# SAFETY DATA SHEET

**Preparation Date:** 03/17/2015 **Revision Date:** 6/05/2018 **Revision Number:** G2

## 1. IDENTIFICATION

**Product identifier**

**Product code:** TR106
**Product Name:** TRIACETIN, USP

**Other means of identification**
**Synonyms:** Glyceryl triacetate; Glycerol Triacetate; Glycerin Triacetate; Triacetyl glycerine
**CAS #:** 102-76-1
**RTECS #** AK3675000
**CI#:** Not available

**Recommended use of the chemical and restrictions on use**
**Recommended use:** No information available.
**Uses advised against** No information available

**Supplier:**
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

**Order Online At:** https://www.spectrumchemical.com
**Emergency telephone number** Chemtrec 1-800-424-9300
**Contact Person:** Martin LaBenz (West Coast)
**Contact Person:** Ibad Tirmiz (East Coast)

## 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is not considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Label elements**

**Not classified**

**Hazards not otherwise classified (HNOC)**
Not Applicable

**Other hazards**
May be harmful if swallowed

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Weight % |
|---|---|---|
| Triacetin | 102-76-1 | 100 |

## 4. FIRST AID MEASURES

**First aid measures**

**General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Health injuries are not known or expected under normal use

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

## 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Carbon dioxide ($CO_2$). Dry chemical. Water spray mist or foam.

**Unsuitable Extinguishing Media:** No information available.

### Specific hazards arising from the chemical

**Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide.

**Specific hazards:** May be combustible at high temperatures. May be ignited by heat, sparks or flames.

### Special Protective Actions for Firefighters

**Specific Methods:** No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up** Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Technical Measures/Precautions:**
Provide sufficient air exchange and/or exhaust in work rooms. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

**Safe Handling Advice**
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

**Incompatible Materials:**
Oxidizing agents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**National occupational exposure limits**

**United States**

| Components | CAS-No. | OSHA | NIOSH | ACGIH | AIHA WEEL |
|---|---|---|---|---|---|
| Triacetin | 102-76-1 | None | None | None | None |

**Canada**

| Components | CAS-No. | Canada - Alberta | Canada - British Columbia | Canada - Ontario | Canada - Quebec |
|---|---|---|---|---|---|
| Triacetin | 102-76-1 | None | None | None | None |

**Australia and Mexico**

| Components | CAS-No. | Australia | Mexico |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Triacetin | 102-76-1 | None | None |

**Appropriate engineering controls**

**Engineering measures to reduce exposure:** Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

**Eye protection:** Goggles

**Skin and body protection:** Chemical resistant apron
Gloves
Long sleeved clothing

**Respiratory protection:** Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**
Liquid

**Appearance:**
No information available.

**Color:**
No information available.

**Odor:**
Fruity. Fatty.

**Taste**
Mild. Sweet. Bitter.

**Formula:**
C9H14O6

**Molecular/Formula weight:**
218.21

**Flammability:**
No information available

**Flashpoint (°C/°F):**
138°C/280.4°F

**Flash Point Tested according to:**
Closed cup

**Autoignition Temperature (°C/°F):**
430°-433°C/806°-811.4°F

**Lower Explosion Limit (%):**
1

**Upper Explosion Limit (%):**
No information available

**Melting point/range(°C/°F):**
No information available

**Decomposition temperature(°C/°F):**
No information available

**Boiling point/range(°C/°F):**
258°-259°C/496.4°-498.2°F

**Bulk density:**
No information available

**Density (g/cm3):**
No information available

**Specific gravity:**
1.1562

**pH:**
No information available

**Vapor pressure @ 20°C (kPa):**
0

**Evaporation rate:**
No information available

**Vapor density:**
7.52

**VOC content (g/L):**
No information available

**Odor threshold (ppm):**
No information available

**Partition coefficient (n-octanol/water):**
0.3

**Viscosity:**
No information available

**Miscibility:**
Miscible with Chloroform

**Solubility:**
Soluble in Acetone
Soluble in cold water
Soluble in diethyl ether
Slightly soluble in alcohol
Slightly soluble in Benzene
Slightly soluble in Carbon Disulfide
Slightly soluble in Carbon Tetrachloride

## 10. STABILITY AND REACTIVITY

**Reactivity**
Reactive with oxidizing agents

**Chemical stability**

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

**Incompatible Materials:** Oxidizing agents

**Hazardous decomposition products:** Carbon oxides.

**Other Information**
**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Principal Routes of Exposure:**
Eyes. Ingestion.

**Acute Toxicity**

**Component Information**

| Triacetin | |
|---|---|
| CAS-No. | 102-76-1 |

**LD50/oral/rat =** 3 g/kg Oral LD50 Rat
**LD50/oral/mouse =** 1100 mg/kg Oral LD50 Mouse
**LD50/dermal/rabbit =** >2000 mg/kg Dermal LD50Rabbit
**LD50/dermal/rat =** No information available
**LC50/inhalation/rat =** 1721 mg/L Inhalation LC50 Rat 4 h
**LC50/inhalation/mouse =** No information available
**Other LD50 or LC50information =** No information available

**Product Information**

**LD50/oral/rat =**
**VALUE- Acute Tox Oral =** 3000 mg/kg

**LD50/oral/mouse =**
**Value - Acute Tox Oral =** 1100 mg/kg

**LD50/dermal/rabbit**
**VALUE-Acute Tox Dermal =** > 2000 mg/kg

**LD50/dermal/rat**
**VALUE -Acute Tox Dermal =** No information available

**LC50/inhalation/rat**
**VALUE-Vapor =** 1721 mg/l (4-hr)
**VALUE-Gas =** No information available
**VALUE-Dust/Mist =** No information available

**LC50/Inhalation/mouse**
**VALUE-Vapor =** No information available
**VALUE - Gas =** No information available
**VALUE - Dust/Mist =** No information available

**Symptoms**

**Skin Contact:** May cause skin irritation. It may be mildly to moderately irritating in sensitive individuals.

**Eye Contact:** Causes mild to moderate eye irritation with burning sensation or pain, and redness of the conjunctiva, but not injury. Conjunctival reactions are mild to moderate and disappear within 6 to 24 hours. No reactions on the cornea and iris.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** May affect behavior/central nervous system/nervous system(somnolence, convulsions, stiffness), spastic paralysis, respiration (difficulty breathing, respiratory depression).

**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic.

| Components | CAS-No. | IARC | ACGIH - Carcinogens | NTP | OSHA HCS - Carcinogens | Australia - Notifiable Carcinogenic Substances | Australia - Prohibited Carcinogenic Substances |
|---|---|---|---|---|---|---|---|
| Triacetin | 102-76-1 | Not listed | Not listed | Not listed | Not listed | Not listed | Not listed |

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available
**Developmental Effects:** No information available
**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.
**STOT - repeated exposure** No information available.
**Target Organs:** No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Ecotoxicity effects:** Aquatic environment.

*Triacetin - 102-76-1*
**Freshwater Fish Species Data:** 170 mg/L LC50 Leuciscus idus 48 h static 1
**Water Flea Data:** 380 mg/L EC50 Daphnia magna 48 h

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

**Waste from residues / unused products:**
Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**
Empty containers should be taken for local recycling, recovery or waste disposal

| Components | CAS-No. | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|---|---|---|---|---|---|
| Triacetin | 102-76-1 | None | None | None | None |

## 14. TRANSPORT INFORMATION

**DOT**
**UN-No:** Not Regulated
**Proper Shipping Name:** No information available
**Hazard Class:** No information available
**Subsidiary Class** No information available
**Packing group:** No information available
**Emergency Response Guide Number** No information available
**Marine Pollutant** No data available
**DOT RQ (lbs):** No information available
**Special Provisions** No Information available
**Symbol(s):** No information available
**Description:** No information available

**TDG (Canada)**

| | |
|---|---|
| **UN-No:** | Not Regulated |
| **Proper Shipping Name:** | No information available |
| **Hazard Class:** | No information available |
| **Subsidiary Risk:** | No information available |
| **Packing Group:** | No information available |
| **Marine Pollutant** | No Information available |
| **Description:** | No information available |

**ADR**

| | |
|---|---|
| **UN-No:** | Not Regulated |
| **Proper Shipping Name:** | No information available |
| **Hazard Class:** | No information available |
| **Packing Group:** | No information available |
| **Subsidiary Risk:** | No information available |

**IMO / IMDG**

| | |
|---|---|
| **UN-No:** | Not Regulated |
| **Proper Shipping Name:** | No information available |
| **Hazard Class:** | No information available |
| **Subsidiary Risk:** | No information available |
| **Packing Group:** | No information available |
| **Marine Pollutant** | No information available |

**RID**

| | |
|---|---|
| **UN-No:** | Not Regulated |
| **Proper Shipping Name:** | No information available |
| **Hazard Class:** | No information available |
| **Subsidiary Risk:** | No information available |
| **Packing Group:** | No information available |

**ICAO**

| | |
|---|---|
| **UN-No:** | Not Regulated |
| **Proper Shipping Name:** | No information available |
| **Hazard Class:** | No information available |
| **Subsidiary Risk:** | No information available |
| **Packing Group:** | No information available |

**IATA**

| | |
|---|---|
| **UN-No:** | Not Regulated |
| **Proper Shipping Name:** | No information available |
| **Hazard Class:** | No information available |
| **Subsidiary Risk:** | No information available |
| **Packing Group:** | No information available |
| **ERG Code:** | No information available |
| **Special Provisions** | No information available |

## 15. REGULATORY INFORMATION

**International Inventories**

| Components | CAS-No. | U.S. TSCA | KOREA KECL | Philippines (PICCS) | Japan ENCS | CHINA | Australia (AICS) | EINECS-No. |
|---|---|---|---|---|---|---|---|---|
| *Triacetin* | 102-76-1 | Present(ACTIVE) | Present KE-29332 | Present | Present (2)-753 (2)-666 | Present | Present | Present 203-051-9 |

**U.S. Regulations**

*Triacetin*

**FDA - Food Additives Generally Recognized as Safe (GRAS):** 21 CFR 184.1901

**FDA - 21 CFR - Total Food Additives** 175.300 175.320 181.27 184.1901

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Components | CAS-No. | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|---|---|---|---|---|---|
| Triacetin | 102-76-1 | Not Listed | Not Listed | Not Listed | Not Listed |

**CERCLA/SARA**

| Components | CAS-No. | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting de minimis |
|---|---|---|---|---|---|---|
| *Triacetin* | 102-76-1 | None | None | None | None | None |

**U.S. TSCA**

| Components | CAS-No. | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|---|---|---|---|
| Triacetin | 102-76-1 | Not Applicable | Not Applicable |

## Canada

**WHIMIS 2015 - GHS Classifications**

WHMIS 2015 Hazard Classification Information: Not a dangerous product according to HPR classification criteria.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

**WHMIS 1988 Hazard Class**

Non-controlled

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

**Inventory**

| Components | CAS-No. | Canada (DSL) | Canada (NDSL) |
|---|---|---|---|
| Triacetin | 102-76-1 | Present | Not Listed |

| Components | CAS-No. | CEPA Schedule I - Toxic Substances |
|---|---|---|
| Triacetin | 102-76-1 | Not listed |
| Components | CAS-No. | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
| Triacetin | 102-76-1 | Not listed |

**EU Classification**

**EU GHS - SV - CLP 1272/2008**

| Components | CAS-No. | EU GHS - SV - CLP (1272/2008) |
|---|---|---|
| Triacetin | 102-76-1 | |

**EU - CLP (1272/2008)**

**R-phrase(s)**
not determined (not applicable)

**S -phrase(s)**
none

| Components | CAS-No. | **Classification** | **Concentration Limits:** | **Safety Phrases** |
|---|---|---|---|---|
| Triacetin | 102-76-1 | | No information | |

**The product is classified in accordance with Annex VI to Directive 67/548/EEC**

**Indication of danger:**
None.

## 16. OTHER INFORMATION

**Preparation Date:** 03/17/2015
**Revision Date:** 6/05/2018
**Prepared by:** Sonia Owen

**Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**