SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
- Trade name: SintoGrind TTS
- Article number: A100334
- Former article number (till July 2012): 40352

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture: Industrial use
- Uses advised against: Games/toys, ornamental objects, fuel

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: oelheld GmbH
  Ulmer Str. 135-139
  70188 Stuttgart
  GERMANY
  Tel.: +49-(0)711-16863-0
  Fax.: +49-(0)711-16863-3500
  Internet: www.oelheld.de

- Further information obtainable from: Tel. +49-(0)711-16863-0
- E-mail of the informed person: msds@oelheld.de (in German or English)

1.4 Emergency telephone number:
- during hours of business see above
- out of office hours in German (or English): Dr. Schnödt Tel. +49 71 11 68 63-997
  Mr Philipp Storr Tel. +49 71 11 68 63-992
  Mr Martin Storr Tel. +49 71 11 68 63-993
  Mr Speth Tel. +49 71 11 68 63-994
  Mr Philipp Storr Tel. +49 71 11 68 63-996
  or consult the next poison information departement

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  GHS08 health hazard
  Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- GHS07
  Acute Tox. 4 H332 Harmful if inhaled.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms
  The product is classified and labelled according to the CLP regulation.
  GHS07  GHS08

- Signal word
  Danger

- Hazard-determining components of labelling:
  1-decenes, Dimer, Hydrogenated
  1-decenes, homopolymer, hydrogenated

- Hazard statements
  H332 Harmful if inhaled.
  H304 May be fatal if swallowed and enters airways.
  P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  P271 Use only outdoors or in a well-ventilated area.
  P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
  P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  P312 Call a POISON CENTER/doctor if you feel unwell.
  P331 Do NOT induce vomiting.
  P405 Store locked up.
  P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

- Precautionary statements

2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: The criteria to identify an ingredient as a PBT substance in compliance with REACH are according to our information currently not available.

(Contd. on page 2)
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

- CAS: 68649-11-6 1-decenes, Dimer, Hydrogenated
  NLP: 500-228-5  Asp. Tox. 1, H304; Acute Tox. 4, H332  50-100%

- CAS: 68037-01-4 1-decenes, homopolymer, hydrogenated
  NLP: 500-183-1  Asp. Tox. 1, H304  25-50%

Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:
Remove any clothing soiled by the product.
In case of occurring of symptoms or in doubt consult a doctor.
If a doctor is consulted show this material safety data sheet.

After inhalation:
Supply fresh air; consult doctor in case of complaints.

After skin contact:
Wash with water and soap and rinse thoroughly.
Generally the product does not irritate the skin.

After eye contact:
Rinse opened eye for several minutes under running water.

After swallowing:
Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fire with alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture
Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Carbon monoxide (CO)

5.3 Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.

Additional information
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation.
Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions:
Do not allow to enter sewers' surface or ground water.
Do not allow to penetrate the ground/soil.
Keep contaminated washing water and dispose of appropriately.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Remove from the water surface (e.g. skim or suck off).

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaust at the workplace.
Trade name: SintoGrind TTS

- Information about fire - and explosion protection: Open and handle receptacle with care.
  On formation of mist, design capsulation of the machine with openings for the relieving of pressure and a fire-fighting appliance because mist may form explosive/flammable vapour-air mixture.

- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Protect from heat, direct sunlight and UV-rays. Storage stability under the described conditions: 24 months.

- 7.3 Specific end use(s)
  No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- Additional information about design of technical facilities: No further data; see item 7.
- 8.1 Control parameters
  - Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- DNELs
  68649-11-6 1-decenes, Dimer, Hydrogenated
  Inhalative DNEL / 15min / 60 mg/m³ (worker) (Potential health effects: Acute effects)

- 8.2 Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work.
    - Respiratory protection: Not necessary if room is well-ventilated.
    - Protection of hands: Protective gloves or protective skin cream
    - Material of gloves: Nitrile rubber, NBR
    - Penetration time of glove material: At a glove thickness of about 0.4 mm the value of the permeation breakthrough in accordance with EN 374 is for chemically similar products according to the manufacturer: >480 min. (Degradation EN 374 rating class 6)
  - Eye protection: Goggles recommended during refilling
  - Body protection: Protective work clothing

**SECTION 9: Physical and chemical properties**

- 9.1 Information on basic physical and chemical properties
  - General Information
    - Form: Fluid
    - Colour: Colourless
    - Odour: Mild
    - Odour threshold: Not determined.
    - pH-value: Not applicable.
  - Change in condition
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: Undetermined.
  - Flash point: > 150 °C
  - Flammability (solid, gaseous): Not applicable.
  - Ignition temperature: Not determined.
  - Decomposition temperature: Not determined.
  - Danger of explosion: Product is not explosive. However formation of explosive air/vapour mixtures above the flash point or in case of strong misting is possible.

(Contd. on page 4)
Safety data sheet
according to 1907/2006/EC, Article 31

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Version 9
Revision: 24.06.2015

Trade name: SintoGrind TTS

- · Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
- · Vapour pressure: Not determined.
- · Density at 15 °C: 0.81 g/cm³
- · Relative density Not determined.
- · Vapour density Not determined.
- · Evaporation rate Not determined.
- · Solubility in / Miscibility with water: Not miscible or difficult to mix.
- · Partition coefficient (n-octanol/water): Not determined.
- · Viscosity:
  - Dynamic: Not determined.
  - Kinematic at 40 °C: 7.1 mm²/s
- · Solvent content:
  - VOC (EC) None
- · Other information
  - Oxidising properties: not determined.
- · Additional information
  - The above named properties are measured according to part A of the annex V of the EC-regulation 67/548/EC or according to other comparable methods.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
  - No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:
  - No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions
- · 10.4 Conditions to avoid
  - See above
- · 10.5 Incompatible materials:
  - Strong oxidizing agents
- · 10.6 Hazardous decomposition products:
  - No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity: Harmful if inhaled.
- · LD/LC50 values relevant for classification:
  - 68649-11-6 1-decenes, Dimer, Hydrogenated
    - Oral LD50 > 5000 mg/kg (rat)
    - Dermal LD50 > 3000 mg/kg (rabbit)
  - 68037-01-4 1-decenes, homopolymer, hydrogenated
    - Oral LD50 > 5000 mg/kg (rat)
    - Dermal LD50 > 2000 mg/kg (rat)
    - Inhalative LC50 / 4hr > 5.2 mg/l (rat)
- · Primary irritant effect:
  - Skin corrosion/irritation Based on available data, the classification criteria are not met.
  - Serious eye damage/irritation Based on available data, the classification criteria are not met.
  - Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
  - Germ cell mutagenicity Based on available data, the classification criteria are not met.
  - Carcinogenicity Based on available data, the classification criteria are not met.
  - Reproductive toxicity Based on available data, the classification criteria are not met.
  - STOT-single exposure Based on available data, the classification criteria are not met.
  - STOT-repeated exposure Based on available data, the classification criteria are not met.
  - Aspiration hazard May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

- · 12.1 Toxicity
  - Aquatic toxicity:
    - 68649-11-6 1-decenes, Dimer, Hydrogenated
      - LL50 / 96hr > 1000 mg/l (Onchorhyncus mykiss)

(Contd. of page 3)
Trade name: SintoGrind TTS

<table>
<thead>
<tr>
<th>NOEC / 21d</th>
<th>125 mg/l (Daphnia magna)</th>
</tr>
</thead>
<tbody>
<tr>
<td>68037-01-4</td>
<td>1-decenes, homopolymer, hydrogenated</td>
</tr>
<tr>
<td>EC50 / 48hr</td>
<td>190 mg/l (Daphnia magna)</td>
</tr>
<tr>
<td>LC50 / 96hr</td>
<td>&gt; 750 mg/l (Pimephales promelas)</td>
</tr>
<tr>
<td>NOELR / 72hr</td>
<td>&gt; 1000 mg/l (Salmo gaerdneri)</td>
</tr>
<tr>
<td>EL50 / 72hr</td>
<td>&gt; 1000 mg/l (Scenedesmus) (OECD 201)</td>
</tr>
</tbody>
</table>

- **Acute ecotoxicity:**

- **68649-11-6 1-decenes, Dimer, Hydrogenated**
  - EL50 / 72hr: > 1000 mg/l (Scenedesmus)

12.2 Persistence and degradability: Not easily biodegradable
12.3 Bioaccumulative potential: No further relevant information available.
12.4 Mobility in soil: No further relevant information available.
Ecotoxicological effects:
- Behaviour in sewage processing plants: The product can be mechanically separated.
- Additional ecological information: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- General notes: Do not allow product to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment
- PBT: The criteria to identify an ingredient as a PBT substance in compliance with REACH are according to our information currently not available.
- vPvB: The criteria to identify an ingredient as a vPvB substance in compliance with REACH are according to our information currently not available.

12.6 Other adverse effects: No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
  - **Recommendation:** Delivery of waste oil to officially authorised collectors only.

- **European waste catalogue**
  - 12 01 07*: mineral-based machining oils free of halogens (except emulsions and solutions)
  - 15 01 10*: packaging containing residues of or contaminated by dangerous substances

- **For the product:** 12 01 07
- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.
  - Waste disposal key: 15 01 10

### SECTION 14: Transport information

- **14.1 UN-Number**
  - ADR, ADN, IMDG, IATA: Void

- **14.2 UN proper shipping name**
  - ADR, ADN, IMDG, IATA: Void

- **14.3 Transport hazard class(es)**
  - ADR: Void
  - Class: Void
  - Label: Void
  - ADN/R Class: Void

- **14.4 Packing group**
  - ADR, IMDG, IATA: Void

- **14.5 Environmental hazards:**
  - Marine pollutant: No

- **14.6 Special precautions for user**
  - Not applicable

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
  - Not applicable

- **Transport/Additional information:** Not dangerous according to the above specifications.
- ADR: Void
- Excepted quantities (EQ): Void
- Limited quantities (LQ): Void
- Transport category: Void
- Tunnel restriction code: Void
- IMDG: Void
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Labeling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP regulation.

Hazard pictograms

GHS07 GHS08

Signal word

Danger

Hazard-determining components of labeling:

1-decenes, Dimer, Hydrogenated

1-decenes, homopolymer, hydrogenated

Hazard statements

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P313 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Reasons for alterations

General revision.

Relevant phrases

H304 May be fatal if swallowed and enters airways.

H332 Harmful if inhaled.

Department issuing MSDS:

Department of Research & Development

Abbreviations and acronyms:

REACH: Registration, Evaluation and Authorisation of Chemicals (regulation (EC) No 1907/2006)

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

EC: European Community

NLP: no longer polymers

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

WEL: Worktime Exposure Limit

TWA: Time Weighted Average concentration

STEL: Short Time Exposure Limit

OEL: Occupational Exposure Limit

TLV: Threshold limit value

TWA: Time Weighted Average concentration

STEL: Short Time Exposure Limit

IOELV: Indicative Occupational Exposure Limit Value

WEL: Worktime Exposure Limit

ACGIH: American Conference of Governmental Industrial Hygienists

DNEL: Derived No-Effect Level (REACH)

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EC50: ecotoxic concentration, 50 percent

NOEC: no observed effect concentrations

NOELR: No observed effect loading rate

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

VOC: Volatile Organic Compounds (USA, EC)

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

Acute Tox. 4: Acute toxicity, Hazard Category 4

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

* Data compared to the previous version altered.