

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.02.2021

Version number 9

Revision: 03.02.2021

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

- **Product identifier**
- **Trade name:** **WALLOXEN SH 20 PF**
- **Article number:** 511186
- **CAS Number:**
68920-66-1
- **NLP Number:**
500-236-9
- **Registration number** 01-2119489407-26
- **Relevant identified uses of the substance or mixture and uses advised against .**
- **Application of the substance / the mixture** Emulsifier
- **Uses advised against** No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Wall Chemie GmbH
Am Selder 25
D-47906 KEMPEN
DEUTSCHLAND
Tel.: +49 2152 8999 0
E-Mail: sicherheit@wall-chemie.com
- **Further information obtainable from:** Safety and health group
- **Emergency telephone number:**
This number is serviced during office hours: +49 2152 8999 0
Giftinformationszentrum Nord 24h-information: +49 551 19240

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07 GHS09

- **Signal word** Warning
- **(Hazard-determining) components of labelling:** 68920-66-1 Fattyalcohol polyglycolether
- **Hazard statements**
H315 Causes skin irritation.
H411 Toxic to aquatic life with long lasting effects.

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- **Precautionary statements**
 - P273 Avoid release to the environment.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 - P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 - P332+P313 If skin irritation occurs: Get medical advice/attention.
 - P391 Collect spillage.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterisation: Substances**
- **CAS No. Description**
68920-66-1 Fattyalcohol polyglycolether
- **Identification number(s)**
- **NLP Number:** 500-236-9

4 First aid measures

- **Description of first aid measures**
- **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**
Seek medical treatment.
Rinse mouth.
Do not induce vomiting.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
Risk of aspiration.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Organic decomposition products
Carbon oxides (CO_x)
- **Advice for firefighters**
- **Protective equipment:** Use suitable breathing apparatus if necessary.

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6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Particular danger of slipping on leaked/spilled product.
Avoid contact with the eyes and skin.
- **Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Open and handle receptacle with care.
Wear protective clothing.
Do not eat, drink or smoke in working area.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class:** Combustible liquid.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.
The recommended specification of the protective clothing articles is to be chosen according to the duration of the exposition, the concentration and the amount of the dangerous substances at the working environment. Seek advice of the suppliers.
- **Respiratory protection:** Not required.

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· Protection of hands:



Protective gloves

· Material of gloves

e.g. Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.5 mm

· Penetration time of glove material

Minimum breakthrough time : > 120 min (Permeation according to EN 374 Part 3: level 4)

· Eye protection:



Tightly sealed goggles (EN 166).

· Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:

Fluid

Colour:

Yellowish

· Odour:

Characteristic

· Odour threshold:

Not determined.

· pH-value (10 g/l) at 20 °C:

6.0 - 7.5

· Change in condition

Melting point/freezing point:

ca. 10 °C

Initial boiling point and boiling range: Undetermined.

· Flash point:

> 170 °C

· Flammability (solid, gas):

Not applicable.

· 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.

· Vapour pressure:

Not determined.

· Density:

ca. 0.87 g/cm³(60°C)

· Relative density

Not determined.

· Vapour density

Not determined.

· Evaporation rate

Not determined.

· Solubility in / Miscibility with water:

Dispersible.

· Partition coefficient: n-octanol/water:

Product is an emulsifier.

· Viscosity:

Dynamic at 20 °C:

ca. 40 mPas

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Kinematic: Not determined.

Other information No further relevant information available.

10 Stability and reactivity

- **Reactivity** Product is stable under normal ambient conditions.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**
According to CESIO-recommendation 03/2017.

Oral	LD50	>2,000 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**
According to CESIO-recommendation 03/2017.
Causes skin irritation.
- **Serious eye damage/irritation**
According to CESIO-recommendation 03/2017.
No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** no data
- **Carcinogenicity** no data
- **Reproductive toxicity** no data
- **STOT-single exposure** no data
- **STOT-repeated exposure** no data
- **Aspiration hazard** no data

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**
The classification was carried out according to CESIO-recommendation 03/2017

EC50	>10 mg/l (alga) (CESIO 10/2015)
EC20	0.0724 mg/l (daphne) (21 d; CESIO 10/2015)
	0.314 mg/l (fish) (CESIO 10/2015)

- **Persistence and degradability**
These surfactants comply with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
readily biodegradable

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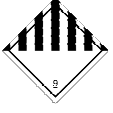

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- Degradation rate $\geq 60\%$ Time (d) 28 days Method OECD 301D
- **Other information:**
This statement was deduced from products with a similar structure or composition.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Number: 5266): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
- **Waste disposal key:**
Determine wastes code in compliance with local waste management company according the European Waste Catalogue (EWC).
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- | | |
|---|--|
| • UN-Number | UN3082 |
| • ADR, IMDG, IATA | |
| • UN proper shipping name | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fattyalcohol polyglycolether) |
| • ADR | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fattyalcohol polyglycolether), MARINE POLLUTANT |
| • IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fattyalcohol polyglycolether) |
| • IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fattyalcohol polyglycolether) |
| • Transport hazard class(es) | |
| • ADR, IMDG, IATA | |
|   | |
| • Class | 9 Miscellaneous dangerous substances and articles. |
| • Label | 9 |

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· Packing group · ADR, IMDG, IATA	III
· Environmental hazards: · Marine pollutant:	Yes (P) Symbol (fish and tree)
· Special marking (ADR): · Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
· Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category · Tunnel restriction code	3 (-)
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FATTYALCOHOL POLYGLYCOLETHER), 9, III

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Seveso category** HAZARDOUS TO THE AQUATIC ENVIRONMENT E2
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Safety and Health group
- **Contact:** Dr. Astrid Kawka, Dr. Dieter Kawka

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· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

P: Marine Pollutant

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· *** Data compared to the previous version altered.**

— EU —

Anhang zum**Sicherheitsdatenblatt**

gemäß 1907/2006/EG, (VO (EU) Nr. 453/2010)

Druckdatum: 17.08.2016

überarbeitet am: 17.08.2016

Stoffsicherheitsbeurteilung**WALLOXEN SH 20 PF****Seite 1/34****Life Cycle description**

Manufacture

Formulation

Uses at industrial sites

Uses by professional workers

Consumer Uses

Article service life

Uses advised against**Exposure controls / personal protection**

Anhang zum

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Stoffsicherheitsbeurteilung

WALLOXEN SH 20 PF

Seite 2/34

Life Cycle description

Manufacture

- ERC 1: Manufacture of substances
- PROC 1: Use in closed process, no likelihood of exposure
- PROC 2: Use in closed, continuous process with occasional controlled exposure
- PROC 3: Use in closed batch process (synthesis or formulation)
- PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises
- PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
- PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
- PROC 15: Use as laboratory reagent

Manufacture	Environmental release category:	Process category:
On-site isolated intermediate under strictly controlled conditions	ERC 1	PROC 3, PROC 8b
Manufacturing	ERC 1	PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15
Manufacturing	ERC 1	PROC 1, PROC 3, PROC4, PROC 8b
AE Generic manufacturing step	ERC 1	PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15

Formulation

- ERC 2: Formulation of preparations
- ERC 3: Formulation in materials
- ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)
- PROC 1: Use in closed process, no likelihood of exposure
- PROC 2: Use in closed, continuous process with occasional controlled exposure
- PROC 3: Use in closed batch process (synthesis or formulation)
- PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises
- PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
- PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
- PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
- PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
- PROC 13: Treatment of articles by dipping and pouring
- PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation
- PROC 15: Use as laboratory reagent
- PC 12: Fertilisers

Anhang zum

Sicherheitsdatenblatt

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Stoffsicherheitsbeurteilung

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- PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents
 PC 23: Leather tanning, dye, finishing, impregnation and care products
 PC 24: Lubricants, greases, release products
 PC 25: Metal working fluids
 PC 32: Polymer preparations and compounds
 PC 34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids
 PC 35: Washing and cleaning products (including solvent based products)

Formulation	Environmental release category:	Process category:	Product category formulated:	Substance supplied to that use in form of:
ATIEL-AI08: Industrial formulation of lubricant additives, lubricants and greases Maintenance & cleaning	ERC 2	PROC 8b		
TEGEWA-T2.1: blending (Bound in Product)	ERC 3	PROC 5	PC 34	As such
ATC-AI12, ATC-AI10: Industrial manufacture and formulation of fuel additives and fuel blends. Maintenance & cleaning	ERC 2	PROC 8b		
ATC-AI08, ATC-AI06: Industrial manufacture and formulation of fuel additives and fuel blends. Sample collection of incoming raw materials	ERC 2	PROC 8b		
TEGEWA-F1.1: Formulation of preparations	ERC 2	PROC 5	PC 24, PC 34	As such
A.I.S.E. M5: Manufacturing of cleaning and Maintenance Products (main sector of use: SU3 - industrial uses) Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact). Industrial setting	ERC 2	PROC 5		As such
ATIEL-ATC Group A [i]: Industrial formulation of lubricant additives, lubricants and greases. Includes material transfers, mixing, large and small packing, sampling, maintenance and associated laboratory activities	ERC 2	PROC 1, PROC 2, PROC3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 15	PC 24, PC 25	As such
ATC-AI10, ATC-AI08: Industrial manufacture and formulation of fuel additives and fuel blends. Small pack (drum/bag) transfers - dedicated facility.	ERC 2	PROC 8b		
A.I.S.E. M7: Manufacturing of cleaning and Maintenance Products (main sector of use: SU3 - industrial uses) Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Industrial setting	ERC 2	PROC 9		As such
ATC-AI09, ATC-AI07: Industrial manufacture and formulation of fuel additives and fuel	ERC 2	PROC 8b		

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blends. Bulk transfers by fixed pipe or flexible hose				
ATIEL-AI02b, ATIEL-AI02a, ATIEL-AI02: Industrial formulation of lubricant additives, lubricants and greases Blending and Filling processes (open / non dedicated). Includes addition of both bulk and small quantity additions	ERC 2	PROC 4, PROC 5		
A.I.S.E. M1: Manufacturing of cleaning and Maintenance Products (main sector of use: SU3 - industrial uses) Use in closed process, no likelihood of exposure. Industrial setting	ERC 2	PROC 1	PC 35	As such
ATIEL-AI11: Industrial formulation of lubricant additives, lubricants and greases QC & Laboratory	ERC 2	PROC 15		
ATIEL-EI02a, ATIEL-EI02b, ATIEL-EI02: (Industrial) Handling and dilution of metalworking fluid concentrates Add concentrate to water tank by pumping from drum or tank via mixer	ERC 2	PROC 5, PROC 8b		
ATIEL-AI07: Industrial formulation of lubricant additives, lubricants and greases Small pack (drum/bag) transfers - non dedicated facility.	ERC 2	PROC 8a		
ATIEL-AI06: Industrial formulation of lubricant additives, lubricants and greases Small pack (drum/bag) transfers - dedicated facility.	ERC 2	PROC 8b		
ATIEL-AI03b, ATIEL-AI03a, ATIEL-AI03: Industrial formulation of lubricant additives, lubricants and greases Sample collection of formulation	ERC 2	PROC 4, PROC 5		
TEGEWA-L1.1, TEGEWA-L1.2, TEGEWA-T1.2, TEGEWA-F2.1, TEGEWA-T1.1: Blending	ERC 2	PROC 5	PC 20, PC 23, PC 24, PC 32, PC 34	As such
A.I.S.E. M4: Manufacturing of cleaning and Maintenance Products (main sector of use: SU3 - industrial uses) Use in batch and other process (synthesis) where opportunity for exposure arises. Industrial setting	ERC 2	PROC 4		As such
A.I.S.E. M8: Manufacturing of cleaning and Maintenance Products (main sector of use: SU3 - industrial uses) Production of preparations or articles by tableting, compression, extrusion, pelettisation. Industrial setting	ERC 2	PROC 14		As such

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ATC-AI01: Industrial manufacture and formulation of fuel additives and fuel blends. Use in closed process, no likelihood of exposure	ERC 2	PROC 1		
EFMA-Fe3.3, EFMA-Fe3.4: Manufacturing of mineral fertilizers, including maintenance or cleaning Adding micronutrients and/or additives (anti-caking, fillers, coatings, colouring agent ...) in solid or liquid fertilizers	ERC 6a, ERC 2	PROC 2, PROC 5		
A.I.S.E. M6: Manufacturing of cleaning and Maintenance Products (main sector of use: SU3 - industrial uses) Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities.	ERC 2	PROC 8b		As such
ATC-AI07, ATC-AI06, ATC-AI05: Industrial manufacture and formulation of fuel additives and fuel blends. Sample collection of formulation	ERC 2	PROC 4, PROC 5		
ATIEL-EI03: (Industrial) Handling and dilution of metalworking fluid concentrates Sample the solution to test concentration	ERC 2	PROC 8b		
ATIEL-ATC Group E [i]: (Industrial) Handling and dilution of metalworking fluid concentrates	ERC 2	PROC 1, PROC 2, PROC 5, PROC 8b	PC 24, PC 25	
ATIEL-AI09: Industrial formulation of lubricant additives, lubricants and greases Top filling of bulk containers (road cars etc)	ERC 2	PROC 8b		
ATC-AI13, ATC-AI11: Industrial manufacture and formulation of fuel additives and fuel blends. Top filling of bulk containers (road cars etc)	ERC 2	PROC 8b		
ATIEL-ATC Group A [i]: Industrial formulation of lubricant additives, lubricants and greases. Includes material transfers, mixing, large and small packing, sampling, maintenance and associated laboratory activities	ERC 6a, ERC 2	PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 15	PC 24, PC 25	
ATC-AI14, ATC-AI12: Industrial manufacture and formulation of fuel additives and fuel blends. Filling of drums and small packages	ERC 2	PROC 9		
ATC-AI04, ATC-AI05: Industrial manufacture and formulation of fuel additives and fuel blends. Use in batch processes (synthesis or blending) where some opportunity for exposure exists during charging and sampling	ERC 2	PROC 4, PROC 5		

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ATIEL-AI05: Industrial formulation of lubricant additives, lubricants and greases Bulk transfers by fixed pipe or flexible hose	ERC 2	PROC 8b		
ATIEL-EI04: (Industrial) Handling and dilution of metalworking fluid concentrates Disposal of waste product & used containers	ERC 2	PROC 8b		
A.I.S.E. M9: Manufacturing of cleaning and Maintenance Products (main sector of use: SU3 - industrial uses) Use as a laboratory reagent	ERC 2	PROC 15		As such
Fe2.1.1, Fe2.1.2, Fe2.1.3, Fe2.2, Fe2.5.1, Fe2.5.2, Fe2.6, Fe3.2, Fe3.4: Manufacturing / Formulation of Fertilizers	ERC 6a, ERC 2	PROC 2, PROC 3, PROC 5, PROC 8b, PROC 9, PROC 13	PC 12	
A.I.S.E. M2: Manufacturing of cleaning and Maintenance Products (main sector of use: SU3 - industrial uses) Use in closed, continuous process with occasional controlled exposure (e.g. sampling). Industrial setting	ERC 2	PROC 2		As such
ATIEL-AI04: Industrial formulation of lubricant additives, lubricants and greases Sample collection of incoming raw materials	ERC 2	PROC 8b		
ATIEL-EI01a, ATIEL-EI01b, ATIEL-EI01: (Industrial) Handling and dilution of metalworking fluid concentrates Add concentrate to water tank by pouring from small container	ERC 2	PROC 5, PROC 8b		
EFMA-Fe3.2: Manufacturing of mineral fertilizers, including maintenance or cleaning Manufacturing of solid or liquid or suspension mineral fertilizers	ERC 2	PROC 5		
EFMA-Fe2.6a, EFMA-Fe2.6b, EFMA-Fe2.6: Seed treatment Treating or coating of seed with Fertilizer	ERC 2	PROC 13		
ATIEL-ATC Group E [i]: (Industrial) Handling and dilution of metalworking fluid concentrates	ERC 2	PROC 1, PROC 2, PROC 5, PROC 8b	PC 24, PC 25	As such
ATC-AI15, ATC-AI13: Industrial manufacture and formulation of fuel additives and fuel blends. QC & Laboratory	ERC 2	PROC 15		
ATIEL-AI10: Industrial formulation of lubricant additives, lubricants and greases Filling of drums and small packages	ERC 2	PROC 9		
ATC-AI02: Industrial manufacture and formulation of fuel additives and fuel blends. Use in closed, continuous process with occasional controlled exposure (e.g. sampling)	ERC 2	PROC 2		

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ATIEL-AI01: Industrial formulation of lubricant additives, lubricants and greases Blending and Filling processes (closed / dedicated). Includes both bulk and small quantity additions	ERC 2	PROC 3		
ATC-AI11, ATC-AI09: Industrial manufacture and formulation of fuel additives and fuel blends. Small pack (drum/bag) transfers - non dedicated facility.	ERC 2	PROC 8a		
ATC-AI03: Industrial manufacture and formulation of fuel additives and fuel blends. Blending and Filling processes (closed / dedicated). Includes both bulk and small quantity additions	ERC 2	PROC 3		
A.I.S.E. M3: Manufacturing of cleaning and Maintenance Products (main sector of use: SU3 - industrial uses) Use in closed batch process (synthesis or formulation. Industrial setting	ERC 2	PROC 3		As such

Uses at industrial sites

- ERC 2: Formulation of preparations
- ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles
- ERC 5: Industrial use resulting in inclusion into or onto a matrix
- ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)
- ERC 6b: Industrial use of reactive processing aids
- ERC 6c: Industrial use of monomers for manufacture of thermoplastics
- ERC 6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers
- ERC 7: Industrial use of substances in closed systems
- ERC 8a: Wide dispersive indoor use of processing aids in open systems
- ERC 8d: Wide dispersive outdoor use of processing aids in open systems
- PROC 0: Other: ECPA OWB
- PROC 1: Use in closed process, no likelihood of exposure
- PROC 2: Use in closed, continuous process with occasional controlled exposure
- PROC 3: Use in closed batch process (synthesis or formulation)
- PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises
- PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
- PROC 6: Calendering operations
- PROC 7: Industrial spraying
- PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
- PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
- PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

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- PROC 10: Roller application or brushing
 PROC 13: Treatment of articles by dipping and pouring
 PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation
 PROC 15: Use as laboratory reagent
 PROC 16: Using material as fuel sources, limited exposure to unburned product to be expected
 PROC 17: Lubrication at high energy conditions and in partly open process
 PROC 21: Low energy manipulation of substances bound in materials and/or articles
 PROC 24: High (mechanical) energy work-up of substances bound in materials and/or articles
 PC 1: Adhesives, sealants
 PC 8: Biocidal products (e.g. disinfectants, pest control)
 PC 14: Metal surface treatment products, including galvanic and electroplating products
 PC 18: Ink and toners
 PC 19: Intermediate
 PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents
 PC 21: Laboratory chemicals
 PC 23: Leather tanning, dye, finishing, impregnation and care products
 PC 24: Lubricants, greases, release products
 PC 25: Metal working fluids
 PC 32: Polymer preparations and compounds
 PC 34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids
 PC 35: Washing and cleaning products (including solvent based products)
 SU 0: Other: Industrial use: Industrial uses as such or in preparations at industrial sites

Uses at industrial sites	Environmental release category:	Process category:	Product category formulated:	Substance supplied to that use in form of:	Subsequent service life relevant for that use:	Sector of end use:
TEGEWA-L4.1, TEGEWA-T5.1: handling (Reactive Processing Aids)	ERC 6b	PROC 8a, PROC 8b, PROC 9	PC 20, PC 23, PC 32, PC 34	As such	yes	
AISE-P1250: Industrial use of Quality control Laboratory Reagents	ERC 4	PROC 15	PC 21	As such	yes	
AISE-P1001a, AISE-P1001b: Industrial use of Metal Treatment Products* Conversion Layer agent; Automatic process, Nickel	ERC 4	PROC 2, PROC 4	PC 14	As such	yes	SU 0
ATI: (Industrial) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding Use of high speed machinery (not MWF uses) - open systems giving rise to mist	ERC 4	PROC 17				
AISE_CS_I02: Using a diluted industrial cleaning solution in a closed cleaning equipment	ERC 4	PROC 1	PC 35	As such	yes	

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ATIEL-CI04, ATIEL-CI0: (Industrial) Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways Automated roller application or brushing of coatings	ERC 4	PROC 10				SU 0
AISE-P104: Industrial use of Laundry products Conditioner (softner/starch); Automatic process	ERC 4	PROC 2	PC 35	As such	yes	
ATIEL-ATC Group D [i]: (Industrial) Use of lubricants in open high temperature processes, e.g. quenching fluids, glass release agents	ERC 4	PROC 1, PROC 2, PROC 8b, PROC 13	PC 24, PC 25		no	
AISE-P1003b: Industrial use of Metal Treatment Products: Hot metal working fluid; Automatic process, Nickel	ERC 4	PROC 24	PC 14	As such	yes	
AISE-P1009b: Industrial use of Metal Treatment Products* Coating product (Paint, filler, Putty, Thinner); Manual process, Nickel	ERC 4	PROC 10	PC 14	As such	yes	
AISE_CS_I06: Spraying of a diluted industrial cleaning or maintenance product during short time.	ERC 4	PROC 7	PC 35	As such	yes	
ATC-KI02: Industrial use of fuel additives and additised fuels Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	ERC 7	PROC 8a				SU 0
AISE-P802: Industrial use of Food beverage and pharmacos products Process cleaner; Semi closed cleaning process	ERC 4	PROC 4	PC 35	As such	yes	
ATC-KI01: Industrial use of fuel additives and additised fuels Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	ERC 7	PROC 8b				SU 0
AISE-P711b, AISE-P711a: Industrial Use of Vehicle cleaning Products Car wash product; Spray and wipe process	ERC 4	PROC 7, PROC 10	PC 35	As such	yes	
AISE-P807: Industrial use of Food beverage and pharmacos products Foam cleaner; Semi-Automatic without venting process	ERC 4	PROC 7	PC 35	As such	yes	
AISE-P1006a: Industrial use of Metal Treatment Products* Metal cleaner (degreaser, descaler, etch); Automatic process, Zinc, Chromium, Copper, Manganese	ERC 4	PROC 2	PC 14	As such	yes	
AISE-P1007b: Industrial use of Metal Treatment Products* Coating product (Paint, filler, Putty, Thinner); Automatic process, Nickel	ERC 4	PROC 2	PC 14	As such	yes	

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AISE-P904: Industrial use of Water treatment Products Preservation and sanitation agent ; Drink and pool water	ERC 4	PROC 4	PC 35	As such	yes	
AISE-P708a, AISE-P708b: Industrial use of Vehicle cleaning Products Aeroplane cleaner; Semi-Automatic process	ERC 4	PROC 4	PC 35	As such	yes	
TEGEWA-T11.1: Textile Coating (Inclusion in Matrix)	ERC 5	PROC 10	PC 20, PC 34	As such	yes	
AISE_CS_I01b, AISE_CS_I01a: Transfer of industrial detergent, maintenance or disinfectant (charging/discharging) to a dedicated cleaning equipment (machine/vessel)	ERC 4	PROC 8b	PC 35	As such	yes	
AISE-P1011b: Industrial use of Metal Treatment Products* Surface finishing product; Manual with process water recycling, Nickel	ERC 4	PROC 4	PC 14	As such	yes	
TEGEWA-T4.1, TEGEWA-L3.1, TEGEWA-F6.1: handling (Inclusion in Matrix)	ERC 5	PROC 8a, PROC 8b, PROC 9	PC 20, PC 23, PC 24, PC 32, PC 34	As such	yes	
TEGEWA-T9.1: Textile application: dipping and pouring (Reactive Processing Aids)	ERC 6b	PROC 13	PC 34	As such	yes	
ATIEL-ATC Group C [i]: (Industrial) Use in open system. Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways	ERC 4	PROC 1, PROC 2, PROC 7, PROC 8b, PROC 9, PROC 10, PROC 13	PC 24, PC 25	As such	yes	
AISE-P801: Industrial use of Food beverage and pharmacos products Process cleaner; Cleaning In place (CIP) process	ERC 4	PROC 1	PC 35	As such	yes	
ATIEL-DI01: (Industrial) Use of lubricants in open high temperature processes, e.g. quenching fluids, glass release agents Fill bath with fluid by pumping from drum or large container	ERC 4	PROC 8b				SU 0
AISE-P1006b: Industrial use of Metal Treatment Products* Metal cleaner (degreaser, descaler, etch); Automatic process	ERC 4	PROC 2	PC 14	As such	yes	
AISE-P101: Industrial use of Laundry products Laundry detergent; Automatic process	ERC 4	PROC 2	PC 35	As such	yes	
TEGEWA-T10.1: Textile Coating (Non-Reactive Processing Aids)	ERC 4	PROC 10	PC 20, PC 34	As such	yes	
AISE-P1005b: Industrial use of Metal Treatment Products* Metal cleaner (degreaser, descaler, etch); Semi-automatic process, Nickel	ERC 4	PROC 4	PC 14	As such	yes	

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ATIEL-CI01: (Industrial) Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways Manual filling of lubricant container, i.e. bath or tank	ERC 4	PROC 8b				SU 0
TEGEWA-T18.1: extrusion (Reactive)	ERC 6d	PROC 14	PC 32, PC 34	As such	yes	
AISE-P903: Industrial use of Water treatment Products Preservation and sanitation agent ; Process water	ERC 4	PROC 4	PC 35	As such	yes	
ATIEL-ATC Group F [i]: (Industrial) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding	ERC 4	PROC 1, PROC 2, PROC 8b, PROC 17	PC 24, PC 25	As such	yes	
TEGEWA-T22.1: Spraying (Reactive)	ERC 5	PROC 7	PC 32, PC 34	As such	yes	
EFMA-Fe3.1b, EFMA-Fe3.1a, EFMA-Fe3.1: Manufacturing of mineral fertilizers, including maintenance or cleaning Manufacturing of solid or liquid mineral fertilizers	ERC 6a	PROC 1, PROC 2, PROC 3				SU 0
General industrial use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines) Maintenance activities industrial settings. General exposure during maintenance work includi	ERC 4, ERC 7	PROC 8b				SU 0
AISE-P906: Industrial Use of Façade/surface Cleaning Products Façade/surface cleaner; High pressure process	ERC 4	PROC 7	PC 35	As such	yes	
AISE-P1010a: Industrial use of Metal Treatment Products* Surface finishing product; Manual with no process water recycling, Zinc, Chromium, Copper, Manganese	ERC 4	PROC 4	PC 14	As such	yes	
AISE-P1005a: Industrial use of Metal Treatment Products* Metal cleaner (degreaser, descaler, etch); Semi-automatic process, Zinc, Chromium, Copper, Manganese	ERC 4	PROC 4	PC 14	As such	yes	
AISE-P1004a: Industrial use of Metal Treatment Products* Metal cleaner (degreaser, descaler, etch); Manual process, Zinc, Chromium, Copper, Manganese	ERC 4	PROC 10	PC 14	As such	yes	
AISE-P709a, AISE-P709b: Industrial Use of Vehicle cleaning Products Car wash product; Semi-Automatic process	ERC 4	PROC 4	PC 35	As such	yes	
AISE-P806: Industrial use of Food beverage and pharmacos products Foam cleaner; Semi-Automatic with venting process	ERC 4	PROC 7	PC 35	As such	yes	

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AISE-P1011a: Industrial use of Metal Treatment Products* Surface finishing product; Manual with process water recycling, Zinc, Chromium, Copper, Manganese	ERC 4	PROC 4	PC 14	As such	yes	
TEGEWA-T20.1: manipulation of substances bound in materials	ERC 5	PROC 21	PC 1, PC 32, PC 34	As such	yes	
TEGEWA-T7.1: Textile application: dipping and pouring (Non-Reactive Processing Aids)	ERC 4	PROC 13	PC 20, PC 34, PC 35	As such	yes	
AISE-P803: Industrial use of Food beverage and pharmacos products Chain maintenance product; Automatic spray process	ERC 4	PROC 7	PC 35	As such	yes	
ATIEL-BI03a, ATIEL-BI03b: General industrial use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines) Initial factory fill by injection of greases.	ERC 4, ERC 7	PROC 2, PROC 9				SU 0
ATIEL-ATC Group D [i]: (Industrial) Use of lubricants in open high temperature processes, e.g. quenching fluids, glass release agents	ERC 4	PROC 1, PROC 2, PROC 8b, PROC 13	PC 24, PC 25	As such	yes	
AISE-P1003a: Industrial use of Metal Treatment Products: Hot metal working fluid; Automatic process, Zinc, Chromium, Copper, Manganese	ERC 4	PROC 24	PC 14	As such	yes	
ATIEL-CI05, ATIEL-CI04: (Industrial) Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways Spraying onto equipment or article	ERC 4	PROC 7				SU 0
AISE-P805: Industrial use of Food beverage and pharmacos products Defoaming product; Automatic process	ERC 4	PROC 1	PC 35	As such	yes	
TEGEWA-L7.1: use in wet end (Reactive)	ERC 6b	PROC 13	PC 20, PC 23	As such	yes	
ATIEL-FI05: (Industrial) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding Automated metal rolling / forming	ERC 4	PROC 2				SU 0
AISE-P804: Industrial use of Food beverage and pharmacos products Chain maintenance product; Automatic drip and brush process	ERC 4	PROC 13	PC 35	As such	yes	
AISE-P1008a: Industrial use of Metal Treatment Products* Coating product (Paint, filler, Putty, Thinner); Semi-Automatic process, Zinc, Chromium, Copper, Manganese	ERC 4	PROC 4	PC 14	As such	yes	

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ATIEL-ATC Group A [i]: Industrial formulation of lubricant additives, lubricants and greases. Includes material transfers, mixing, large and small packing, sampling, maintenance and associated laboratory activities	ERC 6a	PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 15	PC 24, PC 25	As such	yes	
ATIEL-ATC Group F [i]: (Industrial) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding	ERC 4	PROC 1, PROC 2, PROC 8b, PROC 17	PC 24, PC 25		no	
AISE-P810: Industrial use of pharmacos products Disinfection product; Semi-automatic process	ERC 4	PROC 4	PC 35	As such	yes	
Use as Intermediate	ERC 6a	PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15		As such	yes	
TEGEWA-T6.1: textile application: calendering	ERC 5	PROC 6	PC 34	As such	yes	
AISE_CS_I05b, AISE_CS_I05a: Pressure spraying of a diluted industrial cleaning, disinfectant or maintenance product.	ERC 4	PROC 7	PC 35	As such	yes	
AISE-P707b, AISE-P707a: Industrial use of Vehicle cleaning Products Train cleaner; Semi-Automatic process	ERC 4	PROC 4	PC 35	As such	yes	
TEGEWA-T12.1: Textile Coating (Reactive Processing Aids)	ERC 6b	PROC 10	PC 20, PC 34	As such	yes	
AISE-P712a, AISE-P712b: Industrial Use of Vehicle cleaning Products Dewaxing product; Semi-Automatic process	ERC 4	PROC 4	PC 35	As such	yes	
AISE_CS_I09: Treatment of articles by dipping or pouring with an industrial cleaning product	ERC 4	PROC 13	PC 35	As such	yes	
ATIEL-DI04: (Industrial) Use of lubricants in open high temperature processes, e.g. quenching fluids, glass release agents Remove spent/contaminated fluid from tank	ERC 4	PROC 8b				SU 0
ATIEL-BI02, ATIEL-BI02b, A: General industrial use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines) Initial factory fill by pouring from containers; Lubricating Oil	ERC 4, ERC 7	PROC 8b				SU 0
Industrial use in crop protection products	ERC 8a, ERC 8d	PROC 0			no	SU 0

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TEGEWA-L9.3, TEGEWA-L9.2, TEGEWA-L9.1: use for leather finishing (Inclusion in Matrix)	ERC 5	PROC 7, PROC 10	PC 23, PC 32	As such	yes	
ATIEL-DI02: (Industrial) Use of lubricants in open high temperature processes, e.g. quenching fluids, glass release agents Dip hot metal workpiece into fluid in closed booth	ERC 4	PROC 13				SU 0
AISE-P1007a: Industrial use of Metal Treatment Products* Coating product (Paint, filler, Putty, Thinner); Automatic process, Zinc, Chromium, Copper, Manganese	ERC 4	PROC 2	PC 14	As such	yes	
AISE-P714a, AISE-P714b: Industrial Use of Vehicle cleaning Products Boat cleaner; Spray and wipe process	ERC 4	PROC 7, PROC 10	PC 35	As such	yes	
ATIEL-CI06, ATIEL-CI05: (Industrial) Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways Treatment of articles by dipping and pouring	ERC 4	PROC 13				SU 0
AISE_CS_I03: Using a diluted industrial cleaning solution in a semi closed cleaning equipment	ERC 4	PROC 2	PC 35	As such	yes	
ATIEL-FI03: (Industrial) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding Remove finished object from machine	ERC 4	PROC 17				SU 0
AISE-P1002a: Industrial use of Metal Treatment Products* Metal working fluid (rolling oils, lubricants); Automatic process, Zinc, Chromium, Copper, Manganese	ERC 4	PROC 17	PC 14	As such	yes	
AISE-P907: Industrial Use of Façade/surface Cleaning Products Façade/surface cleaner; Medium pressure process	ERC 4	PROC 7	PC 35	As such	yes	
ATIEL-ATC Group C [i]: (Industrial) Use in open system. Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways	ERC 4	PROC 1, PROC 2, PROC 7, PROC 8b, PROC 9, PROC 10, PROC 13	PC 24, PC 25		no	
TEGEWA-T3.1, TEGEWA-L2.1, TEGEWA-F3.1: Handling (Non-Reactive Processing Aids)	ERC 4	PROC 8a, PROC 8b, PROC 9	PC 20, PC 23, PC 24, PC 32, PC 34	As such	yes	

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ATIEL-BI04, ATIEL-BI04b, ATIEL-BI04a: General industrial use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines) Use as a lubricant/grease in a closed system	ERC 4, ERC 7	PROC 1				SU 0
AISE-P110: Industrial use of Laundry products Laundry aid (non-gasing); Automatic process	ERC 4	PROC 2	PC 35	As such	yes	
ATIEL-ATC Group B [i]: General industrial use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines)	ERC 4, ERC 7	PROC 1, PROC 2, PROC 8b, PROC 9	PC 24, PC 25	As such	yes	
Fe3.1.1, Fe3.1.2, Fe3.1.3: Manufacturing / Formulation of Fertilizers (Intermediates)	ERC 6a	PROC 1, PROC 2, PROC 3	PC 19		no	
AISE-P713: Industrial Use of Vehicle cleaning Products Boat cleaning; semi automatic	ERC 4	PROC 10	PC 35	As such	yes	
ATIEL-FI07: (Industrial) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding Draining, maintenance & cleaning of equipment	ERC 4	PROC 8b				SU 0
ATIEL-CI07, ATIEL-CI06: (Industrial) Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways Draining, maintenance & cleaning of equipment	ERC 4	PROC 8b				SU 0
AISE-P1010b: Industrial use of Metal Treatment Products* Surface finishing product; Manual with no process water recycling, Nickel	ERC 4	PROC 4	PC 14	As such	yes	
ATIEL-DI03: (Industrial) Use of lubricants in open high temperature processes, e.g. quenching fluids, glass release agents Dip hot metal workpiece into fluid in open vat	ERC 4	PROC 13				SU 0
AISE_CS_I10: Quality control on industrial cleaning, disinfectants and maintenance Products	ERC 4	PROC 15	PC 21	As such	yes	
ATC-KI04: Industrial use of fuel additives and additised fuels Maintenance activities. General exposure during maintenance work including draining, refilling and testing.	ERC 7	PROC 8b				SU 0
ATIEL-CI03, AT: (Industrial) Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways Automated filling of lubricant container, i.e. bath or tank	ERC 4	PROC 8b, PROC 9				SU 0

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TEGEWA-T15.1: Mixing	ERC 6d	PROC 5	PC 32	As such	yes	
TEGEWA-T8.1: Textile application: dipping and pouring (Inclusion in Matrix)	ERC 5	PROC 13	PC 8, PC 18, PC 20, PC 32, PC 34	As such	yes	
AISE-P1004b: Industrial use of Metal Treatment Products* Metal cleaner (degreaser, descaler, etch); Manual process, Nickel	ERC 4	PROC 10	PC 14	As such	yes	
AISE_CS_I08a, AISE_CS_I08b: Brushing a diluted cleaning or maintenance product (after spraying)	ERC 4	PROC 10	PC 35	As such	yes	
ATIEL-FI01: (Industrial) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding Fill bath with fluid	ERC 4	PROC 8b				SU 0
ATC-KI05: Industrial use of fuel additives and additised fuels Disposal of waste product & used containers	ERC 7	PROC 8b				SU 0
AISE_CS_I07a, AISE_CS_I07b: Brushing an industrial cleaning solution	ERC 4	PROC 10	PC 35	As such	yes	
TEGEWA-F7.1: application of non processing aids	ERC 5	PROC 7, PROC 13, PROC 17	PC 24, PC 34	As such	yes	
AISE_CS_I04b, AISE_CS_I04a: Using a diluted industrial cleaning, disinfectant or maintenance product in an dedicated equipment; opportunity for exposure arises	ERC 4	PROC 4	PC 35	As such	yes	
ATC-KI03: Industrial use of fuel additives and additised fuels Use as fuel for heating or power	ERC 7	PROC 16				SU 0
AISE-P1009a: Industrial use of Metal Treatment Products* Coating product (Paint, filler, Putty, Thinner); Manual process, Zinc, Chromium, Copper, Manganese	ERC 4	PROC 10	PC 14	As such	yes	
TEGEWA-F4.1: application of processing aids	ERC 4	PROC 7, PROC 13, PROC 17	PC 24, PC 34	As such	yes	
TEGEWA-T19.1: lubrication	ERC 4	PROC 17	PC 24	As such	yes	
TEGEWA-T16.1: Coating	ERC 6d	PROC 13	PC 32	As such	yes	
EFMA-Fe3.3, EFMA-Fe3.4: Manufacturing of mineral fertilizers, including maintenance or cleaning Adding micronutrients and/or additives (anti-caking, fillers, coatings, colouring agent ...) in solid or liquid fertilizers	ERC 2, ERC 6a	PROC 2, PROC 5				SU 0
TEGEWA-L5.1: use in wet end (No Inclusion in Matrix)	ERC 4	PROC 13	PC 20, PC 23	As such	yes	
TEGEWA-T21.1: Spraying (Non-Reactive)	ERC 4	PROC 7	PC 20, PC 34	As such	yes	

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AISE-P1002b: Industrial use of Metal Treatment Products* Metal working fluid (rolling oils, lubricants); Automatic process, Nickel	ERC 4	PROC 17	PC 14	As such	yes	
ATIEL-FI08: (Industrial) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding Treat and dispose spent fluid	ERC 4	PROC 8b				SU 0
TEGEWA-T17.1: extrusion (Inclusion in Matrix)	ERC 5	PROC 14	PC 32, PC 34	As such	yes	
ATIEL-BI01, ATIEL-BI01a, ATIEL-BI01b: General industrial use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines) Initial factory fill from header tank; Lubricating Oil	ERC 4, ERC 7	PROC 9				SU 0
TEGEWA-L8.1, TEGEWA-L8.3, TEGEWA-L8.2: use for leather finishing (No Inclusion in Matrix)	ERC 4	PROC 7, PROC 10	PC 23, PC 32	As such	yes	
ATIEL-BI06, ATIEL-BI06a, ATIEL-BI06b: General industrial use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines) Disposal of waste product & used containers	ERC 4, ERC 7	PROC 8b				SU 0
TEGEWA-L6.1: use in wet end (Inclusion in Matrix)	ERC 5	PROC 13	PC 20, PC 23	As such	yes	
AISE-P809: Industrial use of Food beverage and pharmacos products Animal housing care; Semi-Automatic process	ERC 4	PROC 7	PC 35	As such	yes	
TEGEWA-L10.2, TEGEWA-L10.1: use for leather finishing (Monomers)	ERC 6c	PROC 7, PROC 10, PROC 13	PC 23, PC 32	As such	yes	
ATIEL-FI02: (Industrial) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding Drilling, grinding etc	ERC 4	PROC 17				SU 0
ATIEL-FI06: (Industrial) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding Semi-automated metal rolling / forming	ERC 4	PROC 17				SU 0
AISE-P710a, AISE-P710b: Industrial Use of Vehicle cleaning Products Car wash product; Spray and rinse process	ERC 4	PROC 7	PC 35	As such	yes	

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ATIEL-DI05: (Industrial) Use of lubricants in open high temperature processes, e.g. quenching fluids, glass release agents Treat and dispose spent fluid	ERC 4	PROC 8b				SU 0
AISE-P107: Industrial use of Laundry products Laundry aid (gasing); Automatic process	ERC 4	PROC 2	PC 35	As such	yes	
AISE-P1008b: Industrial use of Metal Treatment Products* Coating product (Paint, filler, Putty, Thinner); Semi-Automatic process	ERC 4	PROC 4	PC 14	As such	yes	
ATIEL-ATC Group B [i]: General industrial use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines)	ERC 4, ERC 7	PROC 1, PROC 2, PROC 8b, PROC 9	PC 24, PC 25		no	
AISE-P1001a, AISE-P1001b: Industrial use of Metal Treatment Products* Conversion Layer agent; Automatic process, Zinc, Chromium, Copper, Manganese	ERC 4	PROC 2, PROC 4	PC 14	As such	yes	
AISE-P811: Industrial use of Food beverage and pharmacos products Disinfection product; Fogging and gassing Semi-automatic process	ERC 4	PROC 7	PC 35	As such	yes	
AISE-P905: Industrial use of Water treatment Products Sanitation agent; Waste water	ERC 4	PROC 4	PC 35	As such	yes	

Uses by professional workers

- ERC 2: Formulation of preparations
- ERC 7: Industrial use of substances in closed systems
- ERC 8a: Wide dispersive indoor use of processing aids in open systems
- ERC 8b: Wide dispersive indoor use of reactive substances in open systems
- ERC 8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix
- ERC 8d: Wide dispersive outdoor use of processing aids in open systems
- ERC 8e: Wide dispersive outdoor use of reactive substances in open systems
- ERC 8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix
- ERC 9a: Wide dispersive indoor use of substances in closed systems
- ERC 9b: Wide dispersive outdoor use of substances in closed systems
- PROC 0: Other: ECPA OWB
- PROC 1: Use in closed process, no likelihood of exposure
- PROC 2: Use in closed, continuous process with occasional controlled exposure
- PROC 3: Use in closed batch process (synthesis or formulation)
- PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises
- PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
- PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

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- PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
- PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
- PROC 10: Roller application or brushing
- PROC 11: Non industrial spraying
- PROC 13: Treatment of articles by dipping and pouring
- PROC 15: Use as laboratory reagent
- PROC 16: Using material as fuel sources, limited exposure to unburned product to be expected
- PROC 17: Lubrication at high energy conditions and in partly open process
- PROC 19: Hand-mixing with intimate contact and only PPE available.
- PROC 20: Heat and pressure transfer fluids in dispersive, professional use but closed systems
- PC 12: Fertilisers
- PC 21: Laboratory chemicals
- PC 24: Lubricants, greases, release products
- PC 25: Metal working fluids
- PC 27: Plant protection products
- PC 31: Polishes and wax blends
- PC 35: Washing and cleaning products (including solvent based products)
- PC 39: Cosmetics, personal care products
- SU 0: Other: Professional uses: Public domain
- SU 1: Agriculture, forestry and fishing

Uses by professional workers	Environmental release category:	Process category:	Product category formulated:	Substance supplied to that use in form of:	Subsequent service life relevant for that use:	Sector of end use:
AISE-P410: Professional Use of Floor care products Carpet cleaner; Semi-Automatic process	ERC 8a	PROC 10	PC 35	As such	yes	
IU6: Co-formulant in plant protection products for seed treatment (indoors)	ERC 8c	PROC 8a, PROC 8b	PC 27	As such	yes	
ATIEL-ATC Group F [p]: (Professional) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding	ERC 8a	PROC 1, PROC 2, PROC 8a, PROC 17	PC 24, PC 25	As such In a mixture	yes	
AISE_CSP07: Using a diluted professional cleaning solution or maintenance product in a cleaning equipment; opportunity for exposure arises	ERC 8a	PROC 4	PC 35	As such	yes	
IU4, IU12: Application of pre-treated seeds (indoors)	ERC 8a	PROC 8a, PROC 8b	PC 27	As such	yes	
AISE-P1101: Professional Use of Medical Devices Medical devices ; Semi-automatic process	ERC 8a	PROC 1	PC 35	As such	yes	

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AISE-P308a, AISE-P308b: Professional Use of General surface cleaning products Descaling agent; Spray and rinse manual process	ERC 8a	PROC 10, PROC 11	PC 35	As such	yes	
Fe1.8: Professional Use of Fertilizers (Outdoor, Closed System)	ERC 9b	PROC 2	PC 12		no	
AISE-P608: Professional Use of Maintenance Products Stainless steel care ; Manual process	ERC 8a	PROC 10	PC 31	As such	yes	
ATIEL-ATC Group B [p]: General professional use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines)	ERC 9a, ERC 9b	PROC 1, PROC 2, PROC 8a, PROC 8b, PROC 20	PC 24, PC 25		no	
AISE-P602b, AISE-P602a: Professional Use of Maintenance Products Wooden Furniture care product; Spray and wipe manual process	ERC 8a	PROC 10, PROC 11	PC 31	As such	yes	
AISE-P302a, AISE-P302b: Professional Use of General surface cleaning products General purpose cleaner; Spray and wipe; manual process	ERC 8a	PROC 10, PROC 11	PC 35	As such	yes	
ATIEL-CP01, ATI: (Professional) Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways Manual filling of lubricant container, i.e. bath or tank	ERC 8a, ERC 8d	PROC 8a				SU 0
ATIEL-ATC Group F [p]: (Professional) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding	ERC 8a	PROC 1, PROC 2, PROC 8a, PROC 17	PC 24, PC 25		no	
AISE-P316: Professional Use of General surface cleaning products Metal cleaning agent (including silver and copper polishes); Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
ATC-KP02, ATC-KP02b, ATC-K: Professional use of fuel additives and additised fuels. Transfer of substance or preparation (charging/discharging) between containers at non dedicated facilities i.e. filling of fuel tanks or addition of aftermarket additives.	ERC 7, ERC 9a, ERC 9b	PROC 8a				SU 0
AISE-P1104b, AISE-P1104a: Professional Use of Medical Devices Medical devices ; Spray and wipe process	ERC 8a	PROC 10, PROC 11	PC 35	As such	yes	

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ATIEL-BP04a, ATIEL-BP04b, ATIEL-BP03b, ATIEL-: General professional use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines) Disposal of waste product & used containers	ERC 9a; ERC 9b	PROC 8a; PROC 8b				SU 0
AISE-P310: Professional Use of General surface cleaning products Oven/Grill Cleaner; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
EFMA-Fe1.3: Liquid fertilizers Surface spreading or incorporation at open field and /or forest fertilization. Fertilization of amenity (parks, public lawns, sport fields, golf courses)	ERC 8e	PROC 13				SU 0
IU1, IU9: Co-formulant in plant protection products for outdoor spraying	ERC 8d	PROC 8a; PROC 11	PC 27	As such In a mixture	yes	
EFMA-Fe1.1: Solid Fertilizers NPK/PK/NP/Straights/phosphate fertilizer/potassium fertilizer Surface spreading or incorporation at open field and /or forest fertilization. Fertilization of amenity (parks, public lawns, sport fields, golf courses)	ERC 8e	PROC 8a				SU 0
AISE_CSP05: Using a diluted professional cleaning solution or maintenance product in a closed cleaning equipment	ERC 8a	PROC 1	PC 35	As such	yes	
ATIEL-CP04, ATIEL-CP04b, AT: (Professional) Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways Treatment of articles by dipping and pouring	ERC 8a; ERC 8d	PROC 13				SU 0
AISE_CSP11: Treatment of articles by dipping or pouring with a professional cleaning or maintenance products	ERC 8a	PROC 13	PC 35	As such	yes	
ATIEL-CP02, ATIEL-CP02a, ATIE: (Professional) Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways Roller application or brushing of coatings	ERC 8a; ERC 8d	PROC 10				SU 0
AISE-P604b, AISE-P604a: Professional Use of Maintenance Products Leather care product; Spray and wipe manual process	ERC 8a	PROC 10; PROC 11	PC 31	As such	yes	

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ATIEL-CP03, ATIEL-CP03a, ATIEL-CP03b: (Professional) Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways Spraying onto equipment or article	ERC 8a; ERC 8d	PROC 11				SU 0
AISE_CSP08: Brushing a diluted professional cleaning solution, disinfectant or maintenance product	ERC 8a	PROC 10	PC 35	As such	yes	
IU3: Application of pre-treated seeds (outdoors)	ERC 8d	PROC 8a; PROC 8b	PC 27	As such	yes	
AISE-P1200: Laboratory Use Laboratory Reagents (sampling cleaning product for dosage, pH measurement, titration of chlorine, water hardness, etc...)	ERC 8a	PROC 15	PC 21	As such	yes	
AISE-P303: Professional Use of General surface cleaning products Kitchen cleaner; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
EFMA-Fe2.6a, EFMA-Fe2.6b, EFMA-Fe2.6: Seed treatment Treating or coating of seed with Fertilizer	ERC 2	PROC 13				SU 0
EFMA-Fe1.8: Liquid fertilizers Fertigation at open field	ERC 9b	PROC 2				SU 0
EFMA-Fe2.2: Solid Fertilizers NPK/PK/NP/Straights/phosphate fertilizer/potassium fertilizer Packaging of fertilizer	ERC 2	PROC 9				SU 0
AISE-P409: Professional Use of Floor care products Carpet cleaner; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
AISE-P408a, AISE-P408b: Professional Use of Floor care products Polish / impregnating agent; Spray and wipe manual process	ERC 8a	PROC 10; PROC 11	PC 31	As such	yes	
AISE-P312: Professional Use of General surface cleaning products Glass cleaner; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
AISE-P1102: Professional Use of Medical Devices Medical devices ; Dipping process	ERC 8a	PROC 13	PC 35	As such	yes	
AISE-P808: Professional Use of pharmacos products Animal care; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
AISE-P113b, AISE-P113a: Professional Use of Laundry products Prespotter/Stain remover; Manual process	ERC 8a	PROC 10; PROC 11	PC 35	As such	yes	
AISE-P901a, AISE-P901b: Professional Use of Façade/surface Cleaning Products Façade/surface cleaner; High pressure process	ERC 8d	PROC 11	PC 35	As such	yes	
AISE-P112: Professional Use of Laundry products Laundry aid (non-gasing); Manual process	ERC 8a	PROC 4	PC 35	As such	yes	

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AISE-P706a, AISE-P706b: Professional Use of Vehicle cleaning Products Boat cleaner; Spray and wipe manual process	ERC 8a	PROC 10; PROC 11	PC 35	As such	yes	
AISE-P309: Professional Use of General surface cleaning products Periodic cleaning by dipping	ERC 8a	PROC 13	PC 35	As such	yes	
AISE-P102: Professional Use of Laundry products Laundry detergent; Semi automatic process	ERC 8a	PROC 1	PC 35	As such	yes	
AISE_CSP06: Using a diluted professional cleaning solution in a semi closed cleaning equipment	ERC 8a	PROC 2	PC 35	As such	yes	
AISE-P705: Professional Use of Vehicle cleaning Products Boat cleaner; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
Fe1.1: Professional Use of Fertilizers (Outdoor, Open System)	ERC 8e	PROC 8a, PROC 13	PC 12		no	
ATIEL-FP02: (Professional) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding Drilling, grinding etc	ERC 8a	PROC 17				SU 0
AISE_CSP04: Spraying of a professional cleaning or maintenance product (indoor and outdoor)	ERC 8a	PROC 11	PC 35	As such	yes	
AISE-P407: Professional Use of Floor care products Polish / impregnating agent; Semi-Automatic process	ERC 8a	PROC 10	PC 31	As such	yes	
AISE-P902a, AISE-P902b: Professional Use of Façade/surface Cleaning Products Façade/surface cleaner; Medium pressure process	ERC 8d	PROC 10, PROC 11	PC 35	As such	yes	
AISE-P315a, AISE-P315b: Professional Use of General surface cleaning products Surface disinfectant; Spray and rinse manual process	ERC 8a	PROC 10, PROC 11	PC 35	As such	yes	
ATIEL-CP05, ATIEL-CP05b, A: (Professional) Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways Draining, maintenance & cleaning of equipment	ERC 8a, ERC 8d	PROC 8a				SU 0
EFMA-Fe1.9: Ammonia gas Incorporation into soil	ERC 9b	PROC 2				SU 0
AISE-P304b, AISE-P304a: Professional Use of General surface cleaning products Kitchen cleaner; Spray and wipe manual process	ERC 8a	PROC 10, PROC 11	PC 35	As such	yes	
AISE-P405: Professional Use of Floor care products Floor stripper; Semi-Automatic process	ERC 8a	PROC 10	PC 35	As such	yes	
AISE_CSP09: Brushing a professional cleaning or maintenance product after trigger spraying	ERC 8a	PROC 10	PC 35	As such	yes	

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IU5: Co-formulant in plant protection products for seed treatment (outdoors)	ERC 8f	PROC 8a, PROC 8b	PC 27	As such	yes	
ATIEL-BP03c, ATIE: General professional use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines) General exposure during maintenance work including draining, refilling.	ERC 9a, ERC 9b	PROC 8a, PROC 8b, PROC 20				SU 0
IU8a: Application of granular formulations using automated system (indoors)	ERC 8a	PROC 8a, PROC 8b	PC 27	As such	yes	
AISE-P1103: Professional Use of Medical Devices Medical devices ; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
AISE-P108: Professional Use of Laundry products Laundry aid (gasing); Semi automatic process	ERC 8b	PROC 1	PC 35	As such	yes	
AISE-P605: Professional Use of Maintenance Products Leather care product; Semi-Automatic process	ERC 8a	PROC 2	PC 31	As such	yes	
EFMA-Fe2.3, EFMA-Fe2.4: Soluble liquid or solid fertilizer or suspension fertilizer Dilution or suspension	ERC 2	PROC 5				SU 0
AISE-P314: Professional Use of General surface cleaning products Surface disinfectant; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
AISE_CSP12: Professional Use of Drain Unblockers	ERC 8a	PROC 13	PC 35	As such	yes	
ATIEL-FP06: (Professional) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding Treat and dispose spent fluid	ERC 8a	PROC 8a				SU 0
AISE-P609b, AISE-P609a: Professional Use of Maintenance Products Stainless steel care; Spray and wipe manual process	ERC 8a	PROC 10, PROC 11	PC 31	As such	yes	
ATIEL-FP01: (Professional) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding Fill bath with fluid	ERC 8a	PROC 8a				SU 0
ATC-KP04, ATC-KP04a, ATC-KP04b, ATC-KP04c: Professional use of fuel additives and additised fuels. Maintenance activities. General exposure during maintenance work including draining, refilling and testing.	ERC 7, ERC 9a, ERC 9b	PROC 8b				SU 0
AISE-P701b, AISE-P701a: Professional Use of Vehicle cleaning Products Car wash product; Semi-Automatic process	ERC 8a	PROC 4	PC 35	As such	yes	

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AISE-P704a, AISE-P704b: Professional Use of Vehicle cleaning Products Dewaxing product; Semi-Automatic process	ERC 8a	PROC 4	PC 35	As such	yes	
AISE-P301: Professional Use of General surface cleaning products General purpose cleaner; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
EFMA-Fe1.7: Liquid fertilizers Greenhouse applications	ERC 8b	PROC 8b				SU 0
AISE-P305: Professional Use of General surface cleaning products Sanitary cleaner; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
EFMA-Fe1.6: Liquid foliar fertilizers Leaf spray at open field	ERC 8e	PROC 8a				SU 0
AISE-P603: Professional Use of Maintenance Products Leather care product; Manual process	ERC 8a	PROC 10	PC 31	As such	yes	
AISE-P703b, AISE-P703a: Professional Use of Vehicle cleaning Products Car wash product; Spray and Wipe manual process	ERC 8a	PROC 10, PROC 11	PC 35	As such	yes	
ATC-KP03, ATC-KP03b, ATC-KP03c, ATC-KP03a: Professional use of fuel additives and additised fuels. Use as fuel for heating or power	ERC 7, ERC 9a, ERC 9b	PROC 16				SU 0
AISE-P307: Professional Use of General surface cleaning products Descaling agent; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
AISE-P607: Professional Use of Maintenance Products Drain cleaner; Manual process	ERC 8a	PROC 13	PC 35	As such	yes	
AISE-P201: Professional Use of Dishwash products Dishwash product; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
PPP GES 2: Use as a co-formulant in plant protection products, seed and granular applications by professionals	ERC 8d	PROC 8a, PROC 8b			no	
AISE-P601: Professional Use of Maintenance Products Wooden Furniture care product; Manual process	ERC 8a	PROC 10	PC 31	As such	yes	
AISE-P401: Professional Use of Floor care products Floor cleaner; Semi-Automatic process	ERC 8a	PROC 10	PC 35	As such	yes	
Professional use in crop protection products	ERC 8a, ERC 8d	PROC 0	PC 27			SU 1
AISE-P403a, AISE-P403b: Professional Use of Floor care products Floor cleaner; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
AISE-P311a, AISE-P311b: Professional Use of General surface cleaning products Oven/Grill Cleaner; Spray and wipe manual process	ERC 8a	PROC 10, PROC 11	PC 35	As such	yes	
AISE-P1300: Professional Use of Hand Cleaners Professional Hand Cleaner /skin disinfectants	ERC 8a	PROC 19	PC 39	As such	yes	

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AISE-P411a, AISE-P411b: Professional Use of Floor care products Carpet pre-spotter; Spray and brush manual process	ERC 8a	PROC 10, PROC 11	PC 35	As such	yes	
AISE_CSP01a, AISE_CSP01b: Transfer of professional cleaning or maintenance product (charging/discharging) to a cleaning equipment (machine/vessel/bucket)	ERC 8a	PROC 8a	PC 35	As such	yes	
AISE-P203: Professional Use of Dishwash products Dishwash product; Semi-Automatic process	ERC 8a	PROC 1	PC 35	As such	yes	
AISE-P103: Professional Use of Laundry products Laundry detergent; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
AISE-P606: Professional Use of Maintenance Products Drain unblocker; Manual process	ERC 8a	PROC 13	PC 35	As such	yes	
AISE-P404: Professional Use of Floor care products Floor stripper; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
AISE-P402a, AISE-P402b: Professional Use of Floor care products Floor cleaner; Spray and wipe manual process	ERC 8a	PROC 10, PROC 11	PC 35	As such	yes	
AISE-P105: Professional Use of Laundry products Conditioner (softener/starch); Semi automatic process	ERC 8a	PROC 1	PC 35	As such	yes	
Fe1.7: Professional Use of Fertilizers (Indoor, Open System)	ERC 8b	PROC 8b	PC 12		no	
AISE-P317: Professional Use of General surface cleaning products Wet wipes; Manual process	ERC 8a	PROC 10	PC 35	As such	yes	
ATIEL-ATC Group B [p]: General professional use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines)	ERC 9a, ERC 9b	PROC 1, PROC 2, PROC 8a, PROC 8b, PROC 20	PC 24, PC 25	As such	yes	
AISE_CSP13: Laboratory use of Cleaning and Maintenance products	ERC 8a	PROC 15	PC 21	As such	yes	
AISE-P111: Professional Use of Laundry products Laundry aid (non-gasing); Semi automatic process	ERC 8b	PROC 1	PC 35	As such	yes	
AISE_CSP02: Transfer of professional cleaning or maintenance product (charging/discharging) to a dedicated cleaning equipment	ERC 8a	PROC 8b	PC 35	As such	yes	
AISE-P702a, AISE-P702b: Professional Use of Vehicle cleaning Products Car wash product; Spray - Manual process	ERC 8a	PROC 11	PC 35	As such	yes	
IU7a: Application of granular formulations using automated system (outdoors)	ERC 8d	PROC 8a, PROC 8b	PC 27	As such	yes	
IU2, IU10: Co-formulant in plant protection products for indoor spraying	ERC 8a	PROC 8a, PROC 11	PC 27	As such In a mixture	yes	

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ATC-KP05, ATC-KP05c, ATC-KP05b, ATC-KP05a: Professional use of fuel additives and additised fuels. Disposal of waste product & used containers	ERC 7, ERC 9a, ERC 9b	PROC 8b				SU 0
AISE-P202: Professional Use of Dishwash products Dishwash and rinse aid product; Automatic process	ERC 8a	PROC 2	PC 35	As such	yes	
A: (Professional) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding Use of high speed machinery (not MWF uses) - open systems giving rise to mist	ERC 8a	PROC 17				SU 0
PPP GES 1: Use as a co-formulant in plant protection products, spray applications by professionals	ERC 8d	PROC 8a, PROC 11			no	
AISE_CSP03: Trigger spraying of a professional cleaning or maintenance product during short time.	ERC 8a	PROC 11	PC 35	As such	yes	
EFMA-Fe2.1c, EFMA-Fe2.1b, EFMA-Fe2.1a, EFMA-Fe2.1: Solid Fertilizers NPK/PK/NP/Straights/phosphate fertilizer/potassium fertilizer Blending of fertilizer and other compounds as compost and substrates and pesticides	ERC 2	PROC 2, PROC 3, PROC 5				SU 0
AISE-P313b, AISE-P313a: Professional Use of General surface cleaning products Glass cleaner ; Spray and wipe manual process	ERC 8a	PROC 10, PROC 11	PC 35	As such	yes	
AISE-CSP10: Brushing a concentrated professional cleaning or maintenance product.	ERC 8a	PROC 10	PC 35	As such	yes	
ATIEL-FP05: (Professional) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding Draining, maintenance & cleaning of equipment	ERC 8a	PROC 8a				SU 0
AISE-P306b, AISE-P306a: Professional Use of General surface cleaning products Sanitary cleaner; Spray and wipe manual process	ERC 8a	PROC 10, PROC 11	PC 35	As such	yes	
ATIEL-ATC Group C [p]: (Professional) Use in open system. Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways	ERC 8a, ERC 8d	PROC 1, PROC 2, PROC 8a, PROC 10, PROC 11, PROC 13	PC 24, PC 25		no	
AISE-P204: Professional Use of Dishwash products Rinse aid; Semi-Automatic process	ERC 8a	PROC 1	PC 35	As such	yes	

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ATIEL-FP03: (Professional) Use of lubricants in high energy open processes, e.g. in high speed machinery such as metal rolling / forming or metalworking fluids for machining and grinding Remove finished object from machine	ERC 8a	PROC 17				SU 0
ATIEL-ATC Group C [p]: (Professional) Use in open system. Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways	ERC 8a, ERC 8d	PROC 1, PROC 2, PROC 8a, PROC 10, PROC 11, PROC 13	PC 24, PC 25	As such	yes	
ATIEL-BP01, ATIEL-BP01a, ATIEL-BP01b: General professional use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines) Use as a lubricant/grease in a closed system	ERC 9a, ERC 9b	PROC 1				SU 0
ATC-KP01, ATC-KP01a, ATC-KP01c, ATC-KP01b: Professional use of fuel additives and additised fuels. Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	ERC 7, ERC 9a, ERC 9b	PROC 8b				SU 0
AISE-P406: Professional Use of Floor care products Polish / impregnating agent; Manual process	ERC 8a	PROC 10	PC 31	As such	yes	

Consumer Uses

- ERC 2: Formulation of preparations
- ERC 7: Industrial use of substances in closed systems
- ERC 8a: Wide dispersive indoor use of processing aids in open systems
- ERC 8b: Wide dispersive indoor use of reactive substances in open systems
- ERC 8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix
- ERC 8d: Wide dispersive outdoor use of processing aids in open systems
- ERC 8e: Wide dispersive outdoor use of reactive substances in open systems
- ERC 8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix
- ERC 9a: Wide dispersive indoor use of substances in closed systems
- ERC 9b: Wide dispersive outdoor use of substances in closed systems
- PC 3: Air care products
- PC 12: Fertilisers
- PC 13: Fuels
- PC 24: Lubricants, greases, release products
- PC 27: Plant protection products
- PC 31: Polishes and wax blends
- PC 35: Washing and cleaning products (including solvent based products)

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Consumer Uses	Environmental release category:	Product category formulated:	Substance supplied to that use in form of:	Subsequent service life relevant for that use:
AISE C19a: Consumer use of pest control products INSECTICIDES (liquid electric, spray neat) and REPELLENTS for consumer use, propellants	ERC 8a	PC 35	In a mixture	yes
AISE C8: Consumer use of washing and cleaning products TOILET CLEANERS (powder, liquid, gel, tablet) for consumer use	ERC 8a, ERC 8b	PC 35	In a mixture	yes
AISE C11: Consumer use of washing and cleaning products CARPET CLEANERS (spray, liquid) for consumer use	ERC 8a	PC 35	In a mixture	yes
IU1, IU9: Co-formulant in plant protection products for outdoor spraying	ERC 8d	PC 27		yes
Fe1.5: Consumer Use of Fertilizers (Indoor, Open System)	ERC 8b	PC 12		no
ATIEL-ATC Group C [c]: (Consumer) Use in open system. Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways	ERC 8a, ERC 8d	PC 24		yes
PPP GES 3: Use as a co-formulant in plant protection products, spray applications by consumers	ERC 8d	PC 27		no
AISE C15: Consumer use of washing and cleaning products WIPES (bathroom, kitchen, floor) for consumer use	ERC 8a	PC 35	In a mixture	yes
IU2, IU10: Co-formulant in plant protection products for indoor spraying	ERC 8a	PC 27		yes
EFMA-Fe1.4: Liquid fertilizers Surface spreading at home gardens	ERC 8e	PC 12		
AISE C5: Consumer use of washing and cleaning products HAND DISHWASHING (liquid regular, liquid concentrate) for consumer use	ERC 8a	PC 35	In a mixture	yes
AISE C7: Consumer use of washing and cleaning products SURFACE CLEANERS (liquid, powder, gel neat, spray neat) for consumer use	ERC 8a	PC 35	In a mixture	yes
AISE C18: AIR FRESHENERS NON AEROSOL (Perfume in/on solid substate (gel), candles, diffusers (heated) for consumer use AIR FRESHENERS NON AEROSOL (Perfume in/on solid substate (gel), candles, diffusers (heated) for consumer use	ERC 8a	PC 3	In a mixture	yes

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ATC-KC03, ATC-KC03c, ATC-KC03b, ATC-KC03a: Consumer use of fuel additives and additised fuels. Use as fuel for heating or power	ERC 7, ERC 9a, ERC 9b	PC 13		
AISE C1: Consumer use of washing and cleaning products LAUNDRY REGULAR (powder, liquid) for consumer use	ERC 8a	PC 35	In a mixture	yes
AT: (Consumer) Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways Use as a lubricant in an open system, e.g. penetrating lubricants/greases	ERC 8a, ERC 8d	PC 24		
AISE C2: Consumer use of washing and cleaning products LAUNDRY COMPACT (powder, liquid/gel, tablet) for consumer use	ERC 8a	PC 35	In a mixture	yes
AISE C9: Consumer use of washing and cleaning products WATER SOFTENERS (powder, liquids, Tabs) for consumer use	ERC 8a	PC 35	In a mixture	yes
Consumer use of crop protection products	ERC 8a, ERC 8c, ERC 8d, ERC 8f	PC 27		no
AISE C14: Consumer use of washing and cleaning products DESCALERS	ERC 8a	PC 35	In a mixture	yes
AISE C4: Consumer use of washing and cleaning products LAUNDRY ADDITIVES (powder bleach, liquid bleach, tablet) for consumer use	ERC 8a, ERC 8b	PC 35	In a mixture	yes
ATIEL-ATC Group B [c]: General consumer use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines)	ERC 9a, ERC 9b	PC 24		yes
EFMA-Fe1.2: Solid Fertilizers NPK/PK/NP/Straights/phosphate fertilizer/potassium fertilizer Surface spreading at home gardens	ERC 8e	PC 12		
AISE C20b: Consumer use of polishes FURNITURE FLOOR & LEATHER CARE (spray, liquid) for consumer use, non-propellants	ERC 8a	PC 31	In a mixture	yes
EFMA-Fe2.3, EFMA-Fe2.4: Soluble liquid or solid fertilizer or suspension fertilizer Dilution or suspension	ERC 2	PC 12		
AISE C19b: Consumer use of pest control products INSECTICIDES (liquid electric, spray neat) and REPELLENTS for consumer use, non-propellants	ERC 8a	PC 35	In a mixture	yes
EFMA-Fe1.5: Liquid fertilizers Indoor home fertilizer use	ERC 8b	PC 12		
PPP GES 4: Use as a co-formulant in plant protection products, seed and granular applications by consumers	ERC 8d	PC 27		no

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ATIEL-ATC Group B [c]: General consumer use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines)	ERC 9a, ERC 9b	PC 24		no
IU14: Application of granular formulations (indoors)	ERC 8a	PC 27	In a mixture	yes
IU4, IU12: Application of pre-treated seeds (indoors)	ERC 8a	PC 27	In a mixture	yes
AISE C21: Consumer use of washing and cleaning products High Pressure washers/cleaners	ERC 8a	PC 35	In a mixture	yes
AISE C22: Consumer use of washing and cleaning products Automotive Care (spray, liquid)	ERC 8a	PC 35	In a mixture	yes
ATC-KC01, ATC-KC01c, ATC-KC01b, ATC-KC01a: Consumer use of fuel additives and additised fuels. Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	ERC 7, ERC 9a; ERC 9b	PC 13		
ATC-KC02, ATC-KC02a, ATC-KC02c: Consumer use of fuel additives and additised fuels. Transfer of substance or preparation (charging/discharging) between containers at non dedicated facilities i.e. filling of fuel tanks or addition of aftermarket additives.	ERC 7; ERC 9a; ERC 9b	PC 13		
AISE C3: Consumer use of washing and cleaning products FABRIC CONDITIONERS (liquid regular, liquid concentrate) for consumer use	ERC 8a	PC 35	In a mixture	yes
IU11: Application of pre-treated seeds (outdoors)	ERC 8d	PC 27	In a mixture	yes
Fe1.2: Consumer Use of Fertilizers (Outdoor, Open System)	ERC 8e	PC 12		no
AISE C10: Consumer use of washing and cleaning products OVEN CLEANERS (spray, trigger) for consumer use	ERC 8a	PC 35	In a mixture	yes
ATC-KC05, ATC-KC05a, ATC-KC05c, ATC-KC05b: Consumer use of fuel additives and additised fuels. Disposal of waste product & used containers	ERC 7; ERC 9a; ERC 9b	PC 13		
AISE C20a: Consumer use of polishes FURNITURE FLOOR & LEATHER CARE (spray, liquid) for consumer use, propellants	ERC 8a	PC 31	In a mixture	yes
ATIEL-BC01: General consumer use of lubricants and greases in vehicles or machinery. Includes filling and draining of containers and enclosed machinery (including engines) Use as a lubricant in a closed system, including filling, draining and maintenance	ERC 9a; ERC 9b	PC 24		

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AISE C17: AIR FRESHENERS AEROSOL (aqueous, non aqueous, concentrated (mini-aerosol)Timed-release aerosols) for consumer use AIR FRESHENERS AEROSOL (aqueous, non aqueous, concentrated (mini-aerosol)Timed-release aerosols) for consumer use	ERC 8a	PC 3	In a mixture	yes
AISE C12: Consumer use of washing and cleaning products LAUNDRY AIDS (ironing aids-starch spray, ironing aids-other) for consumer use	ERC 8a	PC 35	In a mixture	yes
IU13: Application of granular formulations (outdoors)	ERC 8d	PC 27	In a mixture	yes
AISE C6: Consumer use of washing and cleaning products MACHINE DISHWASHING (powder, liquid, tablet) for consumer use	ERC 8a	PC 35	In a mixture	yes
AISE C13: Consumer use of washing and cleaning products DRAIN PRODUCTS (powder, gel)	ERC 8a	PC 35	In a mixture	yes
ATC-KC04, ATC-KC04a, ATC-KC04c, ATC-KC04b: Consumer use of fuel additives and additised fuels. Maintenance activities. General exposure during maintenance work including draining, refilling and testing.	ERC 7; ERC 9a; ERC 9b	PC 13		
ATIEL-ATC Group C [c]: (Consumer) Use in open system. Application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mould releases, corrosion protection, slideways	ERC 8a; ERC 8d	PC 24		no

Article service life

- AC 0: Other: AC 30 Other articles with intend release of substances
AC 1: Vehicles
AC 31: Scented clothes
ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release
ERC 10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing)
ERC 11a: Wide dispersive indoor use of long-life articles and materials with low release
ERC 11b: Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing)

Article service life	Environmental release category:	Article category related to subsequent service life:
TEGEWA-T23.1: exposure from textile articles (High Release, Outdoor)	ERC 10b	AC 0

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TEGEWA-T24.1: exposure from textile articles (High Release, Indoor)	ERC 11b	AC 31
TEGEWA-T13.1: exposure from textile articles (Low Release, Outdoor)	ERC 10a	AC 1
TEGEWA-T24.1, TEGEWA-F5.1: exposure from textile articles (Low Release, Indoor)	ERC 11a	AC 31

Uses advised against

No uses advised against are identified.

Exposure controls / personal protection

Exposure controls

ENGINEERING MEASURES

If possible, use material transfer/filling, metering and blending plants that are closed.

PERSONAL PROTECTIVE EQUIPMENT

- Respiratory protection:** In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where dust, fibres and smoke occur, use self-contained breathing apparatus or breathing apparatus with a type P2 or P3 filter, in compliance with EN 143. No personal respiratory protective equipment normally required.
- Hand protection** The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).
- gloves suitable for permanent contact:
Material: butyl-rubber
Break through time: >= 480 min
Material thickness: >= 0.7 mm
- gloves suitable for splash protection:
Material: Nitrile rubber/nitrile latex
Break through time: >= 30 min
Material thickness: >= 0.4 mm

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Eye protection Tightly fitting safety goggles, Safety glasses with side-shields

Skin and body protection Protective suit

Hygiene measures: Avoid contact with eyes. General industrial hygiene practice. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. When using, do not eat, drink or smoke.

Protective measures Avoid contact with eyes. Wear suitable gloves and eye/face protection.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice Avoid subsoil penetration.

Water Do not flush into surface water or sanitary sewer system.