | Not available.  |
| Neurological effects  | High vapor/aerosol concentrations (attainable only at elevated temperatures) may cause central nervous system effects such as dizziness, drowsiness or headaches. |
| Reproductive effects  | Not available.  |
| Teratogenicity  | Not available.  |
| Further information   | Symptoms may be delayed.  |

## 12. Ecological Information

|  |  |
|--|--|
| <b>Ecotoxicity</b>                             | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
| <b>Environmental effects</b>                   | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  |
| <b>Aquatic toxicity</b>                        | This material is not expected to be harmful to aquatic life.   |
| <b>Persistence and degradability</b>           | Not available.   |
| <b>Bioaccumulation / Accumulation</b>          | No data available.   |
| <b>Partition coefficient (n-octanol/water)</b> | Not available.   |
| <b>Mobility in environmental media</b>         | No data available.   |

## 13. Disposal Considerations

|                              |  |
|------------------------------|--|
| <b>Waste codes</b>           | D001: Waste Flammable material with a flash point <140 °F  |
| <b>Disposal instructions</b> | Dispose of contents/container in accordance with local/regional/national/international regulations. This material and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not contaminate ponds, waterways or ditches with chemical or used container. |

## 14. Transport Information

### DOT

#### Basic shipping requirements:

|                             |   |
|-----------------------------|---|
| <b>UN number</b>            | UN3175  |
| <b>Proper shipping name</b> | Solids containing flammable liquid, n.o.s. (Stoddard solvent) |
| <b>Hazard class</b>         | 4.1   |
| <b>Packing group</b>        | II  |
| <b>Labels required</b>      | 4.1   |

#### Additional information:

|                             |                        |
|-----------------------------|------------------------|
| <b>Special provisions</b>   | 47, IB6, IP2, T3, TP33 |
| <b>Packaging exceptions</b> | 151                    |
| <b>Packaging non bulk</b>   | 212                    |
| <b>Packaging bulk</b>       | 240                    |
| <b>ERG number</b>           | 133                    |

### IATA

#### Basic shipping requirements:

|                             |   |
|-----------------------------|---|
| <b>UN number</b>            | 3175  |
| <b>Proper shipping name</b> | Solids containing flammable liquid, n.o.s. (Stoddard solvent) |
| <b>Hazard class</b>         | 4.1   |
| <b>Packing group</b>        | II  |

#### Additional information:

|                 |    |
|-----------------|----|
| <b>ERG code</b> | 3L |
|-----------------|----|

### IMDG

#### Basic shipping requirements:

|                             |   |
|-----------------------------|---|
| <b>UN number</b>            | 3175  |
| <b>Proper shipping name</b> | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Stoddard solvent) |
| <b>Hazard class</b>         | 4.1   |
| <b>Packing group</b>        | II  |
| <b>EmS No.</b>              | F-A, S-I  |

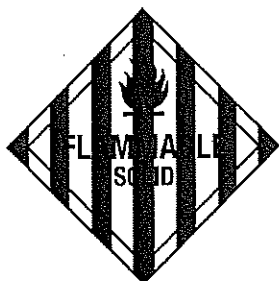
### TDG

#### Basic shipping requirements:

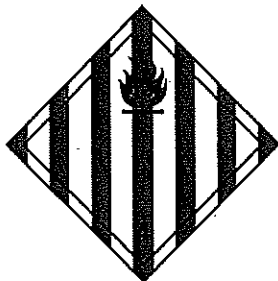
|                             |   |
|-----------------------------|---|
| <b>Proper shipping name</b> | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Stoddard solvent) |
| <b>Hazard class</b>         | 4.1   |
| <b>UN number</b>            | UN3175  |
| <b>Packing group</b>        | II  |
| <b>Marine pollutant</b>     | *   |

Additional information:  
Special provisions

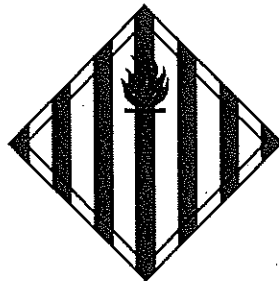
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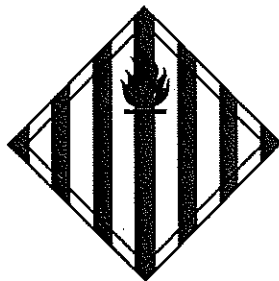
DOT



IATA



IMDG



TDG

## 15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

CERCLA (Superfund) reportable quantity (lbs)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

No

Drug Enforcement Agency (DEA)

Not controlled

Canadian regulations

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status

Controlled

WHMIS classification

B3 - Flammable/Combustible  
D2B - Other Toxic Effects-TOXIC

WHMIS labeling



Inventory status

Country(s) or region

Australia

Canada

Canada

Inventory name

Australian Inventory of Chemical Substances (AICS)

Domestic Substances List (DSL)

Non-Domestic Substances List (NDSL)

On inventory (yes/no)\*

Yes

Yes

No

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US - California Hazardous Substances (Director's): Listed substance**

Stoddard solvent (CAS 8052-41-3) Listed.

**US - Massachusetts RTK - Substance: Listed substance**

Stoddard solvent (CAS 8052-41-3) Listed.

**US - New Jersey RTK - Substances: Listed substance**

Stoddard solvent (CAS 8052-41-3) Listed.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

Stoddard solvent (CAS 8052-41-3) Listed.

**16. Other Information**

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**  
 Health: 2\*  
 Flammability: 3  
 Physical hazard: 0

**NFPA ratings**  
 Health: 2  
 Flammability: 3  
 Instability: 0

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently available.

**Issue date** 11-02-2010

**This data sheet contains changes from the previous version in section(s):**  
 First Aid Measures: Inhalation  
 First Aid Measures: Notes to physician  
 Physical & Chemical Properties: Appearance  
 Physical & Chemical Properties: Color