

Safety Data Sheet

SVITOL BIKE SUPER DEGREASER




Safety Data Sheet dated 13/9/2023, version 4

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

- 1.1. Product identifier
Mixture identification:
Trade name: SVITOL BIKE SUPER DEGREASER
Trade code: 4474
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Degreaser
Uses advised against:
Strictly adhere to the recommended uses.
- 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
In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111
In Ireland: emergency number 112
In South Africa: Poison Information Helpline 0861 555 777
In Malta: emergency number 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP):
⚠ Danger, Aerosols 1, Extremely flammable aerosol. Pressurized container: may burst if heated.
⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.
⚠ 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:
- 
- Danger
Hazard statements:
H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
Precautionary statements:
P101 If medical advice is needed, have product container or label at hand.

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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. No 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
 propan-2-ol; isopropyl alcohol; isopropanol
 1-methoxy-2-propanol; monopropylene glycol methyl ether

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

Regulation (EC) nr 648/2004 (detergents).

Product contents:

Aliphatic hydrocarbons > 30 %

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

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:

| stta | Name | Ident. Number | Classification |
|-------------------|--|--|--|
| >= 70% - < 80% | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | CAS: 64742-48-9 EC: 919-857-5 REACH No.: 01-2119463258-33 | ⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 3.8/3 STOT SE 3 H336 EUH066 DECLP (CLP)* |
| >= 7% - < 10% | propan-2-ol; isopropyl alcohol; isopropanol | Index number: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 REACH No.: 01-2119457558-25 | ⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.8/3 STOT SE 3 H336 |
| >= 7% - < 10% | 1-methoxy-2-propanol; monopropylene glycol methyl ether | Index number: 603-064-00-3 CAS: 107-98-2 EC: 203-539-1 REACH No.: 01-2119457435 | ⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.8/3 STOT SE 3 H336 |

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| | | | | |
|-----------------|-------------------------------|-------------|-----------------------|--|
| | | | -35 | |
| >= 3% - < 5% | Chilled liquid carbon dioxide | CAS: EC: | 124-38-9 204-696-9 | ◇ 2.5/RL Press Gas (Ref. Liq.) H281 |

*DECLP (CLP): Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008. The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

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.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

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.

Water spray.

Foam

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.

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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
 - propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
 - 20101.11 - TWA: 983 mg/m³, 400 ppm
 - 20101.12 - TWA: 492 mg/m³, 200 ppm
 - ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Notes: A4, BEI - Eye and URT irr, CNS impair
 - 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
 - EU - TWA(8h): 375 mg/m³, 100 ppm - STEL: 563 mg/m³, 150 ppm - Notes: Skin
 - ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - Eye and URT irr
 - Chilled liquid carbon dioxide - CAS: 124-38-9
 - EU - TWA(8h): 9000 mg/m³, 5000 ppm
 - ACGIH - TWA(8h): 5000 ppm - STEL: 30000 ppm - Notes: Asphyxia

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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

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Worker Professional: 888 mg/kg - Consumer: 319 mg/kg - Exposure: Human Dermal - Frequency: Long Term (repeated)

Worker Professional: 500 mg/m³ - Consumer: 89 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term (repeated)

Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term (repeated)

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Consumer: 33 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 369 mg/m³ - Worker Professional: 369 mg/m³ - Consumer: 43.9 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 183 mg/kg - Worker Professional: 183 mg/kg - Consumer: 78 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 553.5 mg/m³ - Worker Professional: 553.5 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 553.5 mg/m³ - Worker Professional: 553.5 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

PNEC Exposure Limit Values

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Target: Fresh Water - Value: 140.9 mg/l

Target: Fresh Water - Value: 140.9 mg/l

Target: Freshwater sediments - Value: 552 mg/l

Target: Soil (agricultural) - Value: 28 mg/kg

Target: Microorganisms in sewage treatments - Value: 2251 mg/l

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Target: Fresh Water - Value: 10 mg/l

Target: Freshwater sediments - Value: 52.3 mg/kg

Target: Marine water sediments - Value: 5.2 mg/kg

Target: Marine water - Value: 1 mg/l

Target: 09 - Value: 100 mg/l

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Compliant with EN 166

Protection for skin:

protective clothing

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

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Method: | Notes: |
|---|-------------------------|---------|--------|
| Physical state: | Liquid | -- | -- |
| Colour: | Colourless | -- | -- |
| Odour: | solvente | -- | -- |
| Melting point/freezing point: | N.A. | -- | -- |
| Boiling point or initial boiling point and boiling range: | N.A. | -- | -- |
| Flammability: | N.A. | -- | -- |
| Lower and upper explosion limit: | N.A. | -- | -- |
| Flash point: | 17°C | IP 170 | -- |
| Auto-ignition temperature: | N.A. | -- | -- |
| Decomposition temperature: | N.A. | -- | -- |
| pH: | Not Relevant | -- | -- |
| Kinematic viscosity: | N.A. | -- | -- |
| Solubility in water: | N.A. | -- | -- |
| Solubility in oil: | N.A. | -- | -- |
| Partition coefficient n-octanol/water (log value): | N.A. | -- | -- |
| Vapour pressure: | N.A. | -- | -- |
| Density and/or relative density: | 0.782 g/cm ² | -- | -- |
| Relative vapour density: | N.A. | -- | -- |
| Particle characteristics: | | | |
| Particle size: | N.A. | -- | -- |

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

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- 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 hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

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- 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
 - The product is classified: Eye Irrit. 2 H319
- 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:

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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

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5840 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 16.4 ml/kg
Test: LC50 - Route: Inhalation - Species: Rat > 10000 Ppm - Duration: 6h

g) reproductive toxicity:

Test: NOAEL(C) - Route: Oral - Species: Rabbit 480 mg/kg

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4016 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 25.8 mg/l - Duration: 6h

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

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

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 9640 mg/l - Duration h: 96
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 48
Endpoint: EC50 - Species: Daphnia > 10000 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae > 1800 mg/l - Duration h: 72

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72
Endpoint: EC50 - Species: Daphnia > 21100 mg/l - Duration h: 48 - Notes: 21100-25900 mg/l
Endpoint: EC50 - Species: Fish = 6812 mg/l - Duration h: 96

12.2. Persistence and degradability

None

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Biodegradability: Readily biodegradable - Duration: .10gg - %: 70

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Biodegradability: 4 - Test: BIOGDG12 - Duration: 28gg - %: 96

12.3. Bioaccumulative potential

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Test: Kow - Partition coefficient -0.43

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

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vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. 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 or ID 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, flammable
IMDG-Shipping Name: AEROSOLS, flammable

14.3. Transport hazard class(es)

ADR-Class: 2
ADR - Hazard identification number: -
IATA-Class: 2
IATA-Label: 2.1
IMDG-Class: 2

14.4. Packing group

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

14.5. Environmental hazards

ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
IMDG-EmS: F-D,
S-U

14.6. Special precautions for user

ADR-Subsidiary hazards: See SP63
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-Subsidiary hazards: See SP63
IMDG-Stowage and handling: SW1 SW22
IMDG-Segregation: SG69

14.7. Maritime transport in bulk according to IMO instruments

N.A.
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) n. 2020/878
 - 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)
 - Regulation (EU) n. 2020/217 (ATP 14 CLP)
 - Regulation (EU) n. 2020/1182 (ATP 15 CLP)
 - Regulation (EU) n. 2021/643 (ATP 16 CLP)
 - Regulation (EU) n. 2021/849 (ATP 17 CLP)
 - Regulation (EU) n. 2022/692 (ATP 18 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:

- Restriction 30
- Restriction 75

Volatile Organic compounds - VOCs = 100.00 %

Volatile Organic compounds - VOCs = 1000.00 g/Kg

Volatile Organic compounds - VOCs = 782.00 g/l

Where applicable, refer to the following regulatory provisions :

- Directive 2012/18/EU (Seveso III)
- Regulation (EC) nr 648/2004 (detergents).
- 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

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.

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EUH066 Repeated exposure may cause skin dryness or cracking.
 H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H281 Contains refrigerated gas; may cause cryogenic burns or injury.

| Hazard class and hazard category | Code | Description |
|----------------------------------|--------|--|
| Aerosols 1 | 2.3/1 | Aerosol, Category 1 |
| Press Gas (Ref. Liq.) | 2.5/RL | Gases under pressure (Refrigerated liquefied gas) |
| Flam. Liq. 2 | 2.6/2 | Flammable liquid, Category 2 |
| Flam. Liq. 3 | 2.6/3 | Flammable liquid, Category 3 |
| Asp. Tox. 1 | 3.10/1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | 3.3/2 | Eye irritation, Category 2 |
| STOT SE 3 | 3.8/3 | Specific target organ toxicity - single exposure, Category 3 |

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification
 SECTION 3: Composition/information on ingredients
 SECTION 4: First aid measures
 SECTION 11: Toxicological 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]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|---|
| Aerosols 1, H222, H229 | On basis of test data |
| Eye Irrit. 2, H319 | Calculation method (Aerosol without propellant) |
| STOT SE 3, H336 | Calculation method (Aerosol without propellant) |

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

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

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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). |
| IMDG: | International Maritime Code for Dangerous Goods. |
| 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

| Substance identity | |
|--------------------|--|
| Chemical name | Hydrocarbons C9-C11 cyclics-iso-alkanes <2% aromatics, declass. ex Notes "p" |
| CAS No. | 64742-48-9 |
| EINECS No. | 919-857-5 |

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1. ES 1 Formulation or re-packing; Solvent-based process

1.1 TITLE SECTION

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

Environment Contributing Scenario

CS1 Wet formulation ERC2

Worker Contributing Scenario

CS2 General exposures PROC5 - PROC1 - PROC2 - PROC3 - PROC4 - PROC8a - PROC8b - PROC9 - PROC14 - PROC15

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

1.2. CS2: Worker Contributing Scenario: General exposures (PROC5, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC14, PROC15)

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) - Tableting, 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

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

| | |
|------------------------|------------------------|
| Exposure Scenario name | Lubricating agent |
| Date - Version | 28/06/2019 - 1.0 |
| Life Cycle Stage | Use at industrial site |
| Main user group | Industrial uses |
| Sector(s) of use | Industrial uses (SU3) |

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

| | |
|------------------------|-----------------------------|
| Exposure Scenario name | Lubricants - Industrial use |
| Date - Version | 28/06/2019 - 1.0 |
| Life Cycle Stage | Use at industrial site |
| Main user group | Industrial uses |
| Sector(s) of use | Industrial uses (SU3) |

Environment Contributing Scenario

| | |
|---------------------------|-------------|
| CS1 Solvent-based process | ERC4 - ERC7 |
|---------------------------|-------------|

Worker Contributing Scenario

| | |
|----------------|---|
| CS2 Lubricants | PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC9 - PROC10 - PROC13 - PROC17 - PROC18 |
|----------------|---|

3.2 Conditions of use affecting exposure

3.2. 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) |
|----------------------------------|---|

Product (article) characteristics

Physical form of product:

Liquid

3.2. 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

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

Technical and organisational conditions and measures

Technical and organisational measures

Use in contained systems

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.

3.3 Exposure estimation and reference to its source

N/A

3.4 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.

4. ES 4 Widespread use by professional workers

4.1 TITLE SECTION

| | |
|-------------------------------|--|
| Exposure Scenario name | Lubricants - Industrial use |
| Date - Version | 28/06/2019 - 1.0 |
| Life Cycle Stage | Widespread use by professional workers |
| Main user group | Professional uses |
| Sector(s) of use | Professional uses (SU22) |

Environment Contributing Scenario

| | |
|----------------------------------|---------------|
| CS1 Solvent-based process | ERC9a - ERC9b |
|----------------------------------|---------------|

Worker Contributing Scenario

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

4.2 Conditions of use affecting exposure

4.2. 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) |
|---|---|

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 closed 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

Duration:

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

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

| | |
|------------------------|--|
| Exposure Scenario name | Lubricants (high power) |
| Date - Version | 28/06/2019 - 1.0 |
| Life Cycle Stage | Widespread use by professional workers |
| Main user group | Professional uses |
| Sector(s) of use | Professional uses (SU22) |

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

Personal protection

Wear suitable gloves tested to EN374.

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

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

Environment Contributing Scenario

| | |
|---------------------------|---------------|
| CS1 Solvent-based process | ERC9a - ERC9b |
|---------------------------|---------------|

Consumer Contributing Scenario

CS2 Lubricants

6.2 Conditions of use affecting exposure

6.2. 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) |
|----------------------------------|---|

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

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

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

Frequency:

Covers exposure up to 365 days per year

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

Frequency:

Covers exposure up to 29 days per year

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

| | |
|------------------------|---------------------------|
| Exposure Scenario name | Lubricants (high release) |
| Date - Version | 01/07/2019 - 1.0 |
| Life Cycle Stage | Consumer use |
| Main user group | Consumer uses |
| Sector(s) of use | Consumer uses (SU21) |
| Product Categories | Adhesives, sealants (PC1) |

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

| | |
|------------------------|--|
| Exposure Scenario name | Cosumer other uses |
| Date - Version | 01/07/2019 - 1.0 |
| Life Cycle Stage | Consumer use |
| Main user group | Consumer uses |
| Sector(s) of use | Consumer uses (SU21) |
| Product Categories | Cosmetics, personal care products (PC39) - Perfumes, fragrances (PC28) |

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

Physical form of product:

Liquid

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.