

1 Product and company identification

- **Product details**
- **Product name:** **SINTOGRIND TTS**
- **Product code:** 40352
- **Application of the substance / the preparation** Grinding oil
- **Manufacturer/Supplier:** oelheld GmbH
Ulmer Str. 135-139
D-70188 Stuttgart
GERMANY
Tel.: +49-(0)711/16863-0
Fax.: +49-(0)711/16863-40
- E-Mail: hutec@oelheld.de
Internet: www.oelheld.de
- **Information department:** Department of application: +49-(0)711/16863-71
- **Emergency information:** see above or contact a Poison Control Center

2 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of synthetic aliphatic hydrocarbons and active substances.
- **Dangerous components:** Void
- **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard description:** Not applicable.
- **WHMIS classification** The product is not subject to classification according to the Canadian WHMIS (workplace hazardous materials information system).
- **Information pertaining to particular dangers for man and environment:** The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:** The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**

0	1	0
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 - Health = 0
 - Fire = 1
 - Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**

HEALTH	0
FIRE	1
REACTIVITY	0

 - Health = 0
 - Fire = 1
 - Reactivity = 0

4 First-aid measures

- **General information:** Remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After ingestion:** Do not induce vomiting; immediately call for medical help.

5 Fire-fighting measures

- **Suitable extinguishing media:** CO2, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.
- **For safety reasons unsuitable extinguishing media:** Water with full jet
- **Special hazards caused by the material, its products of combustion or resulting gases:** In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Carbon monoxide (CO)
Sulphur dioxide (SO2)
- **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.

6 Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation
Particular danger of slipping on leaked/spilled product.

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Reviewed on 07/04/2006

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- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
- **Measures for cleaning/collecting:** 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).
- **Additional information:** See Section 8 for information on personal protection equipment.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaust at the workplace.
Open and handle receptacle with care.
Design capsulation of the machine with openings for the relieving of pressure.
- **Information about protection against explosions and fires:** No special measures required.
- **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.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components 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.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed.
Wash hands before breaks and at the end of work.
Not necessary if room is well-ventilated.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation or in cases where overexposures may occur.
The OSHA Respiratory Standard requires that you use NIOSH-approved respiratory protection that is based on the contaminant according to the regulations of NIOSH 42 Code of Federal Regulations (CFR) 84. In this case the contaminant is oil respectively organic vapors.
So we recommend to use a particulate filter R100, P100 or HE (high efficiency) filter as pre-filter in addition to an organic vapor cartridge. The pre-filters should be changed according to the manufacturer's instructions or when you experience excessive breathing resistance. You should change the cartridges when you taste or smell a substance, or your eyes, throat or respiratory system become irritated. It's best to schedule a cartridge "change-out" before you notice that you are being exposed to the contaminant.
- **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)
These statements are based on laboratory test methods which could not simulate working conditions exactly. The responsibility rests with the end user for choosing the right gloves for his application.
- **Eye protection:** Goggles recommended during refilling.
- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **General Information**
- **Form:** Fluid
- **Color:** Colorless
- **Odor:** Mild

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Reviewed on 07/04/2006

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- **Change in condition**
- Boiling point/Boiling range:** Undetermined.
- Pour point** < -50°C (< -58°F)
- **Flash point:** > 160°C (> 320°F)
- **Ignition temperature:** > 200°C (> 392°F)
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density at 15°C (59°F):** 0.81 g/cm³
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **pH-value:** Not applicable
- **Viscosity:**
- Kinematic at 40°C (104°F):** 7.1 mm²/s
- Kinematic at 38°C (100°F):** 49 SUS (ASTM D 88)
- **Solvent content:**
- Organic solvents:** None

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:** Strong oxidizing agents
- **Dangerous reactions** No dangerous reactions known.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
- Synthetic aliphatic hydrocarbons**
- Oral | LD50 | > 5000 mg/kg (rat)
- **Primary irritant effect:**
- on the skin:** Repeated/long exposure may cause skin dryness and in consequence skin irritations.
- on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:** The product is not subject to classification according to internally approved calculation methods for preparations.
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

- **Information about elimination (persistence and degradability):** Not easily biodegradable
- **Ecotoxicological effects:**
- **Behavior in sewage processing plants:** The product can be mechanically separated.
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Delivery of waste oil to officially authorized collectors only.

· European waste catalogue
12 01 07 mineral-based machining oils free of halogens (except emulsions and solutions)

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information

- DOT regulations:
- Hazard class: -
- Land transport ADR/RID (cross-border):
- ADR/RID class: -
- Maritime transport IMDG:
- IMDG Class: -
- Marine pollutant: No
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: -
- Transport/Additional information: Not dangerous according to the above specifications.

15 Regulatory information

- Sara

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenicity categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Product related hazard informations:** The product is not subject to identification regulations according to directives on hazardous materials.
Observe the general safety regulations when handling chemicals.

- **Safety phrases:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

- **National regulations:**

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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.
- **Department issuing MSDS:** Department of application: +49-(0)711/16863-71
- *** Data compared to the previous version altered.**