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MATERIAL SAFETY DATA SHEET
REVISION DATE: JULY 18, 2011

Section 1 - Identification of the substance / Preparation

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Fairfield, NJ 07004, USA
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Chemtrec Emergency Tel.# 800-424-9300
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*Collect Calls Accepted

Trade name: **SAFFLOWER OIL – HO (“Hi Oleic”)**
Chemical name: Triglycerides
Type of product: Vegetable oil

Section 2 - Composition / Information on ingredients

The product contains the following contents materials in portions of 0.1 mass % or more, which is as malicious or very malicious characterized and/or contents materials in portions of 1 mass % or more, which is as less malicious, corrosive or provocative characterized.

Hazardous Ingredient: NONE
CAS-No.: 8001-23-8
EINECS-No.: 232-276-5

Section 3 - Hazard identification

In the case of intended use there is no cause for an endangerment of the environment and health of humans. With the compressed storage of oil-soaked textiles (e.g. cloth, work clothes in collecting boxes) it can self ignite due to the oxidation of the fatty acids with the atmospheric oxygen and associated rise in temperature. Therefore, collect or store only in fireproof containers.

Section 4 - First aid

Inhalation: At ambient/normal handling temperatures (0-38 deg. C), no adverse effects due to inhalation of vapor are expected.
Skin contact: No adverse effects due to skin contact are expected. Wash with soap and water.
Eye contact: Flush eyes with large amounts of water for several minutes. Seek medical advice in cases of irritation.
Ingestion: No adverse effects due to ingestion are expected.

Section 5 - Fire-fighting measures

Extinguishing media: Foam, dry chemical powder, carbon dioxide.

Fire and explosion hazards: Combustible material, low hazard. The product can form flammable mixtures or can burn only on heating above the flash point. However, minor contamination by hydrocarbons of higher volatility may increase the hazard.

Special fire-fighting procedures: Water fog or spray, to cool fire-exposed surfaces (e.g. containers) and to protect personnel, should only be used by personnel trained in fire fighting. Cut off "fuel"; depending on circumstances, either allow the fire to burn out under controlled conditions or use foam or dry chemical powder to extinguish the fire. Respiratory and eye protection required for fire fighting personnel exposed to fumes or smoke.

Section 6 - Accidental release measures

Personal precautions: See section 8.

Land spill: Shut off source taking normal safety precautions. Prevent liquid from entering sewers, water courses or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation. Take measures to minimize the effects on ground water. Recover by skimming or pumping using explosion-proof equipment, or contain spilled liquid



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Section 6 - Accidental release measures

with booms, sand, or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13.

Water spill: Confine the spill immediately with booms. Warn other shipping. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. Disperse the residue in unconfined waters, if permitted by local authorities and environmental agencies.

Section 7 - Handling and storage

Requirements for storerooms and containers: Penetration of soil to be avoided. Store the product in cool, well ventilated surroundings, well away from sources of ignition. Light protected, at constant temperature, not above room temperature. Provide suitable mechanical equipment for the safe handling of drums and heavy packages. Electrical equipment and fittings must comply with local regulations regarding fire prevention with this class of product.

Fire and explosion protection: Danger of flammability when welding at the empty container/drum etc. Leakage or conditions resulting in impregnation of this oil with some porous materials such as rags, paper, insulation or clay may cause spontaneous combustion. Prevent soaked clothes, rags, paper etc. against self-ignition.

Special precautions: Keep containers closed when not in use. Prevent small spills and leakages to avoid slip hazard.

Section 8 - Exposure controls and personal protection

Occupational exposure limit: No data available.
Personal Protection: In open systems where contact is likely, wear safety glasses with side shields.

Section 9 -Physical and chemical properties

Appearance / odor: Clear, light yellow liquid, neutral/characteristic odor.
Density, g/ml: 0.918 – 0.924 at 20°C
Boiling range: > 350°C
Viscosity: abt. 20 - 30 mPas bei 40°C
Vapor density at 1 bar (Air=1): < 1 mPa at 20°C, < 1 mPa at 100° C
Evaporation rate (n-butyl acetate=1): non-volatile
Solubility in water: negligible
pH: not applicable
Flash point: > 300°C (DGF C-IV 8)
Flammability limits in air, % by VOL: not available
Auto ignition temperature: data not available
Partition coefficient n-octanol/water: data not available

Stability 10 - Stability and reactivity

Stability (thermal, light, etc.): stable
Conditions to avoid: Keep away from heat sources, open flames and other sources of ignition.
Incompatible materials: Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.
Hazardous decomposition products: Product does not decompose at ambient temperature.

Section 11 - Toxicological information

EFFECTS OF OVER EXPOSURE.

Inhalation: No hazard in normal industrial use.



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Section 11 - Toxicological information

Skin contact: No hazard in normal industrial use.
Eye contact: No hazard in normal industrial use..
Ingestion: No hazard in normal industrial use.
TOXICITY DATA:
Acute: No test data are available for this product.
Chronic: No test data are available for this product.

Section 12 - Ecological information

Specific environmental data for this product are not available. This product is expected to be biodegradable.

Section 13 - Disposal consideration

Recommendation: Collect and dispose of waste product at an authorized disposal facility. Product remainders should not penetrate in soil or waters.

Section 14- Transport information

Usual shipping containers: Road tankers, liquid containers, drums
Transport temperature: Not regulated
Transport sea/air: Not regulated
Transport land: Not regulated

Section 15 - Regulatory Information

Not classified according to EEC directives 67/548/EEC and 199/45/EG
Refer to your national legislation implementing the EEC Directive 91/155/EEC.

Section - 16 Other Information

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