



EC- Safety data sheet: raw Lecithin

28.07.2016

in accordance with 1907/2006/EG, last amended 453/2010/EU

1. Identification of the substance / preparation and of the company / undertaking

| | | | |
|-----------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1.1 Product identifier | : | raw lecithin from rapeseedoil, and or sunflowerseedoil vegetable oil and animal feeding stuff, used as fuel, oleochemical usage | |
| 1.2 Relevant identified uses of the substance or mixture and uses advised against | : | foodstuff and animal feeding stuff, used as fuel, oleochemical usage | |
| 1.3. Details of the supplier of the safety data sheet | : | | |
| Manufacturer | : | Bunge Deutschland GmbH | Bunge Austria GmbH |
| Street | : | Bonadiesstraße 3-5 | Industriegelände West 3 |
| Postcode / town | : | D-68169 Mannheim | A-2460 Bruck /Leitha |
| Telephone | : | (+49) 621 3704-0 | (+43) 2162 606-0 |
| Telefax | : | (+49) 621 3704-109 | (+43) 2162 606-93 |
| Person to contact for further information | : | | |
| Quality | : | (+49) 621 3704-300 | (+49) 621 3704-300 |
| Technique | : | (+49) 621 3704-237 | (+43) 2162 606-13 |
| e-mail | : | bea.customeradvise.man@bunge.com | |
| 1.4 Emergency telephone nummer | : | (+49) 621 3704 999 | |

2. Hazards identification

| | | |
|--------------------------------------------------|---|------------------------------------------------------------------------------|
| 2.1. Classifications of the substance or mixture | : | not applicable, foodstuff or animal feeding stuff |
| 2.2. Label elements | : | not applicable |
| 2.3. other hazards : | : | no specific risks, not assessed in accordance with 67/548/EEC and 1999/45/EC |

3. Composition / information on ingredients

| | | |
|-------------------------------------------------|---|-----------------------------------------|
| 3.1. Substances | : | |
| 3.2. Mixture | : | |
| Substance / preparation | : | foodstuff or animal feedingstuff |
| Chemical characterization | : | triglyceride, phosphatide vegetable oil |
| Concentration of the ingredients in the mixture | : | |
| CAS-No. | : | 8002-43-5 |
| Index-No. (67/584/EWG) | : | |
| EINECS | : | 232-307-2 |

4. First aid measures

| | | |
|---------------------------------------------------------------------------------|---|----------------|
| 4.1. Description of the first aid measure | : | not applicable |
| 4.2. Most important symptoms and effects, both akute and delayed | : | not applicable |
| 4.3. Indikation of any immediate medical attention and special treatment needed | : | not applicable |

5. Firefighting measures

| | | |
|-----------------------------------------------------------------------------------------------|---|---------------------------------------------------|
| 5.1 Extinguishing media | : | |
| Suitable extinguishing media | : | foam, CO ₂ , firefighting powder, sand |
| Unsuitable extinguishing media | : | water |
| 5.2. Special hazards arising from the substance combustion product, resulting gases | : | thermal decomposition produces acrolein |
| | : | C ₃ H ₄ O |
| 5.3. Advice for firefighters protective actions special protective equipment for firefighters | : | no special measures required |

6. Accidental release measures

| | | |
|--------------------------------------------------------------------------------------|---|-------------------------------------------------|
| 6.1 Personal precautions, protective equipment and emergency procedures | : | note higher risk of slipping |
| 6.1. For non-emergency personnel | : | |
| a. Suitable protective equipment | : | unnecessary |
| b. Removal of ignition sources, provision of sufficient ventilation, control of dust | : | |
| c. Emergency procedures | : | |
| 6.1.2 For emergency responders | : | |
| 6.2 Environmental precautions | : | keep away from drains, surface and ground water |
| 6.3 Methods and material for containment and cleaning up | : | |
| 6.3.1 Bunding, covering of drains | : | |
| 6.3.2 Appropriate advice for cleaning up | : | |
| 6.4 Reference to other sections | : | not applicable |

7. Handling and storage

| | | |
|------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.1. Precautions for safe handling | | |
| 7.1.1 Recommendations | | |
| a. Safe handling of the substance or mixtures | : | may splash in contact with water when hot |
| b. Prevent handling of incompatible substances or mixtures | : | fire hazard when welding the empty container |
| c. Reduce the release of the substances or mixtures to the environment | : | |
| 7.1.2 General occupational hygiene | : | a. not to eat, drink and smoke in work areas b. to wash hands after use c. to remove contaminated clothing and protective equipment before entering eating areas |
| 7.2. Conditions for safe storage, including any Incompatibilities | : | not applicable |
| a. How to manage risks | : | |
| b. How to control effects | : | |
| c. How to maintain the integrity | : | use of stabilisers and antioxidants |
| d. Other advice | : | |
| d. i. Ventilation requirements | : | |
| d. ii. Specific design for storage rooms or vessels | : | |
| 7.3. Specific end use(s) | : | |

8. Exposure controls/personal protection

| | | |
|---------------------------------------|---|----------------|
| 8.1. Control parameter | | |
| National biological limit values | : | not applicable |
| 8.2 Exposure controls | | |
| 8.2. Appropriate engineering controls | : | not applicable |
| 8.2.2 Individual protection measures | : | unnecessary |
| a. Eye and face protection | : | |
| b. Skin protection | : | |
| b. i Hand protection | : | |
| b. ii Other | : | |
| c. Respiratory protection | : | |
| d. Thermal hazards | : | |
| 8.2.3 Environmental exposure controls | : | not applicable |

9. Physical and chemical prosperities

| 9.1. Information on physical and chemical Prosperities | | Method |
|--------------------------------------------------------|------------------------------------------------------------------------|--------------|
| a. Appearance | : mostly liquid, yellow to dark (according to fatty acid) | |
| b. Odour | : faintly till natural | |
| c. Odour threshold | : | |
| d. pH | : not applicable | |
| e. Melting point | : < 0°C | DGF C-IV 3 a |
| f. Initial boiling pint and boiling range | : not measurable | |
| g. Flash point | : > 200°C | DGF C-IV 8 |
| h. Evaporation rate | : | |
| i. Flammability cloth. | : when finely dispered, e.g. in bleaching earth, insulating materials, | |
| j. Upper/lower flammability or explosive limits | : not applicable | |
| k. Vapour pressure | : < 1 mbar bei 20°C | |
| l. Vapour density | : | |
| m. Relative density | : 800 - 970 kg/m ³ at 40°C | DGF C-IV 2 |
| n. Solubilities | : appr. 200 g/l in water, unlimited in lipophilic solvents | |
| o. Partition coefficient: n-octanol/water | : | |
| p. Auto-ignitio temperature | : | |
| q. Decomposition temperature | : | |
| r. Viscosity | : | |
| s. Explosive properties | : not applicable | |
| t. Oxidising properties | : | |
| 9.2. Other information | : | |

10. Stabilität und Reaktivität

| | | |
|-----------------------------------------|--------------------------------------------------------|--|
| 10.1. Reactivity | : | |
| 10.2. Chemical stability | : | |
| 10.3. Possibility of hazarous reactions | : | |
| 10.4. Conditions to avoid | : nothing specific | |
| 10.5. Incompatible materials | : | |
| 10.6. Hazardous decomposition products | : thermal decomposition leads to formation of Acrolein | |

11. Toxicological information

| | |
|--------------------------------------------|------------------------------------------------|
| 11.1. Information on toxicological effects | : not toxic, foodstuff and animal feedingstuff |
| a. acute toxicity | : |
| b. skin corrosion/irritation | : |
| c. serious eye damage/irritation | : |
| d. respiratory or skin sensitisation | : |
| e. germ cell mutagenicity | : |
| f. carcinogenicity | : |
| g. reproductive toxicity | : |
| h. STOT single exposure | : |
| i. STOT repeated exposure | : |
| j. aspiration hazard | : |

12. Ecological information

| | |
|------------------------------------------|--------------------------------------------------------------|
| 12.1. Toxicity | : foodstuff and animal feedingstuff |
| 12.2. Persistence and degradability | : highly biodegradable, COD/BOD5 approx. 1,5-2,2 average 1,8 |
| 12.3. Bioaccumulative potential | : |
| 12.4. Mobility in soil | : |
| 12.5. Results of PBT and vPvB assessment | : |
| 12.6. Other adverse effects | : |



13. Disposal consideration

| | | |
|----------------------------------|---|----------------------------------------------------------------------------------------|
| 13.1 Waste treatment methods | : | Not hazardous waste. As waste it can be utilised for primary use or thermal recycling. |
| European Waste Catalogue code No | : | 20304 |
| Further information | : | Must be disposed of in accordance with official regulations |

14. Transport information

| | | |
|--------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| General | : | not a dangerous substance, foodstuff and animal feedingstuff |
| 14.1. UN number | : | not applicable |
| 14.2. UN proper shipping name | : | not applicable |
| 14.3. Transport hazard class(es) | : | not applicable |
| 14.4. Packing group | : | not applicable |
| 14.5. Environmental hazards | : | not applicable |
| 14.6. Special precautions for user | : | not applicable |
| 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | : | Guidelines for transport of plant oil in deep tanks or independent tanks which are special made for transports of those plant oils on dry cargo ships |

15. Regulatory information

| | | |
|-----------------------------------------|---|----------------|
| 15.1. Safety, health and environmental- | : | not applicable |
| 15.2. Chemical safety assessment | : | not applicable |

16. Other information

: The information in this data sheet does not constitute any contractual warranty as to product properties and is based on the current state of knowledge.