

# Safety Data Sheet dated 23/9/2024, version 30

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Mixture identification: 6 IN 1 Trade name: 41911 Trade code: 1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended use: spray lubricant 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):

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 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.

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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

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

Regulation (EC) nr 648/2004 (detergents).Product contents:Aliphatic hydrocarbonsThe product also contains:Allergens:PerfumesBenzyl salicylate

> 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	ldent. Numb	er	Classification
>= 70% - < 80%	Hydrocarbons, C9- C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	CAS: EC: REACH No.:	64742-48-9 919-857-5 01- 2119463258 -33	<ul> <li>♦ 2.6/3 Flam. Liq. 3 H226</li> <li>♦ 3.10/1 Asp. Tox. 1 H304</li> <li>♦ 3.8/3 STOT SE 3 H336</li> <li>EUH066</li> <li>DECLP (CLP)*</li> </ul>
>= 3% - < 5%	Chilled liquid carbon dioxide	CAS: EC:	124-38-9 204-696-9	♦ 2.5/RL Press Gas (Ref. Liq.) H281
>= 0,5% - < 1%	Baseoil - unspecified.	CAS: EC: REACH No.:	64742-54-7 265-157-1 01- 2119484627 -25	

\*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.

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\*DECLL (CLP): Substance classified in accordance with Note L, Annex VI of EC Regulation (EC) 1272/2008. The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide 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), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

#### **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

Normal fire-fighting clothing, such as an open-circuit compressed air breathing apparatus (EN 137), flame-resistant suit (EN469), flame-resistant gloves (EN 659) and firefighter's boots (HO A29 or A30).

#### **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures Wear personal protection equipment. Remove all sources of ignition.

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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
  - For cleaning up:

Avoid flame and/or spark near leak and produced waste. Do not smoke. In case of large spills dike,

absorb and shovel up into suitable containers for disposal. Contain small spills with absorbent material.

Put dirty material in suitable container. Dispose of dirty material in accordance with local or national

regulations.

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:

Contamined clothing should be changed before entering eating areas.

- Do not eat or drink while working.
- 7.2. Conditions for safe storage, including any incompatibilities

  Only store in the original container.
  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 adoutable wratilated

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</li>
ACGIH - TWA: 1200 mg/m3, 197 ppm
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

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</li>
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

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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: protective clothing Protection for hands: Nitrile or Viton gloves. Compliant with EN 374. Thickness: Cuff 0.10 mm; Palm 0.12 mm; Fingers 0.145 mm Respiratory protection: Use a suitable respiratory protection device. Thermal Hazards: None Environmental exposure controls: None Appropriate engineering controls: None

## **SECTION 9: Physical and chemical properties**

Properties	Value	Method:	Notes:
Physical state:	Liquid		
Colour:	Amber		
Odour:	Characteristic		
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:	42°C (liquid phase)	IP 170	
Auto-ignition temperature:	N.A.		
Decomposition temperature:	N.A.		
pH:	Not Relevant		

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Kinematic viscosity:	N.A.		
Solubility in water:	Insoluble		
Solubility in oil:	completament e Soluble		completely miscible
Partition coefficient n- octanol/water (log value):	N.A.		
Vapour pressure:	N.A.		
Density and/or relative density:	0,81 g/cm3	ASTM D 4052-96	
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
- Stable under normal conditions 10.2. Chemical stability
  - Stable at normal ambient temperatures and when used as recommended.
- 10.3. Possibility of hazardous reactions None
- 10.4. Conditions to avoid Excessive heat.
- 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:

- 6 IN 1 150 ml
- 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

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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 i) 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 i) 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 i) aspiration hazard: Test: May be fatal if swallowed and enters airways (physical-chemical properties) Positive 11.2. Information on other hazards Endocrine disrupting properties: No endocrine disruptor substances present in concentration >= 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: Daphina 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

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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: 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. Endocrine disrupting properties No endocrine disruptor substances present in concentration >= 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. Additional disposal information:

"Use in accordance with good working practices, avoiding dispersal in the environment. Do not discharge into drains, ground water or water courses. Comply with current legislation on the protection of water and soil from pollution (Legislative Decree No. 152 of 3/4/2006). Dispose of used product and containers by handing them over to authorised companies, in accordance with the provisions of

Legislative Decree No. 152/2006 (Consolidated Environmental Act, which replaced the Ronchi Decree) as amended.

The used product is to be considered special waste to be classified in accordance with Directive No. 2008/98/EC on waste and related matters. Recover if possible. Send to authorised disposal plants or incineration under

controlled conditions (152/2006 art. 184).

Act in accordance with the local and national laws in force.

Contaminated packaging must be emptied as far as possible. After cleaning, send to an authorised centre for recycling or disposal."

## **SECTION 14: Transport information**



14.1. UN number or ID number
ADR-UN Number:
IATA-UN Number:
IMDG-UN Number:
14.2. UN proper shipping name
ADR-Shipping Name:
IATA-Shipping Name:

1950 1950

1950

AEROSOLS, flammable AEROSOLS, flammable

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	ADe:
IMDG-Shipping Name:	AEROSOLS, flammable
14.3. Transport hazard class(es)	
ADR-Class:	2
ADR - Hazard identification nur	
IATA-Class: IATA-Label:	2 2.1
IMDG-Class:	2.1
Sea (IMO):	2 2 UN 1950
14.4. Packing group	2 UN 1950
ADR-Packing Group:	_
IATA-Packing group:	
IMDG-Packing group:	_
14.5. Environmental hazards	
ADR-Enviromental 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 (Tunn	
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:	
IMDG-Segregation:	SG69
14.7. Maritime transport in bulk accor	and to INO instruments
N.A. Limited Quantity: 11	
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)

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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 75

Volatile Organic compounds - VOCs = 74.49 % Volatile Organic compounds - VOCs = 744.87 g/Kg Volatile Organic compounds - VOCs = 603.34 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: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics</p>

## **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.

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

Paragraphs modified from the previous revision:

SECTION 6: Accidental release measures SECTION 7: Handling and storage SECTION 8: Exposure controls/personal protection SECTION 10: Stability and reactivity

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#### SECTION 13: Disposal considerations

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 2, H223, H229	On basis of test data	
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 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
0/10.	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

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WGK: German Water Hazard Class.



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# 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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- 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 Formu	ulation or re-packing; Solvent-base	d 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 prepara	ations and/or re-packaging (SU10)	
Environment Contributing Sce	nario		
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 Contrib	uting Scenario: Wet formulation (ERC2)		
Environmental release categories	Formulation into mixture (ERC2)		
Product (article) characteri	stics		
Physical form of product: Liquid			
-	Scenario: General exposures (PROC5, PROC1, PRO	OC2, PROC3, PROC4, PROC8a,	
PROC8b, PROC9, PROC14, PROC15)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

# Guidance to check compliance with the exposure scenario:

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 Sce	nario		
CS1 Solvent-based process		ERC4 - ERC7	
Worker Contributing Scenario			
CS2 General measures applicable	CS2 General measures applicable to all activities PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC9 PROC10 - PROC13 - PROC17 - PROC1		
2.2 Conditions of use	affecting exposure		
2.2. CS1: Environment Contrib	uting Scenario: Solvent-based process (ERC4, ERC	7)	
Environmental release			
categoriesfunctional 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)			
<ul> <li>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)</li> </ul>			
Product (article) characteristics			
Physical form of product: Liquid			
Amount used, frequency and	l 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

# 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:

3. ES 3 Use	at industrial site		
<b>3.1 TITLE SECTION</b>			
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	Industrial uses	
Sector(s) of use	Industrial uses (SU3)	Industrial uses (SU3)	
Environment Contributing Se	cenario		
CS1 Solvent-based process		ERC4 - ERC7	
Worker Contributing Scenar	o		
CS2 Lubricants		PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC9 - PROC10 - PROC13 - PROC17 - PROC18	
3.2 Conditions of us	e affecting exposure		
3.2. CS1: Environment Contr	ibuting Scenario: Solvent-based process (ERC4, ERC	27)	
Environmental release categories	Use of non-reactive processing aid at industrial site (r functional fluid at industrial site (ERC4, ERC7)	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) characte	ristics		
Physical form of product: Liquid			
3.2. CS2: Worker Contributin PROC9, PROC10, PROC13, PR	g Scenario: Lubricants (PROC1, PROC2, PROC3, PRO	OC4, PROC7, PROC8a, PROC8b,	
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) characte			
Physical form of product: Liquid			
<b>Concentration of substance</b> Covers percentage substance in			
Amount used, frequency and duration of use/exposure			
Duration: Covers daily exposures up to 8	hours		
Technical and examinational conditions and measures			

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:

# 4. ES 4 Widespread use by professional workers

# **4.1 TITLE SECTION**

4.1 IIILE 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)		
Use of functional fluids in small devices - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions -		

 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:

#### Widespread use by professional workers 5. ES 5 **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 Professional uses Main user group Sector(s) of use Professional uses (SU22) **Environment Contributing Scenario** ERC8a - ERC8d **CS1 Solvent-based process Worker Contributing Scenario** PROC20 - PROC1 - PROC2 - PROC3 -PROC4 - PROC8a - PROC8b - PROC9 -**CS2** Lubricants PROC10 - PROC11 - PROC13 - PROC17 - PROC18 5.2 Conditions of use affecting exposure 5.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC8a, ERC8d) Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) -**Environmental release** Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) categories (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) 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-**Process Categories** 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:

# 6. ES 6 Consumer use; Various products (PC1, PC24, PC31)

# 6.1 TITLE SECTION

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 Sce	nario	
CS1 Solvent-based process		ERC9a - ERC9b
Consumer Contributing Scena	rio	
CS2 Lubricants		
6.2 Conditions of use	affecting exposure	
6.2. CS1: Environment Contrib	uting Scenario: Solvent-based process (ERC9a, ER	C9b)
Environmental release categories	Widespread use of functional fluid (indoor) - Widespreid (ERC9a, ERC9b)	ead use of functional fluid (outdoor)
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:

# 7. ES 7 Consumer use; Various products (PC1, PC24, PC31)

# **7.1 TITLE SECTION**

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 Sce	nario	
CS1 Solvent-based process		ERC9a - ERC9b
Consumer Contributing Scena	rio	
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 Contrib	uting Scenario: Solvent-based process (ERC9a, ER	C9b)
Environmental release categories	Widespread use of functional fluid (indoor) - Widespread use of functional fluid (outdoor) (ERC9a, ERC9b)	
earchonics		
	ng Scenario: Lubricants (PC24)	
7.2. CS2: Consumer Contribute Product Categories Product (article) charactere	ng Scenario: Lubricants (PC24) Lubricants, greases, release products (PC24)	
7.2. CS2: Consumer Contribut	ing Scenario: Lubricants (PC24) Lubricants, greases, release products (PC24)	
7.2. CS2: Consumer Contribut Product Categories Product (article) character Physical form of product:	ing Scenario: Lubricants (PC24) Lubricants, greases, release products (PC24) istics at STP product:	
7.2. CS2: Consumer Contribution Product Categories Product (article) characteries Physical form of product: Liquid, vapour pressure < 0,5 kPa Concentration of substance in	ing Scenario: Lubricants (PC24) Lubricants, greases, release products (PC24) istics at STP product: he product up to 100 %.	
7.2. CS2: Consumer Contribution Product Categories Product (article) characteria Physical form of product: Liquid, vapour pressure < 0,5 kPa Concentration of substance in Covers percentage substance in the	ing Scenario: Lubricants (PC24) Lubricants, greases, release products (PC24) istics at STP product: he product up to 100 %. d duration of use/exposure	
<ul> <li>7.2. CS2: Consumer Contribution</li> <li>Product Categories</li> <li>Product (article) characteria</li> <li>Physical form of product: Liquid, vapour pressure &lt; 0,5 kPa</li> <li>Concentration of substance in the Covers percentage substance in the Amount used, frequency and Frequency:</li> </ul>	ing Scenario: Lubricants (PC24) Lubricants, greases, release products (PC24) istics at STP product: he product up to 100 %. d duration of use/exposure day	
<ul> <li>7.2. CS2: Consumer Contribution</li> <li>Product Categories</li> <li>Product (article) characteria</li> <li>Physical form of product: Liquid, vapour pressure &lt; 0,5 kPar</li> <li>Concentration of substance in the Covers percentage substance in the Cover</li></ul>	Ing Scenario: Lubricants (PC24) Lubricants, greases, release products (PC24) istics at STP product: he product up to 100 %. d duration of use/exposure day year	
<ul> <li>7.2. CS2: Consumer Contribution</li> <li>Product Categories</li> <li>Product (article) characteria</li> <li>Physical form of product: Liquid, vapour pressure &lt; 0,5 kPa</li> <li>Concentration of substance in the Covers percentage substance in the Amount used, frequency and</li> <li>Frequency: Covers exposure up to 1 uses per</li> <li>Frequency: Covers exposure up to 4 days per</li> <li>Other conditions affecting content</li> </ul>	Ing Scenario: Lubricants (PC24) Lubricants, greases, release products (PC24) Stics at STP product: he product up to 100 %. d duration of use/exposure day year onsumers exposure garage (>34 m <sup>3</sup> ) under typical ventilation. ht temperatures.	
<ul> <li>7.2. CS2: Consumer Contribution</li> <li>Product Categories</li> <li>Product (article) characteries</li> <li>Physical form of product: <ul> <li>Liquid, vapour pressure &lt; 0,5 kPa</li> </ul> </li> <li>Concentration of substance in the covers percentage substance substance substance substance substance substance substance s</li></ul>	Ing Scenario: Lubricants (PC24) Lubricants, greases, release products (PC24) istics at STP product: he product up to 100 %. If duration of use/exposure day year onsumers exposure garage (>34 m <sup>3</sup> ) under typical ventilation. ht temperatures. typical household ventilation.	
<ul> <li>7.2. CS2: Consumer Contribution</li> <li>Product Categories</li> <li>Product (article) characteria</li> <li>Physical form of product:</li> <li>Liquid, vapour pressure &lt; 0,5 kPar</li> <li>Concentration of substance in the Covers percentage substance in the Covers percentage substance in the Covers percentage substance in the Covers exposure up to 1 uses per the Covers exposure up to 1 uses per the Covers exposure up to 4 days per the Covers exposure up to 4 days per the Covers use in a one car get the Covers use in a one car get the Covers use in a one car get the Covers use under the Covers use use under the Covers use use use use use use use use use us</li></ul>	Ing Scenario: Lubricants (PC24) Lubricants, greases, release products (PC24) istics at STP product: he product up to 100 %. If duration of use/exposure day year onsumers exposure garage (>34 m <sup>3</sup> ) under typical ventilation. ht temperatures. typical household ventilation.	

## 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 m<sup>3</sup>

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 m<sup>3</sup>

# 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:

## Consumer use; Adhesives, sealants (PC1) 8. ES 8 **8.1 TITLE SECTION** Lubricants (high release) **Exposure Scenario name** 01/07/2019 - 1.0 **Date - Version** 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** Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) categories (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:

## Consumer use; Various products (PC39, PC28) 9. ES 9 **9.1 TITLE SECTION Exposure Scenario name** Cosumer other uses 01/07/2019 - 1.0 **Date - Version** Life Cycle Stage Consumer use Main user group Consumer uses Sector(s) of use Consumer uses (SU21) Cosmetics, personal care products (PC39) - Perfumes, fragrances (PC28) **Product Categories 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: