

# SAFETY DATA SHEET

# **FOOD SAFE GREASE**

## **Section 1. Identification**

**Product identifier** : FOOD SAFE GREASE

Other means of : Not available.

identification

**Product type** : Solid. **Product code** : GR231. SDS# 1738

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

**Product use: For** : Industrial applications: Lubricants; grease.

professional use only.

Supplier's details : The Timken Corporation

4500 Mt. Pleasant St. NW

North Canton, OH 44720 U.S.A.

234.262.3000

**Emergency telephone** : INFOTRAC

U.S. and Canada - 800.535.5053 number (with hours of

Outside the U.S. and Canada - +1 352.323.3500 operation)

## Section 2. Hazard identification

Classification of the : Not classified.

substance or mixture **GHS label elements** 

Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements** 

**Prevention** : Not applicable. Response : Not applicable. : Not applicable. **Storage Disposal** : Not applicable.

Supplemental label

elements

: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 31.3%

Other hazards which do not : None known.

result in classification

Validated on 9/21/2016. 1/10

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of : Not available.

identification

#### **CAS** number/other identifiers

| Ingredient name   | % (w/w) | CAS number  |
|---|---------|-------------|
| White mineral oil (petroleum)   | 40-70   | 8042-47-5   |
| zinc oxide  | 7-13    | 1314-13-2   |
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated | 5-10    | 68037-01-4  |
| 1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated            | 5-10    | 163149-28-8 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First-aid measures

#### **Description of necessary first aid measures**

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

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## **Section 5. Fire-fighting measures**

#### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Small spill** 

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### **Precautions for safe handling**

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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## Section 7. Handling and storage

## Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

| Ingredient name               | Exposure limits   |
|-------------------------------|---|
| White mineral oil (petroleum) | CA Alberta Provincial (Canada, 4/2009).  8 hrs OEL: 5 mg/m³ 8 hours. Form: Mist 15 min OEL: 10 mg/m³ 15 minutes. Form: Mist CA British Columbia Provincial (Canada, 5/2015).  TWA: 1 mg/m³ 8 hours. CA Quebec Provincial (Canada, 1/2014).  TWAEV: 5 mg/m³ 8 hours. Form: mist STEV: 10 mg/m³ 15 minutes. Form: mist CA Ontario Provincial (Canada, 7/2015).  TWA: 5 mg/m³ 8 hours. Form: mist STEL: 10 mg/m³ 15 minutes. Form: mist  |
| zinc oxide                    | CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 2 mg/m³ 8 hours. Form: Respirable 15 min OEL: 10 mg/m³ 15 minutes. Form: Respirable CA British Columbia Provincial (Canada, 5/2015). TWA: 2 mg/m³ 8 hours. Form: Respirable STEL: 10 mg/m³ 15 minutes. Form: Respirable CA Ontario Provincial (Canada, 7/2015). TWA: 2 mg/m³ 8 hours. Form: Respirable fraction STEL: 10 mg/m³ 15 minutes. Form: Respirable fraction CA Quebec Provincial (Canada, 1/2014). TWAEV: 5 mg/m³ 8 hours. Form: fume STEV: 10 mg/m³ 15 minutes. Form: fume CA Saskatchewan Provincial (Canada). STEL: 10 mg/m³ 15 minutes. Form: respirable dust and fume TWA: 2 mg/m³ 8 hours. Form: respirable dust and fume |

# Appropriate engineering controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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## Section 8. Exposure controls/personal protection

Eye/face protection : Safety eyewear com

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with

side-shields.

**Skin protection** 

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should

be worn at all times when handling chemical products if a risk assessment indicates

this is necessary.

**Body protection** : Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist

before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a

respiratory protection program to ensure proper fitting, training, and other important

aspects of use.

## Section 9. Physical and chemical properties

**Appearance** 

Physical state : Solid. [grease]

Color : White.

Odor : Mild. Petroleum oil

Odor threshold : Not available.

pH : Not applicable.Melting point : Not available.

Boiling point : Not available.

Flash point : Not available.

Evaporation rate : Not available.

Flammability (solid, gas) : Flammable in the presence of the following materials or conditions: open flames,

sparks and static discharge.

Lower and upper explosive

(flammable) limits

: Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : 0.9 g/cm³

**Solubility** : Insoluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): >0.205 cm²/s (>20.5 cSt)

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## Section 10. Stability and reactivity

Reactivity

No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** 

: The product is stable.

Possibility of hazardous

: Under normal conditions of storage and use, hazardous reactions will not occur.

reactions

No specific data.

**Conditions to avoid** Incompatible materials

: No specific data.

**Hazardous decomposition** 

products

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

# **Section 11. Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name       | Result    | Species | Dose        | Exposure |
|-------------------------------|-----------|---------|-------------|----------|
| White mineral oil (petroleum) | LD50 Oral | Rat     | >5000 mg/kg | -        |

### **Conclusion/Summary**

: No known significant effects or critical hazards.

#### **Irritation/Corrosion**

| Product/ingredient name | Result               | Species | Score | Exposure                   | Observation |
|-------------------------|----------------------|---------|-------|----------------------------|-------------|
| zinc oxide              | Eyes - Mild irritant | Rabbit  |       | 24 hours 500<br>milligrams | -           |
|                         | Skin - Mild irritant | Rabbit  |       | 24 hours 500<br>milligrams | -           |

#### **Conclusion/Summary**

Skin

No known significant effects or critical hazards.

**Eyes** Respiratory : No known significant effects or critical hazards. : No known significant effects or critical hazards.

#### **Sensitization**

#### **Conclusion/Summary**

Skin

: No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.

Respiratory

: Sensitization not suspected for humans.

**Mutagenicity** 

**Conclusion/Summary** 

: There are no data available on the mixture itself. Mutagenicity not suspected for humans.

**Carcinogenicity** 

**Conclusion/Summary** 

: There are no data available on the mixture itself. Carcinogenicity not suspected for

Reproductive toxicity

**Conclusion/Summary** 

: There are no data available on the mixture itself. Not considered to be dangerous to humans, according to our database.

**Teratogenicity** 

**Conclusion/Summary** 

: There are no data available on the mixture itself. Teratogenicity not suspected for

### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

humans.

Not available.

#### **Aspiration hazard**

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## **Section 11. Toxicological information**

| Name   | Result                         |
|--|--------------------------------|
|  | ASPIRATION HAZARD - Category 1 |
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers,   | ASPIRATION HAZARD - Category 1 |
| hydrogenated   |                                |
| 1-Dodecene, polymer with 1-decene and 1-octene, hydrogenated | ASPIRATION HAZARD - Category 1 |

Information on the likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Conclusion/Summary
 No known significant effects or critical hazards.
 Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Not available.

# **Section 12. Ecological information**

#### **Toxicity**

| Product/ingredient name | Result  | Species  | Exposure             |
|-------------------------|---|--|----------------------|
| zinc oxide              | Acute IC50 1.85 mg/l Marine water<br>Acute IC50 46 μg/l Fresh water | Algae - Skeletonema costatum<br>Algae - Pseudokirchneriella<br>subcapitata - Exponential<br>growth phase | 96 hours<br>72 hours |
|                         | Acute LC50 98 μg/l Fresh water                                      | Daphnia - Daphnia magna -<br>Neonate   | 48 hours             |
|                         | Acute LC50 1.1 ppm Fresh water                                      | Fish - Oncorhynchus mykiss   | 96 hours             |

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## **Section 12. Ecological information**

**Conclusion/Summary** 

: There are no data available on the mixture itself.

Persistence and degradability

**Conclusion/Summary** 

: This product has not been tested for biodegradation. Not expected to be rapidly degradable.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| FOOD SAFE GREASE        | -                 | -          | Not readily      |

### **Bioaccumulative potential**

| Product/ingredient name   | LogPow  | BCF        | Potential    |
|---|---------|------------|--------------|
| White mineral oil (petroleum) zinc oxide                                      | >6<br>- | -<br>60960 | high<br>high |
| Dec-1-ene, homopolymer,<br>hydrogenated Dec-1-ene,<br>oligomers, hydrogenated | >6.5    | -          | high         |
| 1-Dodecene, polymer with<br>1-decene and 1-octene,<br>hydrogenated            | >6.5    | -          | high         |

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

|                               | TDG<br>Classification   | DOT<br>Classification | ADR/RID   | IMDG  | IATA  |
|-------------------------------|---|-----------------------|---|---|---|
| UN number                     | UN3077  | Not regulated.        | UN3077  | UN3077  | UN3077  |
| UN proper<br>shipping name    | ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE,<br>SOLID, N.O.S.<br>(zinc oxide) | -                     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide) | ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE,<br>SOLID, N.O.S.<br>(zinc oxide) |
| Transport<br>hazard class(es) | 9   | -                     | 9   | 9   | 9   |

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## **Section 14. Transport information**

| Packing group          | III   | -   | III  | III   | III   |
|------------------------|---|-----|--|---|---|
| Environmental hazards  | Yes.  | No. | Yes.   | Yes.  | Yes.  |
| Additional information | Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 43-2.45 (Class 9), 2.7 (Marine pollutant mark).  Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail. |     | This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1. 1.1, 4.1.1.2 and 4. 1.1.4 to 4.1.1.8.  Tunnel code (E) | This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1. 1.1, 4.1.1.2 and 4. 1.1.4 to 4.1.1.8. | This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0. 2.4.1, 5.0.2.6.1.1 and 5.0.2.8. |

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and

the IBC Code

: Not available.

# Section 15. Regulatory information

#### **Canadian lists**

Canadian NPRI : The following components are listed: White mineral oil; Zinc (and its compounds)

**CEPA Toxic substances** : None of the components are listed.

**Canada inventory** : At least one component is not listed in DSL but all such components are listed in

NDSL.

#### **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

#### Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

**Australia** : All components are listed or exempted. China : All components are listed or exempted. : All components are listed or exempted. **Europe** 

**Japan** Not determined.

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## Section 15. Regulatory information

New Zealand : Not determined.

**Philippines** : All components are listed or exempted.

Republic of Korea : Not determined.
Taiwan : Not determined.
Turkey : Not determined.

United States : All components are listed or exempted.

### Section 16. Other information

#### **History**

Date of issue/Date of

revision

: 9/21/2016

**Date of previous issue** 

: No previous validation

**Version** 

: 1

Regulatory Department, Chemtool Inc.

**Key to abbreviations** 

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

**UN = United Nations** 

HPR = Hazardous Products Regulations

#### Procedure used to derive the classification

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

**V** Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Validated on 9/21/2016. 10/10