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

1.1. Product identifier
   Mixture identification:
   Trade name: SVITOL EASY ELECTRIC SPRAY ML 200
   Trade code: 2325

1.2. Relevant identified uses of the substance or mixture and uses advised against
   Recommended use:
   Releasing product/lubricant

1.3. Details of the supplier of the safety data sheet
   Supplier:
   Arexons S.p.A.
   via Antica di Cassano, 23, 20063
   Cernusco sul Naviglio (MI), Italy
   Arexons S.p.A.
   Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306
   Competent person responsible for the safety data sheet:
   arexons@arexons.it

1.4. Emergency telephone number
   Arexons S.p.A.
   Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306
   Centro Antiveleni di Pavia IRCCS- Fondazione Maugeri tel. +39 (0)382 24444 (h24; it, en)
   In England and Wales: NHS 111 - dial 111
   In Scotland: NHS 24 - dial 111
   In Ireland: Beaumont Hospital - National Poisons Information Centre 01 809 2166 (7days, 8:00 - 22:00)
   In South Africa: Poison Information Helpline 0861 555 777

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
   EC regulation criteria 1272/2008 (CLP):
   Warning, Aerosols 2, Flammable aerosol. Pressurized container: may burst if heated.
   Warning, STOT SE 3, May cause drowsiness or dizziness.
   EUH066 Repeated exposure may cause skin dryness or cracking.
   Adverse physicochemical, human health and environmental effects:
   No other hazards

2.2. Label elements
   Hazard pictograms:
   ⚠️ Warning
   ⚠️ Flammable aerosol. Pressurized container: may burst if heated.
   ⚠️ May cause drowsiness or dizziness.
   ⚠️ Repeated exposure may cause skin dryness or cracking.

   Hazard statements:
   H223, H229 Flammable aerosol. Pressurized container: may burst if heated.
   H336 May cause drowsiness or dizziness.

   Precautionary statements:
   P101 If medical advice is needed, have product container or label at hand.
   P102 Keep out of reach of children.
   P103 Read carefully and follow all instructions.
   P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

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Smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P271 Use only outdoors or in a well-ventilated area.
P405 Store locked up.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:
EUH066 Repeated exposure may cause skin dryness or cracking.

Contains
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Special provisions according to Annex XVII of REACH and subsequent amendments:
None

Product contents:
Aliphatic hydrocarbons > 30 %

2.3. Other hazards
vPyB Substances: None - PBT Substances: None
Other Hazards:
No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances
N.A.

3.2. Mixtures
Hazardous components within the meaning of the CLP regulation and related classification:

>= 60% - < 70% Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
REACH No.: 01-2119463258-33, CAS: 64742-48-9, EC: 919-857-5

❖ 2.6/3 Flam. Liq. 3 H226
❖ 3.10/1 Asp. Tox. 1 H304
❖ 3.8/3 STOT SE 3 H336
EUH066
DECLP (CLP)*

>= 3% - < 5% Diossido di carbonio liquido refrigerato
CAS: 124-38-9, EC: 204-696-9
❖ 2.5/RL Press Gas (Ref. Liq.) H281

>= 0.25% - < 0.5% Baseoil - unspecified.
REACH No.: 01-2119484627-25, CAS: 64742-54-7, EC: 265-157-1
❖ 3.10/1 Asp. Tox. 1 H304
DECLL (CLP)*

*DECLP (CLP): Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008. The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply. This note applies only to certain complex oil-derived substances in Part 3.

*DECLL (CLP): Substance classified in accordance with Note L, Annex VI of EC Regulation (EC) 1272/2008. The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346 “Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method”, Institute of Petroleum, London. This note applies only to certain complex
SECTION 4: First aid measures
4.1. Description of first aid measures
In case of skin contact:
Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the
product must be rinsed immediately with plenty of running water and possibly with soap.
Wash thoroughly the body (shower or bath).
Remove contaminated clothing immediately and dispose off safely.
In case of eyes contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
In case of Ingestion:
Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION
IMMEDIATELY.
In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.
4.2. Most important symptoms and effects, both acute and delayed
None
4.3. Indication of any immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately (show directions for use or
safety data sheet if possible).
Treatment:
None

SECTION 5: Firefighting measures
5.1. Extinguishing media
Appropriate Extinguishing Media:
To carbon dioxide.
To dust.
Foam
Water spray.
Not Recommended Extinguishing Media:
Do not use direct water jets.
5.2. Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
5.3. Advice for firefighters
Use suitable breathing apparatus.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Remove all sources of ignition.
Remove persons to safety.
See protective measures under point 7 and 8.
6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up
Wash with plenty of water.

6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities
Store at below 50 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated.

7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics - CAS: 64742-48-9
ACGIH - TWA: 1200 mg/m3, 197 ppm
Diossido di carbonio liquido refrigerato - CAS: 124-38-9
EU - TWA(8h): 9000 mg/m3, 5000 ppm
ACGIH - TWA(8h): 5000 ppm - STEL: 30000 ppm - Notes: Asphyxia
Baseoil - unspecified. - CAS: 64742-54-7
EU - TWA: 5 mg/m3

DNEL Exposure Limit Values
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics - CAS: 64742-48-9
Worker Professional: 208 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 871 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 125 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 185 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 125 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values
N.A.

8.2. Exposure controls
Eye protection:
Eye glasses with side protection.
Compliant with EN 166
Protection for skin:
No special precaution must be adopted for normal use.
Protection for hands:
Nitrile or Viton gloves.
Compliant with EN 374.
Respiratory protection:
Use adequate protective respiratory equipment.
Thermal Hazards:
None
Environmental exposure controls:
None
Appropriate engineering controls:
None

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Method:</th>
<th>Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and colour:</td>
<td>Aerosol, amber</td>
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<td>--</td>
</tr>
<tr>
<td>Odour:</td>
<td>Characteristic</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Odour threshold:</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>pH:</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Melting point / freezing point:</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>$&gt;+150^\circ C&lt;=218^\circ C$</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Flash point:</td>
<td>$&gt; 60^\circ C$</td>
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<td>--</td>
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<tr>
<td>Evaporation rate:</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Solid/gas flammability:</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits:</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Vapour density:</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Relative density:</td>
<td>0,810 g/cm3</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Solubility in water:</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Solubility in oil:</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Auto-ignition temperature:</td>
<td>N.A.</td>
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<tr>
<td>Decomposition</td>
<td>N.A.</td>
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</tr>
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</table>
9.2. Other information

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Method:</th>
<th>Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miscibility</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Fat Solubility</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Conductivity</td>
<td>N.A.</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>Substance Groups relevant properties</td>
<td>N.A.</td>
<td>--</td>
<td></td>
</tr>
</tbody>
</table>

NA=not applicable

SECTION 10: Stability and reactivity
10.1. Reactivity
- Stable under normal conditions

10.2. Chemical stability
- Stable under normal conditions

10.3. Possibility of hazardous reactions
- None

10.4. Conditions to avoid
- Stable under normal conditions.

10.5. Incompatible materials
- Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products
- None.

SECTION 11: Toxicological information
11.1. Information on toxicological effects

Toxicological information of the product:
SVITOL EASY ELECTRIC SPRAY ML 200
a) acute toxicity
- Not classified
- Based on available data, the classification criteria are not met

b) skin corrosion/irritation
- Not classified
- Based on available data, the classification criteria are not met

c) serious eye damage/irritation
- Not classified
- Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation
- Not classified
- Based on available data, the classification criteria are not met

e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
f) carcinogenicity
   Not classified
   Based on available data, the classification criteria are not met
g) reproductive toxicity
   Not classified
   Based on available data, the classification criteria are not met
h) STOT-single exposure
   The product is classified: STOT SE 3 H336
i) STOT-repeated exposure
   Not classified
   Based on available data, the classification criteria are not met
j) aspiration hazard
   Not classified
   Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics - CAS: 64742-48-9
a) acute toxicity:
   Test: LC50 - Route: Inhalation - Species: Rat > 5000 mg/m3 - Duration: 4h - Source: ECHA BP - SUPPLIER SDS
   Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: ECHA BP - SUPPLIER SDS
   Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Source: ECHA BP - SUPPLIER SDS
h) STOT-single exposure:
   Test: May cause drowsiness and dizziness. Positive - Source: SUPPLIER SDS - No data available for the product
i) STOT-repeated exposure:
   Test: OECD 422 Negative - Source: SUPPLIER SDS
   Test: NOAEL - Route: Oral - Species: Rat > 1000 mg/kg - Source: ECHA BP
   Test: NOAEL - Route: Inhalation - Species: Rat 200 Ppm - Source: ECHA BP
   Test: NOAEC - Route: Inhalation - Species: Rat > 275 mg/m3 - Source: ECHA BP
j) aspiration hazard:
   Test: May be fatal if swallowed and enters airways (physical-chemical properties) - Route: Oral - Source: SUPPLIER SDS
Baseoil - unspecified. - CAS: 64742-54-7
f) carcinogenicity:
   Negative
h) STOT-single exposure:
   Test: Respiratory Tract Irritant Positive
j) aspiration hazard:
   Test: May be fatal if swallowed and enters airways (physical-chemical properties) Positive

SECTION 12: Ecological information

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics - CAS: 64742-48-9
a) Aquatic acute toxicity:
   Endpoint: EL0 - Species: Daphnia 1000 mg/l - Duration h: 48
   Endpoint: EL50 - Species: Algae > 1000 mg/l - Duration h: 72
   Endpoint: LL50 - Species: Fish > 1000 mg/l - Duration h: 96
   Endpoint: NOELR - Species: Algae 100 mg/l - Duration h: 72
Baseoil - unspecified. - CAS: 64742-54-7
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia > 10000 mg/l - Duration h: 48
Endpoint: EC50 - Species: Daphnia > 10 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 96

12.2. Persistence and degradability
None
Baseoil - unspecified. - CAS: 64742-54-7
Test: BIOGDG06 - Duration: 28gg - %: 31

12.3. Bioaccumulative potential
N.A.

12.4. Mobility in soil
N.A.

12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects
None

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number
ADR-UN Number: 1950
IATA-UN Number: 1950
IMDG-UN Number: 1950

14.2. UN proper shipping name
ADR-Shipping Name: AEROSOLS, flammable
IATA-Shipping Name: AEROSOLS
IMDG-Shipping Name: AEROSOLS, flammable

14.3. Transport hazard class(es)
ADR-Class: 2
IATA-Label: 2.1
IMDG-Class: 2
Sea (IMO): 2 UN 1950

14.4. Packing group
ADR-Packing Group: -
IATA-Packing group: -
IMDG-Packing group: -

14.5. Environmental hazards
ADR-Enviromental Pollutant: No
IMDG-Marine pollutant: No

14.6. Special precautions for user
ADR-Subsidiary hazards: See SP63
Safety Data Sheet
SVITOL EASY ELECTRIC SPRAY ML 200

ADR-S.P.: 190 327 344 625
ADR-Transport category (Tunnel restriction code): 2 (D)
IATA-Passenger Aircraft: 203
IATA-Subsidiary hazards: See SP63
IATA-Cargo Aircraft: 203
IATA-S.P.: A145 A167 A802
IATA-ERG: 10L
IMDG-EmS: F-D, S-U
IMDG-Subsidiary hazards: See SP63
IMDG-Stowage and handling: SW1 SW22
IMDG-Segregation: SG69

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No
Limited Quantity: 1 L
Exempted Quantity: E0

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 98/24/EC (Risks related to chemical agents at work)
- Dir. 2000/39/EC (Occupational exposure limit values)
- Regulation (EC) n. 1907/2006 (REACH)
- Regulation (EC) n. 1272/2008 (CLP)
- Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
- Regulation (EU) 2015/830
- Regulation (EU) n. 286/2011 (ATP 2 CLP)
- Regulation (EU) n. 618/2012 (ATP 3 CLP)
- Regulation (EU) n. 487/2013 (ATP 4 CLP)
- Regulation (EU) n. 944/2013 (ATP 5 CLP)
- Regulation (EU) n. 605/2014 (ATP 6 CLP)
- Regulation (EU) n. 2015/1221 (ATP 7 CLP)
- Regulation (EU) n. 2016/918 (ATP 8 CLP)
- Regulation (EU) n. 2016/1179 (ATP 9 CLP)
- Regulation (EU) n. 2017/776 (ATP 10 CLP)
- Regulation (EU) n. 2018/669 (ATP 11 CLP)
- Regulation (EU) n. 2018/1480 (ATP 13 CLP)
- Regulation (EU) n. 2019/521 (ATP 12 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
Restrictions related to the product:
Restriction 3
Restriction 40
Restrictions related to the substances contained:
No restriction.

Volatile Organic compounds - VOCs = 75.29 %
Volatile Organic compounds - VOCs = 752.93 g/Kg
Volatile Organic compounds - VOCs = 620.42 g/l
Where applicable, refer to the following regulatory provisions:
- Directive 2012/18/EU (Seveso III)
- Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
Product belongs to category: P3b

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15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for the mixture.
Substances for which a Chemical Safety Assessment has been carried out: None

**SECTION 16: Other information**

Text of phrases referred to under heading 3:
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H336 May cause drowsiness or dizziness.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- H281 Contains refrigerated gas; may cause cryogenic burns or injury.

<table>
<thead>
<tr>
<th>Hazard class and hazard category</th>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Aerosols 2</td>
<td>2.3/2</td>
<td>Aerosol, Category 2</td>
</tr>
<tr>
<td>Press Gas (Ref. Liq.)</td>
<td>2.5/RL</td>
<td>Gases under pressure (Refrigerated liquefied gas)</td>
</tr>
<tr>
<td>Flam. Liq. 3</td>
<td>2.6/3</td>
<td>Flammable liquid, Category 3</td>
</tr>
<tr>
<td>Asp. Tox. 1</td>
<td>3.10/1</td>
<td>Aspiration hazard, Category 1</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>3.8/3</td>
<td>Specific target organ toxicity - single exposure, Category 3</td>
</tr>
</tbody>
</table>

Paragraphs modified from the previous revision:

- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 9: Physical and chemical properties
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

<table>
<thead>
<tr>
<th>Classification according to Regulation (EC) Nr. 1272/2008</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerosols 2, H223, H229</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>STOT SE 3, H336</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:
- ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
- SAX’s DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold
Safety Data Sheet
SVITOL EASY ELECTRIC SPRAY ML 200

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate
ATEmix: Acute toxicity Estimate (Mixtures)
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the “International Air Transport Association” (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the “International Civil Aviation Organization” (ICAO).
INCI: International Nomenclature of Cosmetic Ingredients.
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
NA: Not applicable
PNEC: Predicted No Effect Concentration.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average
WGK: German Water Hazard Class.
Exposure Scenario, 08/07/2019

<table>
<thead>
<tr>
<th>Substance identity</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Chemical name</td>
<td>Hydrocarbons C9-C11 cyclics-iso-alkanes &lt;2% aromatics, declass. ex Notes &quot;P&quot;</td>
</tr>
<tr>
<td>CAS No.</td>
<td>64742-48-9</td>
</tr>
<tr>
<td>EINECS No.</td>
<td>919-857-5</td>
</tr>
</tbody>
</table>

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1. **ES 1** Formulation or re-packing; Solvent-based process
2. **ES 2** Use at industrial site
3. **ES 3** Use at industrial site
4. **ES 4** Widespread use by professional workers
5. **ES 5** Widespread use by professional workers
6. **ES 6** Consumer use; Various products (PC1, PC24, PC31)
7. **ES 7** Consumer use; Various products (PC1, PC24, PC31)
8. **ES 8** Consumer use; Adhesives, sealants (PC1)
9. **ES 9** Consumer use; Various products (PC39, PC28)
# 1. ES 1  Formulation or re-packing; Solvent-based process

## 1.1 TITLE SECTION

<table>
<thead>
<tr>
<th>Exposure Scenario name</th>
<th>Formulation and (re) packaging of substances and mixtures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date - Version</td>
<td>28/06/2019 - 1.0</td>
</tr>
<tr>
<td>Life Cycle Stage</td>
<td>Formulation or re-packing</td>
</tr>
<tr>
<td>Main user group</td>
<td>Industrial uses</td>
</tr>
<tr>
<td>Sector(s) of use</td>
<td>Industrial uses (SU3) - Formulation [mixing] of preparations and/or re-packaging (SU10)</td>
</tr>
</tbody>
</table>

### Environment Contributing Scenario

<table>
<thead>
<tr>
<th>CS1 Wet formulation</th>
<th>ERC2</th>
</tr>
</thead>
</table>

### Worker Contributing Scenario

<table>
<thead>
<tr>
<th>CS2 General exposures</th>
<th>PROC5 - PROC1 - PROC2 - PROC3 - PROC4 - PROC8a - PROC8b - PROC9 - PROC14 - PROC15</th>
</tr>
</thead>
</table>

## 1.2 Conditions of use affecting exposure

### 1.2. CS1: Environment Contributing Scenario: Wet formulation (ERC2)

### Environmental release categories

| Formulation into mixture (ERC2) |

### Product (article) characteristics

| Physical form of product: Liquid |

### Process Categories

- Mixing or blending in batch processes - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition - Chemical production where opportunity for exposure arises - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - Transfer of substance or mixture (charging and discharging) at dedicated facilities - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) - Tabletting, compression, extrusion, pelletisation, granulation - Use as laboratory reagent (PROC5, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC14, PROC15)

### Product (article) characteristics

| Physical form of product: Liquid |

### Amount used, frequency and duration of use/exposure

- **Duration:** Covers daily exposures up to 8 hours

### Other conditions affecting worker exposure

| Temperature: Assumes use at not more than 20 °C above ambient temperature. 20°C |

## 1.3 Exposure estimation and reference to its source

| N/A |

## 1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

| N/A |
Guidance to check compliance with the exposure scenario:
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
## 2. ES 2 Use at industrial site

### 2.1 TITLE SECTION

<table>
<thead>
<tr>
<th>Exposure Scenario name</th>
<th>Lubricating agent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date - Version</td>
<td>28/06/2019 - 1.0</td>
</tr>
<tr>
<td>Life Cycle Stage</td>
<td>Use at industrial site</td>
</tr>
<tr>
<td>Main user group</td>
<td>Industrial uses</td>
</tr>
<tr>
<td>Sector(s) of use</td>
<td>Industrial uses (SU3)</td>
</tr>
</tbody>
</table>

### Environment Contributing Scenario

| CS1 Solvent-based process | ERC4 - ERC7 |

### Worker Contributing Scenario

| CS2 General measures applicable to all activities | PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC9 - PROC10 - PROC13 - PROC17 - PROC18 |

### 2.2 Conditions of use affecting exposure

#### 2.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC4, ERC7)

| Environmental release categories | Use of non-reactive processing aid at industrial site (no inclusion into or onto article) - Use of functional fluid at industrial site (ERC4, ERC7) |

#### 2.2. CS2: Worker Contributing Scenario: General measures applicable to all activities (PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18)

| Process Categories | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition - Chemical production where opportunity for exposure arises - Industrial spraying - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - Transfer of substance or mixture (charging and discharging) at dedicated facilities - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) - Roller application or brushing - Treatment of articles by dipping and pouring - Lubrication at high energy conditions in metal working operations - General greasing/lubrication at high kinetic energy conditions (PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18) |

### Product (article) characteristics

| Physical form of product: | Liquid |

### Amount used, frequency and duration of use/exposure

| Duration: | Covers daily exposures up to 8 hours |

### Conditions and measures related to personal protection, hygiene and health evaluation

| Personal protection | Wear suitable gloves tested to EN374. |

### Other conditions affecting worker exposure

| Temperature: | Assumes use at not more than 20 °C above ambient temperature. |

### 2.3 Exposure estimation and reference to its source

| N/A |
2.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

**Guidance to check compliance with the exposure scenario:**

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
## 3. ES 3 Use at industrial site

### 3.1 TITLE SECTION

<table>
<thead>
<tr>
<th>Exposure Scenario name</th>
<th>Lubricants - Industrial use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date - Version</td>
<td>28/06/2019 - 1.0</td>
</tr>
<tr>
<td>Life Cycle Stage</td>
<td>Use at industrial site</td>
</tr>
<tr>
<td>Main user group</td>
<td>Industrial uses</td>
</tr>
<tr>
<td>Sector(s) of use</td>
<td>Industrial uses (SU3)</td>
</tr>
</tbody>
</table>

### Environment Contributing Scenario

<table>
<thead>
<tr>
<th>CS1 Solvent-based process</th>
<th>ERC4 - ERC7</th>
</tr>
</thead>
</table>

### Worker Contributing Scenario

<table>
<thead>
<tr>
<th>CS2 Lubricants</th>
<th>PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC9 - PROC10 - PROC13 - PROC17 - PROC18</th>
</tr>
</thead>
</table>

### 3.2 Conditions of use affecting exposure

#### 3.2.1 CS1: Environment Contributing Scenario: Solvent-based process (ERC4, ERC7)

**Environmental release categories**

Use of non-reactive processing aid at industrial site (no inclusion into or onto article) - Use of functional fluid at industrial site (ERC4, ERC7)

**Product (article) characteristics**

<table>
<thead>
<tr>
<th>Physical form of product:</th>
<th>Liquid</th>
</tr>
</thead>
</table>

#### 3.2.2 CS2: Worker Contributing Scenario: Lubricants (PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18)

**Process Categories**

Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition - Chemical production where opportunity for exposure arises - Industrial spraying - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - Transfer of substance or mixture (charging and discharging) at dedicated facilities - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) - Roller application or brushing - Treatment of articles by dipping and pouring - Lubrication at high energy conditions in metal working operations - General greasing/lubrication at high kinetic energy conditions (PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18)

**Product (article) characteristics**

<table>
<thead>
<tr>
<th>Physical form of product:</th>
<th>Liquid</th>
</tr>
</thead>
</table>

**Concentration of substance in product:**

Covers percentage substance in the product up to 100%.

**Amount used, frequency and duration of use/exposure**

**Duration:**

Covers daily exposures up to 8 hours

**Technical and organisational conditions and measures**

Use in contained systems
**Conditions and measures related to personal protection, hygiene and health evaluation**

<table>
<thead>
<tr>
<th><strong>Personal protection</strong></th>
<th>Wear suitable gloves tested to EN374.</th>
</tr>
</thead>
</table>

**Other conditions affecting worker exposure**

**Temperature:** Assumes use at not more than 20 °C above ambient temperature.

<table>
<thead>
<tr>
<th><strong>3.3 Exposure estimation and reference to its source</strong></th>
<th>N/A</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>3.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES</strong></th>
<th>Guidance to check compliance with the exposure scenario:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.</td>
<td></td>
</tr>
</tbody>
</table>
## 4. ES 4  Widespread use by professional workers

### 4.1 TITLE SECTION

<table>
<thead>
<tr>
<th>Exposure Scenario name</th>
<th>Lubricants - Industrial use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date - Version</td>
<td>28/06/2019 - 1.0</td>
</tr>
<tr>
<td>Life Cycle Stage</td>
<td>Widespread use by professional workers</td>
</tr>
<tr>
<td>Main user group</td>
<td>Professional uses</td>
</tr>
<tr>
<td>Sector(s) of use</td>
<td>Professional uses (SU22)</td>
</tr>
</tbody>
</table>

### Environment Contributing Scenario

<table>
<thead>
<tr>
<th>CS1 Solvent-based process</th>
<th>ERC9a - ERC9b</th>
</tr>
</thead>
</table>

### Worker Contributing Scenario

<table>
<thead>
<tr>
<th>CS2 Lubricants</th>
</tr>
</thead>
</table>

### 4.2 Conditions of use affecting exposure

#### 4.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC9a, ERC9b)

<table>
<thead>
<tr>
<th>Environmental release categories</th>
<th>Widespread use of functional fluid (indoor) - Widespread use of functional fluid (outdoor) (ERC9a, ERC9b)</th>
</tr>
</thead>
</table>

#### 4.2. CS2: Worker Contributing Scenario: Lubricants (PROC20, PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18)

| Process Categories | Use of functional fluids in small devices - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - Manufacture or formulation in the chemical industry in batch processes with occasional controlled exposure or processes with equivalent containment condition - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - Transfer of substance or mixture (charging and discharging) at dedicated facilities - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) - Roller application or brushing - Non industrial spraying - Treatment of articles by dipping and pouring - Lubrication at high energy conditions in metal working operations - General greasing/lubrication at high kinetic energy conditions (PROC20, PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18) |

### Product (article) characteristics

#### Physical form of product:

- Liquid

#### Concentration of substance in product:

- Covers percentage substance in the product up to 100%

#### Amount used, frequency and duration of use/exposure

- Covers daily exposures up to 8 hours

### 4.3 Exposure estimation and reference to its source

N/A

### 4.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

N/A
Guidance to check compliance with the exposure scenario:
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
5. ES 5  Widespread use by professional workers

5.1 TITLE SECTION

<table>
<thead>
<tr>
<th>Exposure Scenario name</th>
<th>Lubricants (high power)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date - Version</td>
<td>28/06/2019 - 1.0</td>
</tr>
<tr>
<td>Life Cycle Stage</td>
<td>Widespread use by professional workers</td>
</tr>
<tr>
<td>Main user group</td>
<td>Professional uses</td>
</tr>
<tr>
<td>Sector(s) of use</td>
<td>Professional uses (SU22)</td>
</tr>
</tbody>
</table>

Environment Contributing Scenario

| CS1 Solvent-based process | ERC8a - ERC8d |

Worker Contributing Scenario

| CS2 Lubricants | PROC20 - PROC1 - PROC2 - PROC3 - PROC4 - PROC8a - PROC8b - PROC9 - PROC10 - PROC11 - PROC13 - PROC17 - PROC18 |

5.2 Conditions of use affecting exposure

5.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC8a, ERC8d)

| Environmental release categories | Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d) |

Product (article) characteristics

| Physical form of product: | Liquid |

5.2. CS2: Worker Contributing Scenario: Lubricants (PROC20, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18)

| Process Categories | Use of functional fluids in small devices - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition - Chemical production where opportunity for exposure arises - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - Transfer of substance or mixture (charging and discharging) at dedicated facilities - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) - Roller application or brushing - Non industrial spraying - Treatment of articles by dipping and pouring - Lubrication at high energy conditions in metal working operations - General greasing/lubrication at high kinetic energy conditions (PROC20, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18) |

Product (article) characteristics

| Physical form of product: | Liquid |

| Concentration of substance in product: | Covers percentage substance in the product up to 100 % |

Amount used, frequency and duration of use/exposure

| Duration: | Covers daily exposures up to 8 hours |
### Conditions and measures related to personal protection, hygiene and health evaluation

<table>
<thead>
<tr>
<th><strong>Personal protection</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Wear suitable gloves tested to EN374.</td>
</tr>
</tbody>
</table>

### 5.3 Exposure estimation and reference to its source

N/A

### 5.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

**Guidance to check compliance with the exposure scenario:**

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
6. ES 6 Consumer use; Various products (PC1, PC24, PC31)

6.1 TITLE SECTION

<table>
<thead>
<tr>
<th>Exposure Scenario name</th>
<th>Lubricants (low release)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date - Version</td>
<td>28/06/2019 - 1.0</td>
</tr>
<tr>
<td>Life Cycle Stage</td>
<td>Consumer use</td>
</tr>
<tr>
<td>Main user group</td>
<td>Consumer uses</td>
</tr>
<tr>
<td>Sector(s) of use</td>
<td>Consumer uses (SU21)</td>
</tr>
<tr>
<td>Product Categories</td>
<td>Adhesives, sealants (PC1) - Lubricants, greases, release products (PC24) - Polishes and wax blends (PC31)</td>
</tr>
</tbody>
</table>

Environment Contributing Scenario

<table>
<thead>
<tr>
<th>CS1 Solvent-based process</th>
<th>ERC9a - ERC9b</th>
</tr>
</thead>
</table>

Consumer Contributing Scenario

| CS2 Lubricants                              |               |

6.2 Conditions of use affecting exposure

6.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC9a, ERC9b)

<table>
<thead>
<tr>
<th>Environmental release categories</th>
<th>Widespread use of functional fluid (indoor) - Widespread use of functional fluid (outdoor) (ERC9a, ERC9b)</th>
</tr>
</thead>
</table>

Product (article) characteristics

Physical form of product:
Liquid, vapour pressure < 0.5 kPa at STP

6.2. CS2: Consumer Contributing Scenario: Lubricants

Product (article) characteristics

Physical form of product:
Liquid

Concentration of substance in product:
Covers percentage substance in the product up to 100%.

Amount used, frequency and duration of use/exposure

Frequency:
Covers exposure up to 1 events per day

Other conditions affecting consumers exposure

Temperature: Covers use at ambient temperatures.

6.3 Exposure estimation and reference to its source

N/A

6.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
# 7. ES 7 Consumer use; Various products (PC1, PC24, PC31)

## 7.1 TITLE SECTION

<table>
<thead>
<tr>
<th>Exposure Scenario name</th>
<th>Lubricants (low release)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date - Version</td>
<td>01/07/2019 - 1.0</td>
</tr>
<tr>
<td>Life Cycle Stage</td>
<td>Consumer use</td>
</tr>
<tr>
<td>Main user group</td>
<td>Consumer uses</td>
</tr>
<tr>
<td>Sector(s) of use</td>
<td>Consumer uses (SU21)</td>
</tr>
<tr>
<td>Product Categories</td>
<td>Adhesives, sealants (PC1) - Lubricants, greases, release products (PC24) - Polishes and wax blends (PC31)</td>
</tr>
</tbody>
</table>

### Environment Contributing Scenario

| CS1 Solvent-based process | ERC9a - ERC9b |

### Consumer Contributing Scenario

| CS2 Lubricants | PC24 |
| CS3 Lubricants | PC1  |
| CS4 Lubricants | PC31 - PC23_1, PC31_1 - PC23_2, PC31_2 |

## 7.2 Conditions of use affecting exposure

### 7.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC9a, ERC9b)

| Environmental release categories | Widespread use of functional fluid (indoor) - Widespread use of functional fluid (outdoor) (ERC9a, ERC9b) |

### 7.2. CS2: Consumer Contributing Scenario: Lubricants (PC24)

| Product Categories | Lubricants, greases, release products (PC24) |

### Product (article) characteristics

- **Physical form of product:**
  - Liquid, vapour pressure < 0.5 kPa at STP

- **Concentration of substance in product:**
  - Covers percentage substance in the product up to 100 %.

- **Amount used, frequency and duration of use/exposure**
  - **Frequency:**
    - Covers exposure up to 1 uses per day
  - **Frequency:**
    - Covers exposure up to 4 days per year

- **Other conditions affecting consumers exposure**
  - **Indoor use**
    - **Room size:**
      - Covers use in a one car garage (>34 m³) under typical ventilation.
    - **Temperature:**
      - Covers use at ambient temperatures.
    - **Ventilation rate:**
      - Covers use under typical household ventilation.

### 7.2. CS3: Consumer Contributing Scenario: Lubricants (PC1)

| Product Categories | Adhesives, sealants (PC1) |

### Product (article) characteristics
**Physical form of product:**
Liquid, vapour pressure < 0.5 kPa at STP

**Concentration of substance in product:**
Covers concentrations up to 30%

**Amount used, frequency and duration of use/exposure**

**Frequency:**
Covers use up to 1 uses per day

**Other conditions affecting consumers exposure**

Indoor use
**Room size:** Covers use in room size of 20 m³
**Temperature:** Covers use at ambient temperatures.
**Ventilation rate:** Covers use under typical household ventilation.

---

**7.2. CS4: Consumer Contributing Scenario: Lubricants (PC31)**

**Product Categories**
Polishes and wax blends (PC31)

**Product (Sub-)Categories**
Polishes, wax/cream (floor, furniture, shoes) - Polishes, spray (furniture, shoes) (PC23_1, PC31_1, PC23_2, PC31_2)

**Product (article) characteristics**

**Physical form of product:**
Liquid, vapour pressure < 0.5 kPa at STP

**Concentration of substance in product:**
Covers concentrations up to 50%

**Amount used, frequency and duration of use/exposure**

**Frequency:**
Covers exposure up to 1 uses per day

**Other conditions affecting consumers exposure**

Indoor use
**Room size:** Covers use in room size of 20 m³

---

**7.3 Exposure estimation and reference to its source**

N/A

**7.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES**

**Guidance to check compliance with the exposure scenario:**
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
## 8. ES 8  Consumer use; Adhesives, sealants (PC1)

### 8.1 TITLE SECTION

<table>
<thead>
<tr>
<th>Exposure Scenario name</th>
<th>Lubricants (high release)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date - Version</td>
<td>01/07/2019 - 1.0</td>
</tr>
<tr>
<td>Life Cycle Stage</td>
<td>Consumer use</td>
</tr>
<tr>
<td>Main user group</td>
<td>Consumer uses</td>
</tr>
<tr>
<td>Sector(s) of use</td>
<td>Consumer uses (SU21)</td>
</tr>
<tr>
<td>Product Categories</td>
<td>Adhesives, sealants (PC1)</td>
</tr>
</tbody>
</table>

### Environment Contributing Scenario

| CS1 Waste management           | ERC8a                     |

### Consumer Contributing Scenario

| CS2 Lubricants                 | PC1                       |

### 8.2 Conditions of use affecting exposure

#### 8.2. CS1: Environment Contributing Scenario: Waste management (ERC8a)

| Environmental release categories | Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) |

#### 8.2. CS2: Consumer Contributing Scenario: Lubricants (PC1)

| Product Categories              | Adhesives, sealants (PC1) |

### Product (article) characteristics

| Physical form of product:       | Liquid                    |

### 8.3 Exposure estimation and reference to its source

N/A

### 8.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

**Guidance to check compliance with the exposure scenario:**

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.
### 9. ES 9  Consumer use; Various products (PC39, PC28)

#### 9.1 TITLE SECTION

<table>
<thead>
<tr>
<th>Exposure Scenario name</th>
<th>Consumer other uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date - Version</td>
<td>01/07/2019 - 1.0</td>
</tr>
<tr>
<td>Life Cycle Stage</td>
<td>Consumer use</td>
</tr>
<tr>
<td>Main user group</td>
<td>Consumer uses</td>
</tr>
<tr>
<td>Sector(s) of use</td>
<td>Consumer uses (SU21)</td>
</tr>
<tr>
<td>Product Categories</td>
<td>Cosmetics, personal care products (PC39) - Perfumes, fragrances (PC28)</td>
</tr>
</tbody>
</table>

#### Environment Contributing Scenario

| CS1 Processing of organic liquids | ERC8a - ERC8d |

#### Consumer Contributing Scenario

| CS2 Consumer | PC39 - PC28 |

#### 9.2 Conditions of use affecting exposure

##### 9.2. CS1: Environment Contributing Scenario: Processing of organic liquids (ERC8a, ERC8d)

| Environmental release categories | Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d) |

##### 9.2. CS2: Consumer Contributing Scenario: Consumer (PC39, PC28)

| Product Categories | Cosmetics, personal care products - Perfumes, fragrances (PC39, PC28) |

#### Product (article) characteristics

<table>
<thead>
<tr>
<th>Physical form of product:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
</tr>
</tbody>
</table>

#### 9.3 Exposure estimation and reference to its source

N/A

#### 9.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

**Guidance to check compliance with the exposure scenario:**

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.