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

1.1 Product identifier
- Trade name: MOTIP DEGREASER 200 ml / 500 ml
- Article number: 00185 / 00186

1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MOTIP DUPLI B.V.
  Wolraamweg 2
  NL-8471 XC Wolvega
  The Netherlands
  Tel: +31 (0)561 694400
  Fax: +31 (0)561 694411
  e-mail info@nl.motipdupli.com
- Further information obtainable from: QHSE Department
- Emergency telephone number: +31 (0)561-694400 (09:00h - 17:00h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  - GHS02 flame
  - Flam. Liq. 2 H225 Highly flammable liquid and vapour.
  - GHS08 health hazard
  - Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
  - GHS09 environment
  - Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
  - GHS07
  - Skin Irrit. 2 H315 Causes skin irritation.
  - Eye Irrit. 2 H319 Causes serious eye irritation.
  - STOT SE 3 H336 May cause drowsiness or dizziness.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC
- Xn: Harmful
  - R65: Harmful: may cause lung damage if swallowed.
- F: Highly flammable
  - R11: Highly flammable.
Trade name: MOTIP DEGREASER  200 ml / 500 ml

N: Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Information concerning particular hazards for human and environment:
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
Has a narcotising effect.

Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

Hazard pictograms

Signal word Danger

Hazard-determining components of labelling:
Naphtha (petroleum), hydrotreated light propan-2-ol

Hazard statements
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271 Use only outdoors or in a well-ventilated area.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P331 Do NOT induce vomiting.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.
SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

<table>
<thead>
<tr>
<th>CAS: 64742-49-0</th>
<th>Naphtha (petroleum), hydrotreated light</th>
<th>75-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC number: 921-024-6</td>
<td>Xn R65</td>
<td></td>
</tr>
<tr>
<td>Reg.nr.: 01-211947514-35-xxxx</td>
<td>Xi R38</td>
<td></td>
</tr>
<tr>
<td></td>
<td>F R11</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N R51/53</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R67</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 2, H225</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Asp. Tox. 1, H304</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 2, H411</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, H315; STOT SE 3, H336</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 67-63-0</th>
<th>propan-2-ol</th>
<th>12.5-20%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 200-661-7</td>
<td>Xi R36</td>
<td></td>
</tr>
<tr>
<td>Index number: 603-117-00-0</td>
<td>F R11</td>
<td></td>
</tr>
<tr>
<td>Reg.nr.: 01-211945758-25-xxxx</td>
<td>R67</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 2, H225</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eye Irrit. 2, H319; STOT SE 3, H336</td>
<td></td>
</tr>
</tbody>
</table>

**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
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact: Generally the product does not irritate the skin.
  - After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing: Drink plenty of water and provide fresh air. Call for a doctor 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 fires with water spray or alcohol resistant foam.
  - For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture: No further relevant information available.
- 5.3 Advice for firefighters
  - Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  - Keep away from ignition sources.

- 6.2 Environmental precautions:
  - Do not allow product to reach sewage system or any water course.
  - Prevent seepage into sewage system, workpits and cellars.
  - Inform respective authorities in case of seepage into water course or sewage system.
  - Do not allow to enter sewers/ surface or ground water.

(Contd. on page 4)
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.
Ensure adequate ventilation.

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/exhaustion at the workplace.
Prevent formation of aerosols.

Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>67-63-0 propan-2-ol</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL Short-term value: 1250 mg/m³, 500 ppm</td>
</tr>
<tr>
<td>Long-term value: 999 mg/m³, 400 ppm</td>
</tr>
</tbody>
</table>

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.

Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Material of gloves Not required.
Penetration time of glove material Not required.
Eye protection: Goggles recommended during refilling.
贸名称：MOTIP DEGREASER 200 ml / 500 ml

(Contd. of page 4)

* SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
  - Appearance: Fluid
  - Colour: According to product specification
  - Odour: Characteristic
  - Odour threshold: Not determined.
  - pH-value: Not determined.
- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: 41 °C (106 °F)
- Flash point: -19 °C (-2 °F)
- Flammability (solid, gaseous): Not applicable.
- Ignition temperature: > 200 °C (> 392 °F)
- Decomposition temperature: Not determined.
- Self-igniting: Product is not selfigniting.
- Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Explosion limits:
  - Lower: 0.6 Vol %
  - Upper: 12.0 Vol %
- Vapour pressure at 20 °C (68 °F): 85 hPa (64 mm Hg)
- Density at 20 °C (68 °F): 0.729 g/cm³ (6.084 lbs/gal)
  - 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 20 °C (68 °F): 20 s (ISO 3 mm)
- Solvent content:
  - Organic solvents: 100.0 %
  - EU-VOC: 729.0 g/l
  - EU-VOC in %: 100.00 %
- 9.2 Other information
  - No further relevant information available.

(Contd. on page 6)
**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
  - **Acute toxicity**
    - **LD/LC50 values relevant for classification:**
      - **64742-49-0 Naphtha (petroleum), hydrotreated light**
        - Oral LD50: >5840 mg/kg (rat)
        - Dermal LD50: >2920 mg/kg (rabbit)
        - Inhalative LC50 / 4 h: >193 mg/m³ (rat)
        - LC50 / 4h: 25.2 mg/l (rat)
        - LC50 / 96 h: 11.4 mg/l (fish)
      - **67-63-0 propan-2-ol**
        - Oral LD50: 5045 mg/kg (rat)
        - Dermal LD50: 12800 mg/kg (rabbit)
        - Inhalative LC50 / 4 h: 30 mg/m³ (rat)
  - **Primary irritant effect:**
    - **Skin corrosion/irritation:** No irritant effect.
    - **Serious eye damage/irritation:** No irritating effect.
    - **Respiratory or skin sensitisation:** No sensitising effects known.
  - **Additional toxicological information:**
    - The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

**SECTION 12: Ecological information**

- **12.1 Toxicity**
  - **Aquatic toxicity:**
    - **64742-49-0 Naphtha (petroleum), hydrotreated light**
      - EC50 / 48 h: 3 mg/l (daphnia magna)
      - EC50 / 72 h: 30-100 mg/l (algae)
      - LC50 / 96 h: 93-117 mg/l (fish)
    - **67-63-0 propan-2-ol**
      - EC50 / 48 h: 13299 mg/l (daphnia magna)
      - LC50 / 96 h (dynamic): 4200 mg/l (fish)
  - **12.2 Persistence and degradability:** No further relevant information available.
  - **12.3 Bioaccumulative potential:** No further relevant information available.
  - **12.4 Mobility in soil:** No further relevant information available.
  - **Ecotoxic effects:**
    - **Remark:** Toxic for fish
  - **Additional ecological information:**
    - **General notes:**
      - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
      - Do not allow product to reach ground water, water course or sewage system.
      - Danger to drinking water if even small quantities leak into the ground.
      - Also poisonous for fish and plankton in water bodies.
      - Toxic for aquatic organisms
  - **12.5 Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.
    - **vPvB:** Not applicable.
### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue**

- 20 01 13* solvents
- 15 01 04 metallic packaging

**Uncleaned packaging:**

**Recommendation:** Non contaminated packagings may be recycled.

### SECTION 14: Transport information

#### 14.1 UN-Number

- **ADR, IMDG, IATA**
  
  UN1993

#### 14.2 UN proper shipping name

- **ADR**
  
  1993 FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50 °C not more than 110 kPa) (Naphtha (petroleum), hydrotreated light, ISOPROPANOL (ISOPROPYL ALCOHOL)), ENVIRONMENTALLY HAZARDOUS

- **IMDG**
  
  FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light, ISOPROPANOL (ISOPROPYL ALCOHOL)), MARINE POLLUTANT

- **IATA**
  
  FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light, ISOPROPANOL (ISOPROPYL ALCOHOL))

#### 14.3 Transport hazard class(es)

- **ADR, IMDG**
  
  3 Flammable liquids.

- **IATA**
  
  3 Flammable liquids.

#### 14.4 Packing group

- **ADR, IMDG, IATA**
  
  II

#### 14.5 Environmental hazards:

- **Marine pollutant:**
  
  Yes
  
  Symbol (fish and tree)

- **Special marking (ADR):**
  
  Symbol (fish and tree)

#### 14.6 Special precautions for user

**Warning:** Flammable liquids.
Trade name: MOTIP DEGREASER  200 ml / 500 ml

- Danger code (Kemler): 33
- EMS Number: F-E,S-E

- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  Not applicable.

- Transport/Additional information:
  - ADR
  - Limited quantities (LQ): 1L
    - Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml
  - Transport category 2
  - Tunnel restriction code D/E

- IMDG
  - Limited quantities (LQ): 1L
    - Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml

- UN "Model Regulation":
  UN1993, FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50 °C not more than 110 kPa) (Naphtha (petroleum), hydrotreated light, ISOPROPANOL (ISOPROPYL ALCOHOL)), 3, II, ENVIRONMENTALLY HAZARDOUS

* SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I None of the ingredients is listed.
- 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.

- Relevant phrases
  H225 Highly flammable liquid and vapour.
  H304 May be fatal if swallowed and enters airways.
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H336 May cause drowsiness or dizziness.
  H411 Toxic to aquatic life with long lasting effects.
  R11 Highly flammable.
  R36 Irritating to eyes.
  R38 Irritating to skin.
  R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  R65 Harmful: may cause lung damage if swallowed.
  R67 Vapours may cause drowsiness and dizziness.

- Department issuing MSDS: R&D legislation and regulatory advisor
- Contact: Mr. K. Smedeman
- Abbreviations and acronyms:
  RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  ICAO: International Civil Aviation Organisation
Trade name: MOTIP DEGREASER  200 ml / 500 ml

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
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

* Data compared to the previous version altered.