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

1.1. Product identifier

Product name / Trade name
Octyldodecanol

Substance name	2-Octyldodecan-1-ol
REACH Registration Number	01-2119488016-36

Identification Number

CAS-No.	5333-42-6
EC-No.	226-242-9

1.2. Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the mixture
Initial product for chemical reactions
Slip agent / lubricant
Metal-working product
Plasticiser
Cosmetic auxiliary

Uses advised against
No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Company
SysKem Chemie GmbH
Brucknerweg 26
D-42289 Wuppertal

Telephone	+49 (0) 202/30999510
Telefax	+49 (0) 202/87088403
E-mail address	info@syskem.de

Prepared by / E-mail address of person responsible for the SDS
info@syskem.de

1.4. Emergency telephone number

Vergiftungs-Informations-Zentrale Freiburg, Tel. +49 761 19240.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
The substance is not classified, according to the CLP regulation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Void

Hazard pictograms (CLP)
Void

Signal word (CLP)
Void

Hazard statements (CLP)
Void

Precautionary statements (CLP)
Void

2.3. Other hazards

Results of PBT and vPvB assessment
The substance is not classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterisation:
Substances 2-Octyldodecan-1-ol

CAS No.	**Description**
5333-42-6	2-Octyldodecanol

Identification number(s)
EC number: 226-242-9

SVHC
The product does not contain any substances of very high concern (SVHC).

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice:
No special measures required.

If inhaled:
Supply fresh air; consult doctor in case of complaints.

In case of skin contact:
If skin irritation continues, consult a doctor.

In case of eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

If swallowed:
Rinse out mouth and then drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
CO 2 , powder or water spray. Fight larger fire with alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media:
Water with full jet.

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Protective equipment:
Wear suitable protective clothing in dangerous zone

Additional information
Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not required.

6.2. Environmental precautions

No special measures required.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4. Reference to other sections

No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling
No special measures required.

Advice on protection against fire and explosion
No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles:
Suitable material for receptacles and pipes: steel or stainless steel.

Information about storage in one common storage facility:
Not required.

Further information about storage conditions:
None.

Maximum storage temperature:
35°C

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:
Not required!

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

8.2. Exposure controls

Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:
Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:
Protective gloves

Material of gloves:
Nitrile rubber

Penetration time of glove material
Glove material: Nitrile rubber
Layer thickness: 0.10 mm
Penetration time: > 480 min (Level 6)

For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:
Nitrile rubber (i.e. KCL 740 nitrile disposable gloves Dermatril®)

Eye protection:
Safety glasses

Body protection:
Protective work clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information	
Appearance:	
Form	: Liquid
Colour	: Colourless
Odour	: Odourless
Odour threshold	: Not determined.
pH-value	: Not determined.
Change in condition	
Meltig point /Melting range	: Not determined.
Initial boiling point and boiling range	: > 300 °C
Drip point:	
Pour point	: < -25 ° C
Cloud point / clarification point	: < - 20 ° C
Flash point	: 180 °C
Flammability (solid, gas)	: Not applicable.
Ignition temperature	: > 230 °C
Decomposition temperature	: Not determined.
Auto-ignition temperature	: Not determined.
Explosive properties	: Product does not present an explosion hazard.
Explosion limits:	
Lower	: Not determined.
Upper	: Not determined.
Oxidising properties	: Not oxidizing.
Vapour pressure at 20 °C	: < 0.01 hPa
Density at 20 °C	: 0.84 g/cm3
Relative density	: Not determined.
Vapour density	: Not determined.
Evaporation rate	: Not determined.
Solubility in / Miscibility with water	: Not determined.
Partition coefficient n-octanol/water (log P)	: > 7
Viscosity:	
Dynamic	: 20 °C: 58 - 64 mPas
Kinematic	: 40 °C: 25 - 30 mm2/s

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

Reacts with strong acids and oxidising agents.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Oral	LD50	> 39,255 mg/kg (rat) (OECD 401) read across
Dermal	LD50	> 2,000 mg/kg (rat) read across

Based on available data, the classification criteria are not met.

Repeated dose toxicity

Oral	NOAEL	1,000 mg/kg (rat) (OECD 408) read across

Skin corrosion/irritation
No irritant effect.

Serious eye damage/eye irritation
No irritant effect.

Respiratory or skin sensitisation
No sensitizing effects known.

Germ cell mutagenicity

Genotoxicity – AMES-Test	(Salmonella Typhymurium) (OECD 471) negative (read across)
Genotoxicity - Mammalian Cell Gene Mutation Assay	(Chinese Hamster Ovary Cells) (OECD 476) negative (read across)
Genotoxicity - Chromosome aberration assay	(Lymphocytes) (OECD 473) negative (read across)

Based on available data, the classification criteria are not met.

Carcinogenicity
not carcinogenic

Reproductive toxicity

Oral	Developmental toxicity - NOAEL	2,000 mg/kg (rat) (OECD 414) read across
	Reproductive toxicity – NOAEL	1,000 mg/kg (rat) (OECD 415) read across

Based on available data, the classification criteria are not met.

STOT - single exposure
Based on available data, the classification criteria are not met.

STOT - repeated exposure
Based on available data, the classification criteria are not met.

Aspiration toxicity
Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

EC50	> 100 mg/l (algea) (OECD 201)
	read across
	> 1,600 mg/l (daphnia) (OECD 202)
LC50	> 10,000 mg/l (fish) (OECD 203)

12.2 Persistence and degradability

Easily biodegradable

Method	OECD 301 F
Analysing method	O 2 -consumption
Degree of elimination:	> 65 %
Classification:	readily biodegradable

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

The substance is not classified as PBT or vPvB.

12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation
On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.
Smaller quantities can be disposed of with household waste.

Uncleaned packaging:
Recommendation:
Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Toxic Substances Control Act (TSCA): Substance is listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS): Substance is listed.
Inventory of Existing Chemical Substances in China (IECSC): Substance is listed.
Australian Inventory of Chemical Substances (AICS): Substance is listed.
Existing and New Chemical Substances (ENCS, Japan): 2-217
Korean Existing Chemical Inventory (KECI): KE26739
Canadian Domestic Substances List (DSL): Substance is listed.
Existing Chemical Substances Inventory (ECSI, Taiwan): Substance is listed.
New Zealand Inventory of Chemicals (NZIC): Substance is listed.

Labelling according to Regulation (EC) No 1272/2008
Void
Hazard pictograms Void
Signal word Void
Hazard statements Void

Directive 2012/18/EU
Named dangerous substances - ANNEX I Substance is not listed.

National regulations:
Other regulations, limitations and prohibitive regulations
Substances of very high concern (SVHC) according to REACH, Article 57
The product does not contain any substances of very high concern (SVHC).

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Further information
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Full text of H- and EUH-statements
Void.

Data sources
ECHA (European Chemicals Agency).

Department issuing SDS
Product Safety

Reasons for changes
Section 1

Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
NOAEL: No observed advers effect level
NOAEC: No observed advers effect concentration
LOAEL: Lowest observed advers effect level
LOAEC: Lowest observed advers effect concentration
NOEL: No observed effect level
NOEC: No observed effect concentration
LOEC: Lowest observed effect concentration
BCF: Bio concentration factor
EC50: Effect concentration, 50 percent

Annex Use and Exposer

1. Identified uses

The identified uses for 2-octyldodecanol are described in terms of the standard descriptor codes in Tables 1.1, 1.2, 1.3, 1.4 and 1.5:

Table 1.1 Formulation

	Formulation
F-1	**Formulation of preparation** Further description of the use: Contributing activity/technique for the environment : **- (ERC2 ; ERC3)** Contributing activity/technique for the workers : **- (PROC 1 ; PROC 2 ; PROC 3 ; PROC 4 ; PROC 8a ; PROC 8b ; PROC 9 ; PROC 15)** **Product Category formulated:** PC 19: Intermediate ; PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents ; PC 21: Laboratory chemicals **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage tured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such *Related assessment:*
F-2	**Formulation of construction chemicals** Further description of the use: Contributing activity/technique for the environment : **- (ERC2)** Contributing activity/technique for the workers : **- (PROC 3 ; PROC 5 ; PROC 8a ; PROC 8b ; PROC 9)** **Product Category formulated:** PC 1: Adhesives, sealants ; PC 9b: Fillers, putties, plasters, modelling clay **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage tured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such *Related assessment:*
F-4	**Industrial production of cosmetics** Further description of the use: Contributing activity/technique for the environment : **- (ERC2)** Contributing activity/technique for the workers : **- (PROC 1 ; PROC 2 ; PROC 3 ; PROC 4 ; PROC 5 ; PROC 8a ; PROC 8b ; PROC 9 ; PROC 14 ; PROC 15)** **Product Category formulated:** PC 28: Perfumes, fragrances ; PC 29: Pharmaceuticals ; PC 39: Cosmetics, personal care products **Technical function of the substance: i**ntermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage tured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such *Related assessment:*

F-5	**Production of lubricants** Further description of the use: Contributing activity/technique for the environment : **- (ERC2)** Contributing activity/technique for the workers : **- (PROC 3 ; PROC 4 ; PROC 5 ; PROC 8a ; PROC 8b ; PROC 9 ; PROC 15)** **Product Category formulated:** PC 17: Hydraulic fluids ; PC 24: Lubricants, greases, release products ; PC 25: Metal working fluids **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage tured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such *Related assessment:*
F-7	**Industrial production of cleaning products** Further description of the use: Contributing activity/technique for the environment : **- (ERC2)** Contributing activity/technique for the workers : **- (PROC 1 ; PROC 2 ; PROC 3 ; PROC 4 ; PROC 5 ; PROC 8a ; PROC 8b ; PROC 9 ; PROC 10 ; PROC 14 ; PROC 15)** **Product Category formulated:** PC 8: Biocidal products (e.g. disinfectants, pest control) ; PC 35: Washing and cleaning products (including solvent based products) **Technical function of the substance: i**ntermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage tured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such *Related assessment:*
F-9	**Production of coatings and inks** Further description of the use: Contributing activity/technique for the environment : **- (ERC2)** Contributing activity/technique for the workers : **- (PROC 1 ; PROC 2 ; PROC 3 ; PROC 5 ; PROC 8a ; PROC 8b ; PROC 9)** **Product Category formulated:** PC 9a: Coatings and paints, thinners, paint removes ; PC 9b: Fillers, putties, plasters, modelling clay ; PC 9c: Finger paints ; PC 18: Ink and toners **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage tured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such *Related assessment:*

F-12	**Laboratory reagent** Further description of the use: Contributing activity/technique for the environment : **- (ERC2)** Contributing activity/technique for the workers : **- (PROC 15)** **Product Category formulated:** PC 8: Biocidal products (e.g. disinfectants, pest control) ; PC 35: Washing and cleaning products (including solvent based products) ; PC 37: Water treatment chemicals ; PC 39: Cosmetics, personal care products **Technical function of the substance:** solvent ; laboratory chemicals use registered according to REACH Article 10; total tonnage tured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such ; in a mixture *Related assessment:*

Table 1.2 Uses at industrial sites

	Uses at industrial sites
IW-3	**Industrial use of construction chemicals** Further description of the use: Contributing activity/technique for the environment : **- (ERC4 ; ERC5)** Contributing activity/technique for the workers : **- (PROC 7 ; PROC 8b ; PROC 10 ; PROC 13 ; PROC 14)** **Sector of end use:** SU 13: Manufacture of other non-metallic mineral products, e.g. plasters, cement ; SU 19: Building and construction work **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such ; in a mixture Subsequent service life relevant for that use: no
IW-4	**Industrial production of cosmetics** Further description of the use: Contributing activity/technique for the environment : **- (ERC4)** Contributing activity/technique for the workers : **- (PROC 1 ; PROC 2 ; PROC 3 ; PROC 4 ; PROC 5 ; PROC 8a ; PROC 8b ; PROC 9 ; PROC 14 ; PROC 15)** **Product Category used:** PC 28: Perfumes, fragrances ; PC 29: Pharmaceuticals ; PC 39: Cosmetics, personal care products **Technical function of the substance**: intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such Subsequent service life relevant for that use: no
IW-6	**Use of lubricants** Further description of the use: Contributing activity/technique for the environment : **- (ERC4 ; ERC7)** Contributing activity/technique for the workers : **- (PROC 1 ; PROC 2 ; PROC 3 ; PROC 4 ; PROC 5 ; PROC 8a ; PROC 8b ; PROC 9 ; PROC 17 ; PROC 18)** **Product Category used:** PC 17: Hydraulic fluids ; PC 24: Lubricants, greases, release products ; PC 25: Metal working fluids **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such ; in a mixture Subsequent service life relevant for that use: yes Link to the subsequent service life: Industrial use of lubricants

IW-8	**Industrial use of cleaning products** Further description of the use: Contributing activity/technique for the environment : **- (ERC4 ; ERC7)** Contributing activity/technique for the workers : **- (PROC 1 ; PROC 2 ; PROC 3 ; PROC 4 ; PROC 7 ; PROC 8a ; PROC 8b ; PROC 9 ; PROC 10 ; PROC 11 ; PROC 13)** **Product Category used:** PC 35: Washing and cleaning products (including solvent based products) **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such ; in a mixture Subsequent service life relevant for that use: no
IW-9	**Production of coatings and inks** Further description of the use: Contributing activity/technique for the environment : **- (ERC4 ; ERC5)** Contributing activity/technique for the workers : **- (PROC 1 ; PROC 2 ; PROC 3 ; PROC 5 ; PROC 8a ; PROC 8b ; PROC 9)** **Product Category used:** PC 9a: Coatings and paints, thinners, paint removes ; PC 9b: Fillers, putties, plasters, modelling clay ; PC 9c: Finger paints ; PC 18: Ink and toners **Sector of end use:** SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys) Technical function of the substance: intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such Subsequent service life relevant for that use: no
IW-10	**Industrial use of coatings and inks** Further description of the use: Contributing activity/technique for the environment : **- (ERC4 ; ERC5)** Contributing activity/technique for the workers : **- (PROC 2 ; PROC 3 ; PROC 4 ; PROC 5 ; PROC 7 ; PROC 8a ; PROC 8b ; PROC 10 ; PROC 13)** **Product Category used:** PC 9a: Coatings and paints, thinners, paint removes ; PC 9b: Fillers, putties, plasters, modelling clay ; PC 18: Ink and toners **Sector of end use:** SU 7: Printing and reproduction of recorded media Technical function of the substance: intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: as such ; in a mixture Subsequent service life relevant for that use: no

IW-11	**Industrial spraying** Further description of the use: Contributing activity/technique for the environment : **- (ERC5)** Contributing activity/technique for the workers : **- (PROC 7)** **Product Category used:** PC 24: Lubricants, greases, release products **Sector of end use:** SU 15: Manufacture of fabricated metal products, except machinery and equipment ; SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment Technical function of the substance: lubricating agent use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Substance supplied to that use: in a mixture Subsequent service life relevant for that use: yes Link to the subsequent service life: Industrial use of lubricants

Table 1.3 Uses by professional workers

	Uses by professional workers
PW-1	**Professional use of construction chemicals** Further description of the use: Contributing activity/technique for the environment : **- (ERC8a ; ERC8c ; ERC8d ; ERC8f)** Contributing activity/technique for the workers : **- (PROC 8a ; PROC 8b ; PROC 10 ; PROC 11 ; PROC 13 ; PROC 19)** **Sector of end use:** SU 19: Building and construction work **Technical function of the substance: i**ntermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: yes Link to the subsequent service life: Use of lubricants
PW-2	**Professional production of cosmetics** Further description of the use: Contributing activity/technique for the environment : **- (ERC8a)** Contributing activity/technique for the workers : **- (PROC 1 ; PROC 2 ; PROC 3 ; PROC 4 ; PROC 5 ; PROC 8a ; PROC 8b ; PROC 9 ; PROC 14 ; PROC 15)** **Product Category used:** PC 28: Perfumes, fragrances ; PC 29: Pharmaceuticals ; PC 39: Cosmetics, personal care products **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no
PW-3	**Professional production of lubricants** Further description of the use: Contributing activity/technique for the environment : **- (ERC8a ; ERC8c ; ERC8d ; ERC8f ; ERC9a ; ERC9b)** Contributing activity/technique for the workers : **- (PROC 3 ; PROC 4 ; PROC 5 ; PROC 8a ; PROC 8b ; PROC 9 ; PROC 15)** **Product Category used:** PC 17: Hydraulic fluids ; PC 24: Lubricants, greases, release products ; PC 25: Metal working fluids **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no

PW-4	**Professional use of lubricants** Further description of the use: Contributing activity/technique for the environment : **- (ERC8a ; ERC9a ; ERC9b)** Contributing activity/technique for the workers : **- (PROC 1 ; PROC 2 ; PROC 3 ; PROC 4 ; PROC 8a ; PROC 8b ; PROC 9 ; PROC 10 ; PROC 11 ; PROC 13 ; PROC 15 ; PROC 20)** **Product Category used:** PC 17: Hydraulic fluids ; PC 24: Lubricants, greases, release products ; PC 25: Metal working fluids **Sector of end use:** SU 11: Manufacture of rubber products ; SU 12: Manufacture of plastics products, including compounding and conversion ; SU 16: Manufacture of computer, electronic and optical products, electrical equipment ; SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment Technical function of the substance: intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: yes Link to the subsequent service life: Use of lubricants
PW-5	**Professional production of cleaning products** Further description of the use: Contributing activity/technique for the environment : **- (ERC8a)** Contributing activity/technique for the workers : **- (PROC 1 ; PROC 2 ; PROC 3 ; PROC 4 ; PROC 5 ; PROC 8a ; PROC 8b ; PROC 9 ; PROC 14 ; PROC 15)** **Product Category used:** PC 35: Washing and cleaning products (including solvent based products) **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no
PW-6	**Professional use of cleaning products** Further description of the use: Contributing activity/technique for the environment : **- (ERC8a ; ERC8b ; ERC8c)** Contributing activity/technique for the workers : **- (PROC 1 ; PROC 2 ; PROC 3 ; PROC 4 ; PROC 7 ; PROC 8a ; PROC 8b ; PROC 9 ; PROC 10 ; PROC 11 ; PROC 13 ; PROC 15 ; PROC 19)** **Product Category used:** PC 8: Biocidal products (e.g. disinfectants, pest control) ; PC 35: Washing and cleaning products (including solvent based products) **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no

PW-7	**Professional use of coatings and inks** Further description of the use: Contributing activity/technique for the environment : **- (ERC8a ; ERC8c ; ERC8d ; ERC8f)** Contributing activity/technique for the workers : **- (PROC 2 ; PROC 3 ; PROC 4 ; PROC 5 ; PROC 8a ; PROC 10 ; PROC 11 ; PROC 19)** **Product Category used:** PC 9a: Coatings and paints, thinners, paint removes ; PC 9b: Fillers, putties, plasters, modelling clay ; PC 9c: Finger paints ; PC 18: Ink and toners **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no
PW-12	**Non-industrial spraying** Further description of the use: Contributing activity/technique for the environment : **- (ERC8c ; ERC8f)** Contributing activity/technique for the workers : **- (PROC 11)** **Product Category used:** PC 24: Lubricants, greases, release products **Sector of end use:** SU 15: Manufacture of fabricated metal products, except machinery and equipment ; SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment **Technical function of the substance:** lubricating agent use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: yes Link to the subsequent service life: Use of lubricants

Table 1.4. Uses by consumers

	Consumer use
C-1	**Consumer use of construction chemicals** Further description of the use: Contributing activity/technique for the environment: Contributing activity/technique for consumers: intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no
C-2	**Consumer use of cosmetics** Further description of the use: Contributing activity/technique for the environment: **- (ERC8a)** Contributing activity/technique for consumers: **- Product category (PC): PC 28 ; PC 29 ; PC 39** **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no Remarks: Migrated to IUCLID6: yes
C-3	**Consumer use of lubricants and adhesives** Further description of the use: Contributing activity/technique for the environment: **- (ERC9a ; ERC9b)** Contributing activity/technique for consumers: **- Product category (PC): PC 17 ; PC 24** **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no
C-4	**Consumer use of cleaning agents** Further description of the use: Contributing activity/technique for the environment: **- (ERC8a ; ERC8b ; ERC8c)** Contributing activity/technique for consumers: **- Product category (PC): PC 3 ; PC 8 ; PC 31 ; PC 35** **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no

C-5	Consumer use of coatings and inks Further description of the use: Contributing activity/technique for the environment: **- (ERC8a ; ERC8c ; ERC8d ; ERC8f)** Contributing activity/technique for consumers: **- Product category (PC): PC 9a ; PC 9b ; PC 9c ; PC 18** **Technical function of the substance**: intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Subsequent service life relevant for that use: no

Table 1.5 Articles in service life

	Article service life
SL-6	**Industrial use of lubricants** Further description of the use: Article used by: workers Substance intended to be released from article: no **Article category related to subsequent service life (AC):** AC 1: Vehicles ; AC1b: Other vehicles ; AC 2: Machinery, mechanical appliances, electrical/electronic articles Contributing activity/technique for the environment: **- (ERC10a ; ERC11a ; ERC12a ; ERC12c)** Contributing activity/technique for consumers: Contributing activity/technique for the workers: **- (PROC 1 ; PROC 2)** **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface modifier use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Regulatory status: use as fuel in mobile or fixed combustion plants of mineral oil products and use as fuels in closed systems [EU REACH]. Tonnage of substance for that use: tonnes/year *Related assessment: use not assessed*
SL-3	**Professional production of lubricants** Further description of the use: Article used by: workers Substance intended to be released from article: **Article category related to subsequent service life (AC):** AC 1: Vehicles ; AC 2: Machinery, mechanical appliances, electrical/electronic articles Contributing activity/technique for the environment: **- (ERC2)** Contributing activity/technique for consumers: Contributing activity/technique for the workers: **- (PROC 1 ; PROC 2)** **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year
SL-4	**Use of lubricants** Further description of the use: Article used by: workers ; consumers Substance intended to be released from article: **Article category related to subsequent service life (AC):** AC 2: Machinery, mechanical appliances, electrical/electronic articles ; AC 5: Fabrics, textiles and apparel ; AC 10: Rubber articles ; AC 13: Plastic articles Contributing activity/technique for the environment: **- (ERC10a ; ERC11a ; ERC12c)** Contributing activity/technique for consumers: **- Article Category (AC): AC 2 ; AC 5 ; AC 10 ; AC 13** Contributing activity/technique for the workers: **Technical function of the substance:** intermediate (precursor) ; lubricating agent ; surface active agents ; binding agents (resin or (pre)polymers in coatings and adhesives), laboratory chemicals use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year

SL-2	**Cosmetic products** Further description of the use: Article used by: consumers Substance intended to be released from article: yes **Article category related to subsequent service life (AC):** Contributing activity/technique for the environment: **- (ERC11b)** Contributing activity/technique for consumers: **- Article Category (AC): AC 02** Contributing activity/technique for the workers: **Technical function of the substance:** solvent ; skin conditioning agent use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Regulatory status: use in cosmetics products [EU REACH]. Tonnage of substance for that use: tonnes/year Remarks: **Exposure-related description on articles:** Articles with intended or foreseeable skin contact Related assessment: use assessed in an own CSR
SL-8	**Cleaning products** Further description of the use: Article used by: workers ; consumers Substance intended to be released from article: **Article category related to subsequent service life (AC):** AC 02: Other (intended to be released): Cleaning products Contributing activity/technique for the environment: **- (ERC11b)** Contributing activity/technique for consumers: **- Article Category (AC): AC 02** Contributing activity/technique for the workers: **Technical function of the substance:** solvent use registered according to REACH Article 10; total tonnage manufactured/imported >=10tonnes/year per registrant Tonnage of substance for that use: tonnes/year Remarks: **Exposure-related description on articles:** Articles with intended or foreseeable skin contact, e.g. clothing or shoe ware; Articles with foreseeable impact on indoor exposure due to large indoor surface, e.g. flooring Related assessment: use assessed in an own CSR