

## 1. Identification

|                                                        |                                                              |                 |
|--------------------------------------------------------|--------------------------------------------------------------|-----------------|
| Product identifier                                     | CLARINOL G-80 KOSHER                                         |                 |
| Other means of identification                          |                                                              |                 |
| SDS number                                             | 8230                                                         |                 |
| Product code                                           | 7590                                                         |                 |
| Synonyms                                               | Conjugated triglyceride of vegetable origin                  |                 |
| Recommended use                                        | Food additive                                                |                 |
| Recommended restrictions                               | None known.                                                  |                 |
| Manufacturer/Importer/Supplier/Distributor information |                                                              |                 |
| Manufacturer                                           |                                                              |                 |
| Company name                                           | Stepan Specialty Products, LLC                               |                 |
| Address                                                | 100 West Hunter Avenue<br>Maywood, NJ 07607<br>United States |                 |
| Telephone                                              | General (U.S.)                                               | 1-847-446-7500  |
| E-mail                                                 | Not available.                                               |                 |
| Emergency phone number                                 | Medical                                                      | 1-800-228-5635  |
|                                                        | Chemtrec                                                     | 1-800-424-9300  |
|                                                        | Chemtrec Int'l                                               | +1 703-527-3887 |

## 2. Hazard(s) identification

|                                                  |                                                                                |
|--------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Physical hazards</b>                          | Not classified.                                                                |
| <b>Health hazards</b>                            | Not classified.                                                                |
| <b>Environmental 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 mixture 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>                  | Not applicable.                                                                |

## 3. Composition/information on ingredients

| <b>Mixtures</b>                                                                      |                                 |                   |          |
|--------------------------------------------------------------------------------------|---------------------------------|-------------------|----------|
| <b>Chemical name</b>                                                                 | <b>Common name and synonyms</b> | <b>CAS number</b> | <b>%</b> |
| Conjugated linoleoyl triglyceride containing mainly (c-9, t-11) and (t-10, c-12) CLA |                                 | 303101-61-3       |          |

## 4. First-aid measures

|                     |                                                                                          |
|---------------------|------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Move to fresh air. Call a physician if symptoms develop or persist.                      |
| <b>Skin contact</b> | Wash off with soap and water. Get medical attention if irritation develops and persists. |

|                                                                               |                                                                                                                  |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>                                                            | Rinse with water. Get medical attention if irritation develops and persists.                                     |
| <b>Ingestion</b>                                                              | Rinse mouth thoroughly. Drink a few glasses of water or milk.                                                    |
| <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>                                                    | 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. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).                                                   |
| <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>                    | Development of hazardous combustion gases or vapours possible in the event of a fire. The following may develop: Acrolein. |
| <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>                          | Move containers from fire area if you can do so without risk.                                                              |
| <b>Specific methods</b>                                              | Use standard firefighting procedures and consider the hazards of other involved materials.                                 |
| <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. 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>                                | Observe good industrial hygiene practices.                                                                      |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). |

## 8. Exposure controls/personal protection

|                                                                              |                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Occupational exposure limits</b>                                          | No exposure limits noted for ingredient(s).                                                                                                                                                                           |
| <b>Biological limit values</b>                                               | No biological exposure limits noted for the ingredient(s).                                                                                                                                                            |
| <b>Appropriate engineering controls</b>                                      | Ensure adequate ventilation, especially in confined areas.                                                                                                                                                            |
| <b>Individual protection measures, such as personal protective equipment</b> |                                                                                                                                                                                                                       |
| <b>Eye/face protection</b>                                                   | If contact is likely, safety glasses with side shields are recommended.                                                                                                                                               |
| <b>Skin protection</b>                                                       |                                                                                                                                                                                                                       |
| <b>Hand protection</b>                                                       | For prolonged or repeated skin contact use suitable protective gloves.                                                                                                                                                |
| <b>Other</b>                                                                 | Wear suitable protective clothing. Use impervious gloves.                                                                                                                                                             |
| <b>Respiratory protection</b>                                                | In case of insufficient ventilation, wear suitable respiratory equipment.                                                                                                                                             |
| <b>Thermal hazards</b>                                                       | Wear appropriate thermal protective clothing, when necessary.                                                                                                                                                         |
| <b>General hygiene considerations</b>                                        | 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. |

## 9. Physical and chemical properties

### Appearance

|                                         |                           |
|-----------------------------------------|---------------------------|
| Physical state                          | Liquid.                   |
| Form                                    | Slip melting point = -8 C |
| Color                                   | Colorless.                |
| Odor                                    | Characteristic.           |
| Odor threshold                          | Not available.            |
| pH                                      | Not available.            |
| Melting point/freezing point            | Not available.            |
| Initial boiling point and boiling range | Not available.            |
| Flash point                             | > 356.0 °F (> 180.0 °C)   |
| Evaporation rate                        | Not available.            |
| Flammability (solid, gas)               | Not available.            |

### Upper/lower flammability or explosive limits

|                                |                    |
|--------------------------------|--------------------|
| Flammability limit - lower (%) | Not available.     |
| Flammability limit - upper (%) | Not available.     |
| Explosive limit - lower (%)    | Not available.     |
| Explosive limit - upper (%)    | Not available.     |
| Vapor pressure                 | < 0.1 mbar @ 300C  |
| Vapor density                  | Not available.     |
| Relative density               | Not available.     |
| Solubility(ies)                |                    |
| Solubility (water)             | Not available.     |
| Auto-ignition temperature      | 662 °F (350 °C)    |
| Decomposition temperature      | Not available.     |
| Viscosity                      | Not available.     |
| Other information              |                    |
| Density                        | 880.00 kg/m3 @ 70C |

## 10. Stability and reactivity

|                                    |                                                                                               |
|------------------------------------|-----------------------------------------------------------------------------------------------|
| Reactivity                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability                 | Material is stable under normal conditions.                                                   |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use.                                   |
| Conditions to avoid                | Avoid temperatures exceeding the flash point. Contact with incompatible materials.            |
| Incompatible materials             | Strong oxidizing agents.                                                                      |
| Hazardous decomposition products   | Thermal decomposition can lead to release of irritating gases and vapors.                     |

## 11. Toxicological information

### Information on likely routes of exposure

|              |                                                          |
|--------------|----------------------------------------------------------|
| Inhalation   | No adverse effects due to inhalation are expected.       |
| Skin contact | No adverse effects due to skin contact are expected.     |
| Eye contact  | Direct contact with eyes may cause temporary irritation. |
| Ingestion    | 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

| Product                                                            | Species                                                                                                          | Test Results |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------|
| CLARINOL G-80 KOSHER                                               |                                                                                                                  |              |
| <u>Acute</u>                                                       |                                                                                                                  |              |
| Oral                                                               |                                                                                                                  |              |
| LD50                                                               | Rat                                                                                                              | > 2 g/kg     |
| <u>Chronic</u>                                                     |                                                                                                                  |              |
| NOAEL                                                              | Rat                                                                                                              | 2.5 g/kg     |
| Skin corrosion/irritation                                          | Prolonged skin contact may cause temporary irritation.                                                           |              |
| Serious eye damage/eye irritation                                  | Direct contact with eyes may cause temporary irritation.                                                         |              |
| Respiratory or skin sensitization                                  |                                                                                                                  |              |
| Respiratory sensitization                                          | Not available.                                                                                                   |              |
| Skin sensitization                                                 | This product is not expected to cause skin sensitization.                                                        |              |
| Germ cell mutagenicity                                             | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |              |
| Carcinogenicity                                                    | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                  |              |
| IARC Monographs. Overall Evaluation of Carcinogenicity             |                                                                                                                  |              |
| Not listed.                                                        |                                                                                                                  |              |
| US. National Toxicology Program (NTP) Report on Carcinogens        |                                                                                                                  |              |
| Not listed.                                                        |                                                                                                                  |              |
| US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) |                                                                                                                  |              |
| Not regulated.                                                     |                                                                                                                  |              |
| Reproductive toxicity                                              | This product is not expected to cause reproductive or developmental effects.                                     |              |
| Specific target organ toxicity - single exposure                   | Not applicable.                                                                                                  |              |
| Specific target organ toxicity - repeated exposure                 | Not applicable.                                                                                                  |              |
| Aspiration hazard                                                  | Not applicable.                                                                                                  |              |
| Further information                                                | Information given is based on data obtained from similar substances.                                             |              |

## 12. Ecological information

### Ecotoxicity

| Product                              | Species                                                                                                                                                                                 | Test Results         |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| CLARINOL G-80 KOSHER                 |                                                                                                                                                                                         |                      |
| Other                                | EC50                                                                                                                                                                                    | Micro-organisms      |
|                                      |                                                                                                                                                                                         | > 100 mg/l, 16 hours |
| <b>Aquatic</b>                       |                                                                                                                                                                                         |                      |
| Fish                                 | LC50                                                                                                                                                                                    | Fish                 |
|                                      |                                                                                                                                                                                         | > 100 mg/l, 48 hours |
| <b>Persistence and degradability</b> | Readily biodegradable.                                                                                                                                                                  |                      |
| <b>Bioaccumulative potential</b>     | No data available.                                                                                                                                                                      |                      |
| <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>                 | 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.                                                               |
| <b>Contaminated packaging</b>                | Not available.                                                                                                 |

## 14. Transport information

|                |                                                                                                  |
|----------------|--------------------------------------------------------------------------------------------------|
| <b>General</b> | Transport in combination with Foodstuffs only, avoiding contact with chemicals, dust and aromas. |
|----------------|--------------------------------------------------------------------------------------------------|

Material name: CLARINOL G-80 KOSHER

Material ID: 8230 Product code: 7590 Version #: 02 Revision date: 08-30-2017 Print date: 08-30-2017

SDS US

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**DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

**15. Regulatory information****US federal regulations****CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

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

Not regulated.

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

|                          |                                                                                                                    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Hazard categories</b> | Immediate Hazard - No<br>Delayed Hazard - No<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - No |
|--------------------------|--------------------------------------------------------------------------------------------------------------------|

**SARA 302 Extremely hazardous substance**

Not listed.

|                                        |    |
|----------------------------------------|----|
| <b>SARA 311/312 Hazardous chemical</b> | 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.

|                                       |                |
|---------------------------------------|----------------|
| <b>Safe Drinking Water Act (SDWA)</b> | Not regulated. |
|---------------------------------------|----------------|

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Not listed.

**US state regulations****US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. Massachusetts RTK - Substance List**

Not regulated.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**US. Rhode Island RTK**

Not regulated.

**International Inventories**

| Country(s) or region | Inventory name                                             | On inventory (yes/no)* |
|----------------------|------------------------------------------------------------|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)         | No                     |
| Canada               | Domestic Substances List (DSL)                             | No                     |
| Canada               | Non-Domestic Substances List (NDSL)                        | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC) | No                     |

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

\*A "Yes" indicates that all components of this product comply 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, including date of preparation or last revision

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Issue date</b>           | 02-27-2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Revision date</b>        | 08-30-2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Version #</b>            | 02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Disclaimer</b>           | Terms and Conditions. This SDS is designed only as guidance for the products to which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of merchantability or fitness for particular purpose; or confers any intellectual property rights, including rights to use trademarks or a license to use patents, issued or pending. The information contained herein is based on the manufacturer's own study and the work of others, and is subject to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The receipt and use of this information constitutes consent to these terms and conditions. |
| <b>Revision information</b> | Hazard(s) identification: Response<br>Physical & Chemical Properties: Multiple Properties<br>Transport information: General<br>Regulatory information: California Prop 65<br>Other information, including date of preparation or last revision: Disclaimer<br>HazReg Data: International Inventories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |