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

1.1 Product identifier
   - Trade name: MOTIP SILICONE SPRAY

1.2 Relevant identified uses of the substance or mixture and uses advised against
   - Application of the substance / the mixture: Lubricant

1.3 Details of the supplier of the safety data sheet
   - Manufacturer/Supplier: MOTIP DUPLI B.V.
     Wolfraamweg 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

1.4 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
  - GHS09 environment
    - Aquatic Chronic 2  H411  Toxic to aquatic life with long lasting effects.
  - GHS07
    - Skin Irrit. 2  H315  Causes skin irritation.
    - STOT SE 3  H336  May cause drowsiness or dizziness.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC
  - Xi: Irritant
    - R38: Irritating to skin.
  - F+: Extremely flammable
    - R12: Extremely flammable.
  - N: Dangerous for the environment
    - R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
    - R67: Vapours may cause drowsiness and dizziness.

(Contd. on page 2)
Trade name: MOTIP SILICONE SPRAY

- 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.
Warning! Pressurised container.
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

GHS02  GHS07  GHS09

- Signal word Danger

- Hazard-determining components of labelling:
Naphtha (petroleum), hydrotreated light
- Hazard statements
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements
P102 Keep out of reach of children.
P260 Do not breathe spray.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.
P211 Do not spray on an open flame or other ignition source.
P411+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
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:
Trade name: MOTIP SILICONE SPRAY

CAS: 64742-49-0  
EC number: 927-510-4  
Index number: 649-328-00-1  
Reg.nr.: 01-2119475515-33-xxxx  
Naphtha (petroleum), hydrotreated light  
Xn R65  
Xi R38  
F R11  
N R51/53

CAS: 74-98-6  
EINECS: 200-827-9  
Index number: 601-003-00-5  
Reg.nr.: 01-2119486944-21-xxxx  
propane  
F+ R12  
Flam. Gas 1, H220  
Press. Gas C, H280

CAS: 106-97-8  
EINECS: 203-448-7  
Index number: 601-004-00-0  
Reg.nr.: 01-2119474691-32-xxxx  
butane  
F+ R12  
Flam. Gas 1, H220  
Press. Gas C, H280

CAS: 75-28-5  
EINECS: 200-857-2  
Index number: 601-004-00-0  
Reg.nr.: 01-2119485395-27-xxxx  
isobutane  
F+ R12  
Flam. Gas 1, H220  
Press. Gas C, H280

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: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- 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
- Ensure adequate ventilation
- Keep away from ignition sources.

6.2 Environmental precautions:
- Do not allow product to reach sewage system or any water course.
- 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)
SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Protect from heat and direct sunlight.

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Short-term value</th>
<th>Long-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>106-97-8 butane</td>
<td>1810 mg/m³, 750 ppm</td>
<td>1450 mg/m³, 600 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.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
Respiratory protection: Not required.

Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Protective gloves
· Material of gloves
   The selection of the suitable gloves does not only depend on the material, but also on further marks of quality
   and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the
   resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the
   application.
· Penetration time of glove material
   The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be
   observed.
· Eye protection: Not required.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties
· General Information
  · Appearance:
  · Form: Aerosol
  · Colour: According to product specification
  · Odour: Solvent-like
  · Odour threshold: Not determined.
  · pH-value: Not determined.
· Change in condition
  · Melting point/Melting range: Undetermined.
  · Boiling point/Boiling range: Not applicable, as aerosol.
· Flash point: < 0 °C (< 32 °F)
  · Not applicable, as aerosol.
· Flammability (solid, gaseous): Not applicable.
· Ignition temperature: > 230 °C (> 446 °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: 0.9 Vol %
  · Upper: 10.9 Vol %
· Vapour pressure at 20 °C (68 °F):
  · 3500 hPa (2625 mm Hg)
· Density at 20 °C (68 °F):
  · 0.6353 g/cm³ (5.302 lbs/gal)
  · Relative density: Not determined.
  · Vapour density: Not determined.
  · Evaporation rate: Not applicable.
· Solubility in / Miscibility with water: Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water): Not determined.
· Viscosity:
  · Dynamic: Not determined.
  · Kinematic: Not determined.
· Solvent content:
  · Organic solvents: 92.0 %
  · EU-VOC: 584.5 g/l
  · EU-VOC in %: 92.00 %
**SECTION 10: Stability and reactivity**

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

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity**
  - LD/LC50 values relevant for classification:
    
    |                 | LD50          | LC50          |
    |-----------------|---------------|---------------|
    | Oral            | >5840 mg/kg (rat) |               |
    | Dermal          | >2920 mg/kg (rat) |               |
    | Inhalative      | >25200 mg/m³ (rat) | >2 mg/l (rat) |
    |                 |               | 2.5 mg/l (Leuciscus idus) |

- **106-97-8 butane**
  - \( {\text{LC50}} / 4 \text{ h} > 658000 \text{ mg/m}³ \text{ (rat)} \)

- **Primary irritant effects:**
  - Skin corrosion/irritation Irritant to skin and mucous membranes.
  - 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:

Irritant

**SECTION 12: Ecological information**

- **12.1 Toxicity**
  - *Aquatic toxicity:*
    
    |                  | EC50 / 24h | LC50 / 48h | LC50 / 96h |
    |------------------|-----------|------------|------------|
    | Naphtha (petroleum), hydrotreated light | >10 mg/l (Daphnia magna) | >100 mg/l (fish) | 4924 mg/l (fish) |
    |                  |           |            | 2.5 mg/l (Pimephales promelas) |

- **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. 

12.6 Other adverse effects 
No further relevant information available.

**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**

- **14 06 03** other solvents and solvent mixtures 
- **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:** UN1950

14.2 UN proper shipping name 
- **ADR** 
1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
- **IMDG** 
AEROSOLS (Naphtha (petroleum), hydrotreated light), MARINE POLLUTANT
- **IATA** 
AEROSOLS, flammable

14.3 Transport hazard class(es) 

**ADR**

- **Class:** 2 
- **Label:** 2.1 

**IMDG**

- **Class:** 2.1 
- **Label:** 2.1 

**IATA**

- **Class:** 2.1 

(Contd. on page 8)
Trade name: MOTIP SILICONE SPRAY

<table>
<thead>
<tr>
<th>· Label</th>
<th>2.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>· 14.4 Packing group</td>
<td>Void</td>
</tr>
<tr>
<td>· ADR, IMDG, IATA</td>
<td></td>
</tr>
<tr>
<td>· 14.5 Environmental hazards:</td>
<td></td>
</tr>
<tr>
<td>· Marine pollutant:</td>
<td>Yes</td>
</tr>
<tr>
<td>· Symbol (fish and tree)</td>
<td>Symbol (fish and tree)</td>
</tr>
<tr>
<td>· Special marking (ADR):</td>
<td></td>
</tr>
<tr>
<td>· 14.6 Special precautions for user</td>
<td>Warning: Gases.</td>
</tr>
<tr>
<td>· Danger code (Kemler):</td>
<td>-</td>
</tr>
<tr>
<td>· EMS Number:</td>
<td>F-D,S-U</td>
</tr>
<tr>
<td>· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

**TRANSPORT/ADDITIONAL INFORMATION:**

| · ADR |  |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E0 |
| | Not permitted as Excepted Quantity |
| · Transport category | 2 |
| · Tunnel restriction code | D |
| · IMDG |  |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E0 |
| | Not permitted as Excepted Quantity |

**UN "Model Regulation":**

UN1950, AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

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**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.

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**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**

H220  Extremely flammable gas.
H225  Highly flammable liquid and vapour.
H280  Contains gas under pressure; may explode if heated.
H304  May be fatal if swallowed and enters airways.
H315  Causes skin irritation.
H336  May cause drowsiness or dizziness.
H411  Toxic to aquatic life with long lasting effects.
R11  Highly flammable.
R12  Extremely flammable.
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
- 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. Gas 1: Flammable gases, Hazard Category 1
- Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
- Press. Gas C: Gases under pressure: Compressed gas
- Flam. Liq. 2: Flammable liquids, Hazard Category 2
- Skin Irrit. 2: Skin corrosion/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.