



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** LPS® Tapmatic® Edge Creme  
**Version #** 01  
**Issue date** 09-05-2013  
**CAS #** Mixture  
**Part Number** 43100, C43100  
**Product use** A metal-cutting fluid designed for cutting and forming applications.  
**Manufacturer information** LPS Laboratories, a division of Illinois Tool Works  
4647 Hugh Howell Rd  
Tucker, Georgia 30084 United States  
www.lpslabs.com  
1-800-241-8334/ 770-243-8800  
Chemtrec 1-800-424-9300

## 2. Hazards Identification

**Emergency overview** WARNING  
Causes eye irritation.

**Potential health effects**  
**Routes of exposure** Eye contact. Skin contact. Ingestion. Inhalation.  
**Eyes** Avoid contact with eyes. May irritate eyes.  
**Skin** Avoid contact with the skin. May cause skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.  
**Inhalation** Do not breathe dust/fume/gas/mist/vapors/spray. May cause irritation of respiratory tract.  
**Ingestion** Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Signs and symptoms** Irritant effects. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**Potential environmental effects** Ecological injuries are not known or expected under normal use.

## 3. Composition / Information on Ingredients

| Hazardous components                     | CAS #       | Percent  |
|--|-------------|----------|
| Cetyl Alcohol                            | 36653-82-4  | 5 - 10   |
| Arachidyl Alcohol                        | 629-96-9    | 1 - 5    |
| MYRISTIC ALCOHOL                         | 112-72-1    | 1 - 5    |
| Non-hazardous components                 | CAS #       | Percent  |
| Alcohols, C10-16,ethoxylated             | 68002-97-1  | 10 - 30  |
| SILICA, AMORPHOUS, FUMED                 | 112945-52-5 | 1 - 5    |
| Other components below reportable levels |             | 60 - 100 |

## 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. Get medical attention if irritation develops and persists.  
**Skin contact** Wash off immediately with plenty of water. Get medical attention if irritation develops and persists.  
**Inhalation** Under normal conditions of intended use, this material is not expected to be an inhalation hazard. If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If symptoms persist, get medical attention.  
**Ingestion** In the unlikely event of swallowing contact a physician or poison control center.

**Notes to physician** Provide general supportive measures and treat symptomatically.

**General advice** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of shortness of breath, give oxygen. Keep victim under observation.

## 5. Fire Fighting Measures

**Flammable properties** Not flammable by WHMIS criteria.

**Extinguishing media**

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Protection of firefighters**

**Protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions**

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

**Explosion data**

**Sensitivity to static discharge** None known.

**Sensitivity to mechanical impact** None known.

**Hazardous combustion products** May include oxides of carbon.

## 6. Accidental Release Measures

**Personal precautions** Keep unnecessary personnel away. Keep out of low areas. Keep upwind. Ventilate closed spaces before entering them. For personal protection, see section 8 of the MSDS.

**Methods for cleaning up** Prevent product from entering drains. Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Small Dry Spills: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Following product recovery, flush area with water. For waste disposal, see section 13 of the MSDS.

## 7. Handling and Storage

**Handling**

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure. Do not get this material on clothing. Do not use in areas without adequate ventilation. Wear personal protective equipment. Observe good industrial hygiene practices. Wash thoroughly after handling. Use care in handling/storage.

**Storage**

Keep tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Use care in handling/storage.

## 8. Exposure Controls / Personal Protection

**Occupational exposure limits**

**US. OSHA Table Z-3 (29 CFR 1910.1000)**

**Components**

**Type**

**Value**

Synthetic Amorphous Silica  
(CAS 112945-52-5)

TWA

0.8 mg/m<sup>3</sup>

20 millions of  
particle

**Engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye / face protection**

If contact is likely, safety glasses with side shields are recommended. Eye wash fountain is recommended.

**Skin protection**

Avoid contact with the skin. Avoid contact with clothing. Normal work clothing (long sleeved shirts and long pants) is recommended. Chemical resistant gloves.

**Respiratory protection**

No personal respiratory protective equipment normally required.

## 9. Physical & Chemical Properties

**Appearance** Viscous. Paste.

**Physical state** Solid.

|   |  |
|---|--|
| <b>Form</b>   | Solid. Viscous. Paste.                                 |
| <b>Color</b>  | Opaque.  |
| <b>Odor</b>   | Slight. Soapy.   |
| <b>Odor threshold</b>                                 | Not established  |
| <b>pH</b>   | 5.5 - 6.5  |
| <b>Vapor pressure</b>                                 | Not established  |
| <b>Vapor density</b>                                  | Not established  |
| <b>Boiling point</b>                                  | 631.4 °F (333 °C) (estimated)                          |
| <b>Melting point/Freezing point</b>                   | Not established  |
| <b>Solubility (water)</b>                             | Emulsifies   |
| <b>Specific gravity</b>                               | 0.87 - 0.89 @ 20°C                                     |
| <b>Relative density</b>                               | Not established  |
| <b>Flash point</b>                                    | > 199.40 °F (> 93.00 °C) Tag Closed Cup                |
| <b>Flammability limits in air, upper, % by volume</b> | Not established  |
| <b>Flammability limits in air, lower, % by volume</b> | Not established  |
| <b>Auto-ignition temperature</b>                      | Not established  |
| <b>VOC</b>  | 0 % per State and Federal Consumer Product Regulations |
| <b>Evaporation rate</b>                               | Not established  |
| <b>Viscosity</b>                                      | Not established  |
| <b>Percent volatile</b>                               | 15 - 16 %  |
| <b>Partition coefficient (n-octanol/water)</b>        | Not established  |
| <b>Other data</b>                                     |  |
| <b>Decomposition temperature</b>                      | Not established  |
| <b>Explosive limit - lower (%)</b>                    | Not established  |
| <b>Explosive limit - upper (%)</b>                    | Not established  |
| <b>Flammability</b>                                   | Not established  |
| <b>Flammability (flash back)</b>                      | Not established  |
| <b>Heat of combustion</b>                             | Not established  |

## 10. Chemical Stability & Reactivity Information

|   |   |
|---|---|
| <b>Chemical stability</b>                 | Material is stable under normal conditions. |
| <b>Conditions to avoid</b>                | None under normal conditions.               |
| <b>Incompatible materials</b>             | Strong oxidizing agents.                    |
| <b>Hazardous decomposition products</b>   | Carbon oxides.                              |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.    |

## 11. Toxicological Information

|                        |  |
|------------------------|--|
| <b>Acute effects</b>   | Based on available data, the classification criteria are not met.  |
| <b>Local effects</b>   | May irritate eyes and skin.  |
| <b>Chronic effects</b> | Prolonged or repeated contact may cause drying, cracking, or irritation.   |
| <b>Carcinogenicity</b> | Based on available data, the classification criteria are not met.  |
| <b>Mutagenicity</b>    | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |

|                             |   |
|-----------------------------|---|
| <b>Reproductive effects</b> | Based on available data, the classification criteria are not met. |
| <b>Further information</b>  | This product has no known adverse effect on human health.         |

## 12. Ecological Information

|                                      |   |
|--------------------------------------|---|
| <b>Ecotoxicity</b>                   | Not expected to be harmful to aquatic organisms.                |
| <b>Environmental effects</b>         | Ecological injuries are not known or expected under normal use. |
| <b>Persistence and degradability</b> | Expected to biodegrade.   |
| <b>Partition coefficient</b>         |   |
| MYRISTIC ALCOHOL                     | 6.03  |

## 13. Disposal Considerations

|  |   |
|--|---|
| <b>Disposal instructions</b>                 | This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. |
| <b>Waste from residues / unused products</b> | Avoid discharge into water courses or onto the ground. 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>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.  |

## 14. Transport Information

|                |   |
|----------------|---|
| <b>TDG</b>     | Not regulated as dangerous goods.                             |
| <b>IATA</b>    | Not regulated as dangerous goods.                             |
| <b>IMDG</b>    | Not regulated as dangerous goods.                             |
| <b>General</b> | This material is not regulated by any mode of transportation. |

## 15. Regulatory Information

|                             |   |
|-----------------------------|---|
| <b>Canadian regulations</b> | 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. |
| <b>WHMIS status</b>         | Controlled  |
| <b>WHMIS classification</b> | D2B - Other Toxic Effects-TOXIC   |
| <b>WHMIS labeling</b>       |   |



### Inventory status

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada               | Domestic Substances List (DSL)   | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)                                    | 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)               | Yes                    |
| Korea                | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand          | New Zealand Inventory  | Yes                    |
| Philippines          | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes                    |

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).  
 A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other Information

### NFPA ratings

Health: 1  
 Flammability: 1  
 Instability: 0

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.