

MATERIAL SAFETY DATA SHEET – MSDS

MC 49

Date of issue: July 2023

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

Company name : PRODUCTES QUÍMICS NATURALS S.L.
Address : C/ LLEIDA 1 – P.I. DE LA RIERA DE RIUDEMEIA
: 08317 ÓRRRIUS, SPAIN
Emergency number : +34 93 185 55 00
E-mail : sales@proquinat.com
Name / Commercial Brand : MC 49
Substance name : Glycerides, C16–18 and C18-unsatd.
EC number : 266-948-4
CAS number : 67701-30-8

Type of products covered by this substance identifier:

-Crude (degummed), semi-refined, fully-refined, partially & fully hydrogenated oils, and interesterified oils from the following botanical sources: soybean (from GMO and non-GMO/IP beans), cocoabutter, sunflower (classic and high oleic acid), rapeseed (low erucic acid, high erucic acid and high oleic acid), palm oil, palm stearin, palm (super) olein, linseed, and corn (maize) oil (Mass Balance, Segregated Kosher, Halal).

- Olive oil.

REACH status:

This substance is exempted from Registration according to the following provisions:

- Uses in food and feeding stuffs: Article 2(5)b of Regulation (EC) 1907/2006
- Uses in non-food and non-feed: Article 2(7)a of Regulation (EC) No 1907/2006 (amended by Commission Regulation (EC) 987/2008): substances included in Annex IV, as sufficient information is known about these substances that they are considered to cause minimum risk because of their intrinsic properties.

Relevant identified uses of the substance or mixture and uses advised against:

Identified uses: as food ingredient and feed material, as intermediates for the manufacturing of various products, e.g. emulsifiers and biodiesel, and as constituents in mixtures, e.g. additive carrier and candles.

Uses advised against: none.

2. HAZARDS IDENTIFICATION

This substance is not considered hazardous. It does not meet the criteria for classification according to Dangerous Substances Directive 67/548/EEC and Regulation (EC) 1272/2008 on Classification, Labeling and Packaging of Substances and Mixtures.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Glycerides, C16-18 and C18-unsatd. is a UVCB substance composed predominantly of trialkylglycerides (a glycerol backbone esterified to three fatty acid chains) showing a variation in distribution of carbon chain length of saturated C16-18 as well as unsaturated C18 fatty acids. Other constituents are mono- and di-alkylglycerides, fatty acids, and minor components that are inherently part of the vegetable oil composition.

4. FIRST AID MEASURES

Eye contact: flushing with drinking water is recommended if irritation (temporary redness) occurs. For skin contact, ingestion and inhalation: no particular first aid measures are generally required. Immediate medical attention is normally not needed.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media
- Unsuitable extinguishing media
- Advice for firefighters
- CO₂, sand or extinguishing powder
- Water
- Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures
- Environmental precautions
- Methods and material for containment and cleaning up
- Particular danger of slipping on leaked or spilled product. Safety glasses should be worn if eye contact can be expected.
- Do not allow product to reach soil, sewage systems or any water course.
- Use dry spill kit material or sand to collect spilled product, then place in container for waste.

7. HANDLING AND STORAGE

- Recommended handling practices
- Conditions for safe storage
- Recommended storage temperature
- No special precautions are necessary beyond normal good hygiene practices.
- Liquid-proof separation areas around storage tanks are recommended to avoid leakage into environment.
- Liquid oils: max 30°C Fats: ca 10-15°C above the melting point of the product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Use suitable personal protection measures when handling hot products.

Use appropriate safety glasses in the workplace when exposure to eyes can be expected to occur. If the substance is used for frying purposes, ensure the operation is carried out in open area and/or in area with proper ventilation.

Always observe good personal hygiene measures, such as washing hands after handling the product and before eating and drinking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance (liquid oils or molten fats)
- Appearance (olive oils)

- Appearance (solid fats)
- Odour
- Melting point (solid fats)
- Freezing point (liquid oils)
- Boiling point
- Yellow to amber
- Green-Yellow
- Off-white/yellowish
- Neutral, nutty, typical (olive oil)
- 33 - 65°C
- ca. -38°C
- $\geq 390^{\circ}\text{C}$
- Flash point (crude liquid oils)
- Flash point (refined oils)
- Flammability (solid fats)
- Vapour pressure
- Relative density
- Water solubility
- Auto-ignition temperature
- Viscosity (liquid oils)
- Explosive properties
- Oxidising properties
- $>121^{\circ}\text{C}$
- $\sim 300^{\circ}\text{C}$
- Not flammable
- $<1.33 \times 10^{-8} \text{ Pa}$ ($<1.00 \times 10^{-10}$ mmHg) at 20°C
- 0.92 – 0.95 à 20°C
- Insoluble

- Not auto flammable
- 50 – 65 mPa.s at 20°C
- Not explosive
- Not expected to be oxidising.

10. STABILITY AND REACTIVITY

- Chemical stability and reactivity
- Possibility of hazardous reactions
- This substance is stable and not reactive under normal and foreseeable handling and use conditions.

· Acrolein formation occurs by heating the substance under atmospheric pressure at temperatures over 270°C.

11. TOXICOLOGICAL INFORMATION

This substance has a long history of safe use in wide range of nutritional applications (food and feed) as well as in cosmetics and other industrial applications. It is not expected to induce germ cell mutagenicity, carcinogenicity and reproductive toxicity.

- Skin corrosion/irritation
- Serious eye damage/irritation
- Skin sensitization
- Not irritating
- Minimally irritating
- Not sensitizing

12. ECOLOGICAL INFORMATION

This substance is readily biodegradable.

As such, this substance is not expected to bio-accumulate in aquatic and terrestrial organisms.

13. DISPOSAL CONSIDERATIONS

Do not discharge into drains (sewage system), water courses or onto the ground.

May absorb in dry spill kit or sand and then dispose in licensed special waste site. Incineration in approved installations.

European Waste Codes for unused substance: 02 03 04

14. TRANSPORTATION INFORMATION

This substance is not considered hazardous for transport under ADR/RID, IMDG, IATA.

Disclaimer:

The information contained herein is believed to be true and accurate. However, all statements, recommendations or suggestions are made without any guarantee, representation or warranty, express or implied, on our part. Therefore, no warranty is made or to be implied that the information set out in this document is accurate or complete, and we accordingly exclude all liability in connection with the use of this information or the products referred to herein. All such risks are assumed by the purchaser/user. The information contained herein is also subject to change without notice. For the avoidance of doubt, however, nothing in this document excludes or limits our liability for death or personal injury caused by our negligence or for fraudulent misrepresentation.