

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 08/01/2018 Revision date: 04/07/2023 Supersedes: 01/14/2019 Version: 1.3

| | 0 | | Nevision date. 04/07/2025 | Superseues. 01/14/2019 | |
|---------------------------------|---|--|--|----------------------------------|--------------------|
| SECTION 1: | Identification | | | | |
| | fication | | | | |
| Product form | | : Substance | | | |
| Product name | | : TAGETES | | | |
| CAS-No. | | : 8016-84-0 | | | |
| Product code | | : 50-6261-0 | | | |
| | | | | | |
| 1.2. Recor | mmended use and i | restrictions on use | | | |
| 1.3. Suppl | lior | | | | |
| The Lebermuth 4004 Technolog | Company | s | | | |
| | - F 574-258-7450 .com - <u>www.lebermu</u> | <u>ith.com</u> | | | |
| 1.4. Emerg | gency telephone nu | ımber | | | |
| Emergency num | nber | : CHEMTRE CCN 1301 | C - USA: 800-424-9300 Intern | ational: +1 703-527-3887 / 1-8 | 800-424-9300 |
| SECTION 2 | Hazard(s) iden | | | | |
| | ification of the sub | | | | |
| GHS US classif | fication | | | | |
| Flammable liqui | | | mmable liquid and vapor | | |
| | do Odlogoly o | | | | |
| 2.2. GHS I | Label elements. inc | luding precautionary stat | ements | | |
| GHS US labelin | | | | | |
| Hazard pictogra | • | | | | |
| riazaru pictogra | | | | | |
| | | | | | |
| | | <u>C</u> 2 | | | |
| | | | | | |
| | | GHS02 | | | |
| Signal word (GH | IS US) | : Warning | | | |
| Hazard stateme | nts (GHS US) | : Flammable | liquid and vapor | | |
| Precautionary st | tatements (GHS US) | | from heat, hot surfaces, sparks, | open flames and other ignitio | n sources. No |
| | | smoking. Keen cont | iner tightly closed. | | |
| | | | nd container and receiving equip | ment. | |
| | | Use explos | ion-proof electrical/ventilating/light | | |
| | | | on-sparking tools. | -l'a ale anna | |
| | | | utionary measures against static ctive gloves/protective clothing/e | | |
| | | | or hair): Take off immediately all | | skin with |
| | | water/show | ver. | - | |
| | | In case of | ire: Use media other than water t | to extinguish. | |
| | | | vell-ventilated place. Keep cool. | or oppoint wooth and a the stars | int in accordance |
| | | | contents/container to hazardous egional, national and/or internati | | int, in accordance |
| | | ······································ | , | J | |
| | | not result in classificatio | 1 | | |
| | formation available | | | | |
| | own acute toxicity (| (GHS US) | | | |
| Not applicable | | | | | |

SECTION 3: Composition/Information on ingredients

3.1. Substances

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Name | | Product identifier | % | GHS US classification |
|--|---|--|---|-----------------------------------|
| TAGETES OIL | | (CAS-No.) 8016-84-0 | 100 | Flam. Liq. 3, H226 |
| Full text of hazard classes and H-statements : s | ee section 16 | | | |
| 3.2. Mixtures | | | | |
| Not applicable | | | | |
| SECTION 4: First-aid measures | | | | |
| 4.1. Description of first aid measures | | | | |
| First-aid measures after inhalation | : Remove person to fresh a | • | | - |
| First-aid measures after skin contact | : Rinse skin with water/show irritation or rash occurs: G | | | Il contaminated clothing. If skin |
| First-aid measures after eye contact | : Rinse eyes with water as a | • | | |
| First-aid measures after ingestion | : Call a poison center/docto | r/physician if you feel unv | /ell. | |
| 4.2. Most important symptoms and effe | | | | |
| Symptoms/effects after skin contact | : May cause an allergic skir | reaction. | | |
| 4.3. Immediate medical attention and sp | pecial treatment, if necessary | 1 | | |
| Treat symptomatically. | | | | |
| SECTION 5: Fire-fighting measures | | | | |
| 5.1. Suitable (and unsuitable) extinguis | hing media | | | |
| Suitable extinguishing media | : Water spray. Dry powder. | Foam. Carbon dioxide. | | |
| 5.2. Specific hazards arising from the c | hemical | | | |
| Fire hazard | : Flammable liquid and vap | or. | | |
| Reactivity | : Flammable liquid and vap | or. | | |
| 5.3. Special protective equipment and p | precautions for fire-fighters | | | |
| Protection during firefighting | • | | ctive equip | ment. Self-contained breathing |
| | apparatus. Complete prote | ective clothing. | | |
| SECTION 6: Accidental release mea | sures | | | |
| 6.1. Personal precautions, protective ed | quipment and emergency pro | cedures | | |
| 6.1.1. For non-emergency personnel | | | | |
| Emergency procedures | : Ventilate spillage area. No and eyes. Avoid breathing | | | oking. Avoid contact with skin |
| 6.1.2. For emergency responders | | | | |
| Protective equipment | | | | ment. For further information |
| | refer to section 8: "Exposu | ire controls/personal prote | ection". | |
| 5.2. Environmental precautions | | | | |
| Avoid release to the environment. | | | | |
| 5.3. Methods and material for containm | | | | |
| Nethods for cleaning up | : Take up liquid spill into ab waters. | sorbent material. Notify a | uthorities if | product enters sewers or public |
| Other information | : Dispose of materials or so | lid residues at an authoriz | ed site. | |
| 6.4. Reference to other sections | | | | |
| For further information refer to section 13. | | | | |
| SECTION 7: Handling and storage | | | | |
| 7.1. Precautions for safe handling | | | | |
| Precautions for safe handling | flames and other ignition s equipment. Use only non- discharge. Flammable var | ources. No smoking. Gro sparking tools. Take prec pors may accumulate in th I protective equipment. A | und/bond o autionary n e containe | neasures against static |

Safety Data Sheet

| Hygiene measures | : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |
|---|---|
| 7.2. Conditions for safe storage, in | cluding any incompatibilities |
| Technical measures | : Ground/bond container and receiving equipment. |
| Storage conditions | : Store in a well-ventilated place. Keep cool. Keep container tightly closed. |
| SECTION 8: Exposure controls/ | personal protection |
| 8.1. Control parameters | |
| TAGETES OIL (8016-84-0) | |
| No additional information available | |
| 8.2. Appropriate engineering contr | ols |
| Appropriate engineering controls | : Ensure good ventilation of the work station. |
| Environmental exposure controls | : Avoid release to the environment. |
| 8.3. Individual protection measures | s/Personal protective equipment |
| Hand protection: | |
| Protective gloves | |
| Eye protection: | |
| Safety glasses | |
| Skin and body protection: | |
| Wear suitable protective clothing | |
| Respiratory protection: | |
| n case of insufficient ventilation, wear suita respiratory equipment | able |
| | |

SECTION 9: Physical and chemical properties

| 9.1. Information on basic physical and chemical properties | | | | |
|--|--|--|--|--|
| Physical state | : Liquid | | | |
| Color | : YELLOW-ORANGE, ORANGE, REDDISH-ORANGE LIQUID | | | |
| Odor | : RANCID, GREEN, HERBAL, FRUITY ODOR | | | |
| Odor threshold | : No data available | | | |
| pH | : No data available | | | |
| Melting point | : Not applicable | | | |
| Freezing point | : No data available | | | |
| Boiling point | : No data available | | | |
| Flash point | : 48.9 °C | | | |
| Relative evaporation rate (butyl acetate=1) | : No data available | | | |
| Flammability (solid, gas) | : Not applicable. | | | |
| Vapor pressure | : No data available | | | |
| Relative vapor density at 20°C | : No data available | | | |
| Relative density | : 0.878 (0.86 – 0.9) | | | |
| Solubility | : Insoluble. | | | |
| Partition coefficient n-octanol/water (Log Pow) | : No data available | | | |
| | | | | |

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Auto-ignition temperature | | : | No data available | |
|---------------------------|-------------------|---|-------------------|--|
| Decomposition temperature | | : | No data available | |
| Viscosit | y, kinematic | : | No data available | |
| Viscosit | y, dynamic | : | No data available | |
| Explosion limits | | : | No data available | |
| Explosive properties | | : | No data available | |
| Oxidizir | ng properties | : | No data available | |
| 9.2. | Other information | | | |
| | | | | |

Refractive index

: 1.49 (1.48 – 1.5)

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapor.

10.2. Chemical stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified Skin corrosion/irritation : Not classified Serious eye damage/irritation Not classified Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified : Not classified Aspiration hazard Viscosity, kinematic No data available Symptoms/effects after skin contact : May cause an allergic skin reaction.

| SECTI | SECTION 12: Ecological information | | | | |
|----------|------------------------------------|--|--|--|--|
| 12.1. | Toxicity | | | | |
| Ecology | - general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. | | | |
| 12.2. | Persistence and degradability | | | | |
| No addit | ional information available | | | | |
| 12.3. | Bioaccumulative potential | | | | |
| No addit | ional information available | | | | |

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.4. Mobility in soil No additional information available 12.5. Other adverse effects No additional information available SECTION 13: Disposal considerations 13.1. Disposal methods Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

: Flammable vapors may accumulate in the container.

| Additional information | |
|------------------------|--|
| | |

SECTION 14: Transport information

| SECTION 14: Transport information | |
|---|---|
| Department of Transportation (DOT) In accordance with DOT | |
| Transport document description (DOT) | : UN1197 Extracts, flavoring, liquid (Regulated for Bulk only), 3, III |
| UN-No.(DOT) Proper Shipping Name (DOT) | : UN1197 : Extracts, flavoring, liquid (Regulated for Bulk only) |
| Class (DOT) | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 |
| Packing group (DOT) | : III - Minor Danger |
| Hazard labels (DOT) | : 3 - Flammable liquid |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 203 |
| DOT Packaging Bulk (49 CFR 173.xxx) | : 242 |
| DOT Special Provisions (49 CFR 172.102) | B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 150 |
| DOT Quantity Limitations Passenger aircraft/ra (49 CFR 173.27) | il : 60 L |
| DOT Quantity Limitations Cargo aircraft only (4 CFR 175.75) | 9 : 220 L |
| DOT Vessel Stowage Location | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. |
| Emergency Response Guide (ERG) Number | : 127 |
| Other information | : No supplementary information available. |
| Transportation of Dangerous Goods Transport document description (TDG) UN-No. (TDG) Proper Shipping Name (TDG) TDG Primary Hazard Classes | UN1197 EXTRACTS, FLAVOURING, LIQUID (Regulated for Bulk only), 3, III UN1197 EXTRACTS, FLAVOURING, LIQUID 3 - Class 3 - Flammable Liquids |
| | |

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Packing group (TDG) | : III - Minor Danger |
|---|--|
| Explosive Limit and Limited Quantity Index | : 5L |
| Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index | : 60 L |
| Transport by sea | |
| Transport document description (IMDG) | : UN 1197 EXTRACTS, FLAVOURING, LIQUID, 3, III |
| UN-No. (IMDG) | : 1197 |
| Proper Shipping Name (IMDG) | : EXTRACTS, FLAVOURING, LIQUID |
| Class (IMDG) | : 3 - Flammable liquids |
| Packing group (IMDG) | : III - substances presenting low danger |
| Limited quantities (IMDG) | : 5L |
| Air transport | |
| Transport document description (IATA) | : UN 1197 Extracts, liquid, 3, III |
| UN-No. (IATA) | : 1197 |
| Proper Shipping Name (IATA) | : Extracts, liquid |
| Class (IATA) | : 3 - Flammable Liquids |
| Packing group (IATA) | : III - Low danger |

SECTION 15: Regulatory information 15.1. US Federal regulations TAGETES OIL (8016-84-0) Listed on the United States TSCA (Toxic Substances Control Act) inventory

| 15.2. International regulations | |
|---|--|
| CANADA | |
| TAGETES OIL (8016-84-0) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| EU-Regulations No additional information available | |
| National regulations No additional information available | |

15.3. US State regulations

WARNING: This product can expose you to myrcene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

| SEC | SECTION 16: Other information | | |
|---------|-------------------------------|----------------------------|--|
| Revis | ion date | : 04/07/2023 | |
| Full te | Full text of H-phrases: | | |
| | H226 | Flammable liquid and vapor | |
| | | | |

SDS US (GHS HazCom 2012) - Lebermuth

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.