

## 1. Identification

|   |  |
|---|--|
| <b>Product identifier</b>                                     | <b>SYLVARES™ TP 2040, HOT</b>  |
| <b>Other means of identification</b>                          |  |
| <b>SDS number</b>   | 13684  |
| <b>Product Code</b>   | 200000001621   |
| <b>Recommended use</b>  | Industrial uses: Uses of substances as such or in preparations at industrial sites. Formulation [mixing] of preparations and/or re-packaging (excluding alloys). |
| <b>Recommended restrictions</b>                               | None known.  |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |  |
| <b>Company</b>  | Arizona Chemical Company LLC   |
| <b>Address</b>  | Building 100<br>4600 Touchton Road East, Suite 1200  |
| <b>City/State</b>   | Jacksonville, FL   |
| <b>Zip</b>  | 32246  |
| <b>Country</b>  | USA  |
| <b>Phone Number</b>   | 904-928-8700   |
| <b>Alternate Phone Number</b>                                 | 800-526-5294   |
| <b>Fax Number</b>   | 904-928-8780   |
| <b>Emergency-US</b>   | CHEMTREC 800-424-9300  |

## 2. Hazard(s) identification

|  |   |
|--|---|
| <b>Physical hazards</b>                          | Not classified.   |
| <b>Health hazards</b>                            | Not classified.   |
| <b>OSHA defined hazards</b>                      | Not classified.   |
| <b>Label elements</b>                            |   |
| <b>Hazard symbol</b>                             | None.   |
| <b>Signal word</b>                               | None.   |
| <b>Hazard statement</b>                          | The substance does not meet the criteria for classification.  |
| <b>Precautionary statement</b>                   |   |
| <b>Prevention</b>                                | Observe good industrial hygiene practices.  |
| <b>Response</b>                                  | Wash hands after handling.  |
| <b>Storage</b>                                   | Store away from incompatible materials.   |
| <b>Disposal</b>                                  | Dispose of waste and residues in accordance with local authority requirements.  |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.   |
| <b>Supplemental information</b>                  | Contact with hot material can cause thermal burns which may result in permanent damage. At elevated temperatures, vapor may cause irritation of eyes and respiratory tract. |

## 3. Composition/information on ingredients

### Substances

| Chemical name | Common name and synonyms | CAS number  | %   |
|---------------|--------------------------|-------------|-----|
| Terpene Resin |                          | Proprietary | 100 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.  |
| <b>Skin contact</b>   | If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn. Cool skin rapidly with cold water after contact with molten material. |
| <b>Eye contact</b>  | If hot product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately.  |
| <b>Ingestion</b>  | Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Direct contact with eyes may cause temporary irritation.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.   |
| <b>General information</b>  | Get medical attention if symptoms occur. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.  |

## 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Water fog. Water spray, dry chemical, carbon dioxide.   |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.  |
| <b>Specific hazards arising from the chemical</b>                    | Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.                      |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.   |
| <b>Fire fighting equipment/instructions</b>                          | Wear suitable protective equipment. Extinguish fires started by molten material by using appropriate method for the burning material. |
| <b>Specific methods</b>  | Extinguish fires started by molten material by using appropriate method for the burning material.                                     |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.   |

## 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Avoid inhalation of fumes from molten product. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Avoid contact with hot material. For personal protection, see section 8 of the SDS.  |
| <b>Methods and materials for containment and cleaning up</b>               | <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p> |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.   |

## 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Avoid contact with hot material. Avoid breathing vapor from heated material. Avoid release to the environment. Observe good industrial hygiene practices. Follow all SDS/label precautions even after container is emptied because they may retain product residues. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in original tightly closed container. Keep containers closed when not in use. Store at ambient temperature and atmospheric pressure. Store away from incompatible materials (see Section 10 of the SDS).   |

## 8. Exposure controls/personal protection

|   |   |
|---|---|
| <b>Biological limit values</b>          | No biological exposure limits noted for the ingredient(s).  |
| <b>Appropriate engineering controls</b> | Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. |

## Individual protection measures, such as personal protective equipment

|                               |   |
|-------------------------------|---|
| <b>Eye/face protection</b>    | Wear a face shield when working with molten material. Wear safety glasses with side shields (or goggles).   |
| <b>Skin protection</b>        |   |
| <b>Hand protection</b>        | Wear appropriate chemical resistant gloves. When handling hot material, use heat resistant gloves.  |
| <b>Other</b>                  | For molten product, use any type rubber thermal insulating gloves and other clothing as necessary to protect from thermal burns.  |
| <b>Respiratory protection</b> | If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. |
| <b>Thermal hazards</b>        | Wear appropriate thermal protective clothing, when necessary.   |



## General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Eye wash fountain and emergency showers are recommended.

## 9. Physical and chemical properties

|   |  |
|---|--|
| <b>Appearance</b>                                   | Liquid.                                  |
| <b>Physical state</b>                               | Liquid.                                  |
| <b>Form</b>   | Viscous liquid                           |
| <b>Color</b>  | Light yellow                             |
| <b>Odor</b>   | Mild phenolic                            |
| <b>Odor threshold</b>                               | Not available.                           |
| <b>pH</b>   | Not available.                           |
| <b>Melting point/freezing point</b>                 | Not available.                           |
| <b>Initial boiling point and boiling range</b>      | Not available.                           |
| <b>Flash point</b>                                  | 399.2 °F (204.0 °C) Setaflash Closed Cup |
| <b>Evaporation rate</b>                             | Not available.                           |
| <b>Flammability (solid, gas)</b>                    | Not available.                           |
| <b>Upper/lower flammability or explosive limits</b> |  |
| <b>Flammability limit - lower (%)</b>               | Not available.                           |
| <b>Flammability limit - upper (%)</b>               | Not available.                           |
| <b>Explosive limit - lower (%)</b>                  | Not available.                           |
| <b>Explosive limit - upper (%)</b>                  | Not available.                           |
| <b>Vapor pressure</b>                               | < 0.001 mm Hg at 20°C                    |
| <b>Vapor density</b>                                | Not available.                           |
| <b>Relative density</b>                             | 1.05 at 25°C/25°C (water=1)              |
| <b>Solubility(ies)</b>                              |  |
| <b>Solubility (water)</b>                           | < 0.1 % at 25°C                          |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                           |
| <b>Auto-ignition temperature</b>                    | 460 °C                                   |
| <b>Decomposition temperature</b>                    | Not available.                           |
| <b>Viscosity</b>                                    | 3765 cP Brookfield at 150°C              |

## Other information

|                          |                                   |
|--------------------------|-----------------------------------|
| <b>Chemical family</b>   | Terpene Resin                     |
| <b>Density</b>           | 1050.00 kg/m <sup>3</sup> at 20°C |
| <b>Molecular weight</b>  | 575 - 600                         |
| <b>Percent volatile</b>  | 0 %                               |
| <b>Pounds per gallon</b> | 8.5 lb/gal                        |
| <b>Softening point</b>   | 244.4 °F (118 °C) Ring & Ball     |
| <b>Weighted solids</b>   | 100 %                             |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.   |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.  |
| <b>Conditions to avoid</b>                | Strong oxidizing agents. Contact with incompatible materials.   |
| <b>Incompatible materials</b>             | Strong oxidizing agents.  |
| <b>Hazardous decomposition products</b>   | Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, water and other products of combustion. |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing. |
| <b>Skin contact</b> | Molten material will produce thermal burns.   |
| <b>Eye contact</b>  | Molten material will produce thermal burns. Fumes released during thermal processing may cause eye irritation.  |
| <b>Ingestion</b>    | Expected to be a low ingestion hazard.  |

**Symptoms related to the physical, chemical and toxicological characteristics**  
Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

#### Acute toxicity

| Components          | Species | Test Results |
|---------------------|---------|--------------|
| Terpene Resin       |         |              |
| <b><u>Acute</u></b> |         |              |
| <b>Oral</b>         |         |              |
| <i>Solid</i>        |         |              |
| LD50                | Rat     | > 7000 mg/kg |

\* Estimates for product may be based on additional component data not shown.

|   |  |
|---|--|
| <b>Skin corrosion/irritation</b>                                      | Molten material will produce thermal burns.  |
| <b>Serious eye damage/eye irritation</b>                              | Molten material will produce thermal burns. Fumes released during thermal processing may cause eye irritation.   |
| <b>Respiratory or skin sensitization</b>                              |  |
| <b>Respiratory sensitization</b>                                      | Not available.   |
| <b>Skin sensitization</b>   | This product is not expected to cause skin sensitization.  |
| <b>Germ cell mutagenicity</b>   | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>  | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                  |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>         | Not listed.  |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b> | Not regulated.   |

## US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

|   |  |
|---|--|
| <b>Reproductive toxicity</b>                              | This product is not expected to cause reproductive or developmental effects. |
| <b>Specific target organ toxicity - single exposure</b>   | Not classified.  |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.  |
| <b>Aspiration hazard</b>                                  | Not available.   |

### 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>Persistence and degradability</b> | No data is available on the degradability of this product.   |
| <b>Bioaccumulative potential</b>     |  |
| <b>Mobility in soil</b>              | No data available.   |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.            |

### 13. Disposal considerations

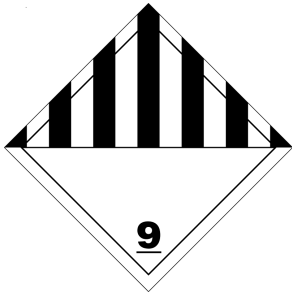
|  |  |
|--|--|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site.   |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.   |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| <b>Contaminated packaging</b>                | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.       |

### 14. Transport information

|                                     |  |
|-------------------------------------|--|
| <b>DOT</b>                          |  |
| <b>UN number</b>                    | UN3257   |
| <b>UN proper shipping name</b>      | Elevated temperature liquid, n.o.s., at or above 100 C and below its flash point (Terpene Resin) |
| <b>Transport hazard class(es)</b>   |  |
| <b>Class</b>                        | 9  |
| <b>Subsidiary risk</b>              | -  |
| <b>Label(s)</b>                     | 9  |
| <b>Packing group</b>                | III  |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling.                          |
| <b>Special provisions</b>           | IB1, T3, TP3, TP29   |
| <b>Packaging exceptions</b>         | None   |
| <b>Packaging non bulk</b>           | None   |
| <b>Packaging bulk</b>               | 247  |
| <b>IATA</b>                         |  |
| <b>UN number</b>                    | UN3257   |
| <b>UN proper shipping name</b>      | Elevated temperature liquid, n.o.s. at or above 100°C and below its flash point (Terpene Resin)  |
| <b>Transport hazard class(es)</b>   |  |
| <b>Class</b>                        | 9  |
| <b>Subsidiary risk</b>              | -  |
| <b>Packing group</b>                | Not applicable.  |
| <b>Environmental hazards</b>        | No.  |
| <b>ERG Code</b>                     | 9L   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling.                          |
| <b>Other information</b>            |  |
| <b>Passenger and cargo aircraft</b> | Forbidden  |
| <b>Cargo aircraft only</b>          | Forbidden  |

**IMDG**

**UN number** UN3257  
**UN proper shipping name** ELEVATED TEMPERATURE LIQUID, N.O.S. at or above 100°C and below its flashpoint (Terpene Resin)  
**Transport hazard class(es)**  
**Class** 9  
**Subsidiary risk** -  
**Packing group** III  
**Environmental hazards**  
**Marine pollutant** No.  
**EmS** F-A, S-P  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**DOT; IATA; IMDG****15. Regulatory information**

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - No  
 Delayed Hazard - No  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**NFPA ratings**

Health: 1  
Flammability: 1  
Instability: 0

**NFPA ratings****16. Other information, including date of preparation or last revision**

**Issue date** 02-23-2015

**Revision date** 02-15-2017

**Version #** 2.0

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**Revision information**

Toxicological information: Acute toxicity

Ecological information: Mobility

Regulatory Information: United States