

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ANDEROL FGH 15

Version 1.0 Revision Date: 06.09.2023 SDS Number: 203000014808 Date of last issue: -
Country / Language: DE / 6N (EN)

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

1.1 Product identifier

Trade name : ANDEROL FGH 15
Product code : 000000000062597596
Product Registration Number : 119672

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

Use of the Sub-stance/Mixture : Lubricant
Recommended restrictions on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : Anderol B.V.
Groot Egtenrayseweg 23
5928 PA Venlo
Netherlands
+31 77 396 0340

Responsible Department : +49 221 8885 2288
infosds@lanxess.com

1.4 Emergency telephone number

Emergency telephone number : For 24/7 multilingual emergency please call
CHEMTREC EMEA: +44 20 3885 0382 and mention CCN
1001748.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters airways.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters airways.

Precautionary statements : **Response:**
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.
Storage:
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Dec-1-ene, oligomers, hydrogenated
Dec-1-ene, dimers, hydrogenated

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Dec-1-ene, oligomers, hydrogenated	68037-01-4 01-2119486452-34	Asp. Tox. 1; H304	>= 70 - < 90

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Dec-1-ene, dimers, hydrogenated	68649-11-6 500-228-5 01-2119493069-28	Acute Tox. 4; H332 Asp. Tox. 1; H304 Acute toxicity estimate Acute inhalation toxicity (dust/mist): 1,17 mg/l	$\geq 1 - < 10$
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1 270-128-1 01-2119491299-23	Repr. 2; H361f	$\geq 0,1 - < 1$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Aspiration may cause pulmonary oedema and pneumonitis.
See Section 11 for more detailed information on health effects and symptoms.
Get medical attention if symptoms appear.
- Risks : May be fatal if swallowed and enters airways.

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine. For specialist advice physicians should contact the Poisons Information Service. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry powder
Sand
Water mist

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

If the product contaminates rivers and lakes or drains inform respective authorities.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Annex should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
No special handling advice required.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.

Advice on common storage : No special restrictions on storage with other products.

Storage class (TRGS 510) : 10, Combustible liquids

Further information on storage stability : Stable under recommended storage conditions.

7.3 Specific end use(s)

Specific use(s) : Raw material for industry

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Annex should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational Exposure Limits

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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Dec-1-ene, oligomers, hydrogenated	68037-01-4	AGW (Alveolate fraction)	5 mg/m ³	DE TRGS 900
	Peak-limit: excursion factor (category): 4;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Dec-1-ene, dimers, hydrogenated	68649-11-6	AGW (Alveolate fraction)	5 mg/m ³	DE TRGS 900
	Peak-limit: excursion factor (category): 4;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Dec-1-ene, dimers, hydrogenated	Workers	Inhalation	Acute systemic effects	60 mg/m ³
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Workers	Inhalation	Long-term exposure, Systemic effects	4,37 mg/m ³
	Workers	Dermal	Long-term exposure, Systemic effects	0,62 mg/kg
	Consumers	Inhalation	Long-term exposure, Systemic effects	1,09 mg/m ³
	Consumers	Dermal	Long-term exposure, Systemic effects	0,31 mg/kg
	Consumers	Oral	Long-term exposure, Systemic effects	0,31 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Fresh water	0,051 mg/l
	Marine water	0,0051 mg/l
	Secondary Poisoning	0,51 mg/l
	Fresh water sediment	9320 mg/kg
	Marine sediment	932 mg/kg
	Soil	1860 mg/kg
	Sewage treatment plant	1 mg/l

8.2 Exposure controls

Engineering measures

Effective exhaust ventilation system

Ensure that eyewash stations and safety showers are close to the workstation location.

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Personal protective equipment

- Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Safety glasses with side-shields conforming to EN166
- Hand protection
Remarks : For prolonged or repeated contact use protective gloves.
Polyvinyl alcohol or nitrile- butyl-rubber gloves Before removing gloves clean them with soap and water. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Request information on glove permeation properties from the glove supplier.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
- Skin and body protection : Wear suitable protective clothing.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Protective suit
- Respiratory protection : No personal respiratory protective equipment normally required.
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Respirator with combination filter for vapour/particulate (EN 141)
- Filter type : Filter type AB-P
- Protective measures : Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.
These recommendations apply to the product as supplied.
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Physical state : liquid
- Colour : clear
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Odour : No data available

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : 210 °C
Method: ASTM D 92

Ignition temperature : No data available

Decomposition temperature : No data available

Self-Accelerating decomposition temperature (SADT) : No data available

pH : No data available

Viscosity

 Viscosity, dynamic : No data available

 Viscosity, kinematic : 14,7 mm²/s (40 °C)

Solubility(ies)

 Water solubility : No data available

 Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Vapour pressure : No data available

Relative density : No data available

Density : 0,818 g/cm³ (15 °C)

Relative vapour density : No data available

9.2 Other information

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Explosives : No data available
Oxidizing properties : No data available
Flammability (liquids) : No data available
Self-ignition : No data available
Self-heating substances : No data available
Evaporation rate : No data available
Miscibility with water : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : Exposure to moisture
Contamination

10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l
Exposure time: 4 h

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Test atmosphere: dust/mist
Method: Calculation method

Components:

Dec-1-ene, oligomers, hydrogenated:

- Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 423
Remarks: Dosage caused no mortality
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5,2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Dosage caused no mortality
- Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Dosage caused no mortality
Based on data from similar materials

Dec-1-ene, dimers, hydrogenated:

- Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Dosage caused no mortality
- Acute inhalation toxicity : LC50 (Rat, male and female): 1,17 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

- Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 401
GLP: no
- Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: no
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Dosage caused no mortality

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Skin corrosion/irritation

Not classified based on available information.

Components:

Dec-1-ene, oligomers, hydrogenated:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Dec-1-ene, dimers, hydrogenated:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes
Remarks : Based on data from similar materials

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Mild skin irritation
GLP : no

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Dec-1-ene, oligomers, hydrogenated:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

Dec-1-ene, dimers, hydrogenated:

Species : Rabbit
Result : No eye irritation
GLP : yes

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : no

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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Dec-1-ene, oligomers, hydrogenated:

Test Type : Maximisation Test
Exposure routes : Dermal
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.
GLP : yes

Germ cell mutagenicity

Not classified based on available information.

Components:

Dec-1-ene, dimers, hydrogenated:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Intraperitoneal
Dose: 1250-2500-5000 mg/kg
Method: OECD Test Guideline 474
GLP: yes
Remarks: Based on data from similar materials

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Genotoxicity in vitro : Test Type: Micronucleus test

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Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 487
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Test Type: Ames test
Test system: Escherichia coli
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Genotoxicity in vivo : Test Type: dominant lethal test
Species: Mouse (male)
Application Route: Oral
Method: OECD Test Guideline 478
Result: negative
GLP: no
Remarks: Test results on an analogous product

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

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Components:

Dec-1-ene, dimers, hydrogenated:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Dose: 50-250-1000 milligram per kilogram
Duration of Single Treatment: 20 weeks
General Toxicity - Parent: NOAEL: 1.000 mg/kg body weight
Method: OECD Test Guideline 415
GLP: yes
Remarks: Based on data from similar materials

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Effects on fertility : Test Type: Fertility/early embryonic development
Species: Rat, male and female
Application Route: Oral
Dose: 25-75-225 milligram per kilogram
General Toxicity - Parent: NOAEL: 25 mg/kg bw/day
Fertility: NOEL: 225 mg/kg bw/day
Method: OECD Test Guideline 422
Result: Animal testing did not show any effects on fertility.
GLP: yes

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rabbit, female
Application Route: Oral
Dose: 10-30-100 milligram per kilogram
General Toxicity Maternal: NOAEL: 30 mg/kg bw/day
Teratogenicity: NOAEL: 100 mg/kg bw/day
Developmental Toxicity: NOEL: 30 mg/kg bw/day
Method: OECD Test Guideline 414
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses
GLP: yes

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Dec-1-ene, dimers, hydrogenated:

Species : Rat, male and female
NOAEL : 1.000 mg/kg
Application Route : Oral

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Exposure time : 28 Days
Number of exposures : daily
Dose : 0-1000
Method : OECD Test Guideline 407
GLP : yes
Remarks : Based on data from similar materials

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Rat, male and female
NOAEL : 25 mg/kg
Application Route : Oral
Exposure time : 28 d
Number of exposures : daily
Dose : 25-75-225 mg/kg bw/d
Method : OECD Test Guideline 422
GLP : yes
Remarks : Subacute toxicity

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

Dec-1-ene, oligomers, hydrogenated:

May be fatal if swallowed and enters airways.

Dec-1-ene, dimers, hydrogenated:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : The product itself has not been tested.

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SECTION 12: Ecological information

12.1 Toxicity

Components:

Dec-1-ene, oligomers, hydrogenated:

Toxicity to fish : LC50 (Fish): > 1.000 mg/l
Exposure time: 96 h

Dec-1-ene, dimers, hydrogenated:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l
End point: mortality
Exposure time: 96 h
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1.000 mg/l
End point: Immobilization
Exposure time: 48 h
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EL50 (Scenedesmus capricornutum (fresh water algae)): > 1.000 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOELR (Scenedesmus capricornutum (fresh water algae)): > 1.000 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 125 mg/l
End point: mortality
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Analytical monitoring: no
Method: OECD Test Guideline 211
GLP: yes

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

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- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: no
Remarks: Fresh water
nominal concentration
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 51 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: Fresh water
nominal concentration
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: no
Remarks: Fresh water
nominal concentration
- NOEC (Desmodesmus subspicatus (green algae)): > 10 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: no
Remarks: Fresh water
nominal concentration
- Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 209
GLP: no
Remarks: Fresh water
nominal concentration
- Toxicity to daphnia and other aquatic invertebrates (Chron- : EL10: 1,69 mg/l
End point: Reproduction

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ic toxicity)

Exposure time: 21 Days
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Analytical monitoring: no
Method: OECD Test Guideline 211
GLP: yes
Remarks: Fresh water
nominal concentration
water extractable fraction

12.2 Persistence and degradability

Components:

Dec-1-ene, oligomers, hydrogenated:

Biodegradability : Result: Not readily biodegradable.

Dec-1-ene, dimers, hydrogenated:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 15 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: yes

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge, non-adapted
Concentration: 20,1 mg/l
Result: Not readily biodegradable.
Biodegradation: 1 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

12.3 Bioaccumulative potential

Components:

Dec-1-ene, dimers, hydrogenated:

Partition coefficient: n-
octanol/water : log Pow: > 6,5 (20 °C)
pH: 7
Method: OECD Test Guideline 117
GLP: yes

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Partition coefficient: n-
octanol/water : log Pow: 6,66 (23 °C)
pH: 6,67
Method: OECD Test Guideline 123
GLP: yes

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Remarks: Based on data from similar materials

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. This product has no known ecotoxicological effects. The product itself has not been tested. Avoid release to the environment.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Annex should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product : Dispose of wastes in an approved waste disposal facility. In accordance with local and national regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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SECTION 14: Transport information

14.1 UN number or ID number

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.4 Packing group

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Hazard and Handling Notes. : Not dangerous cargo.
Keep away from acids and oxidizing agents.
Keep separated from foodstuffs.

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14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75, 3

Do not use for tattooing purposes.

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors. : Neither banned nor restricted

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

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Water hazard class (Germany) : WGK 1 slightly hazardous to water
Classification according to AwSV, Annex 1 (5)

15.2 Chemical safety assessment

Chemical Safety Assessments have been carried out for these substances.

SECTION 16: Other information

Full text of H-Statements

H304 : May be fatal if swallowed and enters airways.
H332 : Harmful if inhaled.
H361f : Suspected of damaging fertility.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Asp. Tox. : Aspiration hazard
Repr. : Reproductive toxicity
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet;

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SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Asp. Tox. 1 H304

Classification procedure:

Calculation method

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.

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Annex

Exposure Scenario (ES)

Number	Title
ES1	Lubricant, Industrial use (ERC4; ERC7; PROC1; PROC3; PROC4; PROC7; PROC8a; PROC8b; PROC9; PROC10; PROC13; PROC17; PROC18) <u>Structured Short Title:</u> Use at industrial sites
ES2	Lubricant, Professional use (ERC8a; ERC8d; ERC9a; ERC9b; PROC1; PROC3; PROC4; PROC8a; PROC8b; PROC9; PROC10; PROC11; PROC13; PROC17; PROC18; PROC20) <u>Structured Short Title:</u> Widespread use by professional workers

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ES1: Lubricant, Industrial use

1.1. Title section

Structured Short Title	: Use at industrial sites
Substance	: REACH No.: 01-2119493949-12 CAS-No.: 157707-86-3

Environmental release category(ies)	: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles ERC7: Industrial use of substances in closed systems
Process category(ies)	: PROC1: Use in closed process, no likelihood of exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC7: Industrial spraying PROC8a: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC17: Lubrication at high energy conditions and in partly open process PROC18: Greasing at high energy conditions

Contributing Scenario (CS) Environment		
CS1	Industrial use of processing aids in processes and products, not becoming part of articles; Industrial use of substances in closed systems	ERC4, ERC7

Contributing Scenario (CS) Worker		
CS2	no sampling; General exposures (closed systems)	PROC1, CS57, CS15
CS3	with sample collection; General exposures (closed systems)	PROC3, CS56, CS15

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CS4	Storage; General exposures (open systems); With potential for aerosol generation; Remanufacture of reject articles	PROC4, CS67, CS16, CS138, CS19
CS5	Without Local Exhaust Ventilation; Spraying; With Local Exhaust Ventilation	PROC7,,
CS6	Storage; Bulk transfers; Filling/ preparation of equipment from drums or containers.; Manual; Maintenance (of larger plant items) and machine set up; Elevated temperature	PROC8a, CS67, CS14, CS45, CS34, CS77, CS111
CS7	Storage; Bulk transfers; Filling/ preparation of equipment from drums or containers.; Machine; Maintenance (of larger plant items) and machine set up; Elevated temperature	PROC8b, CS67, CS14, CS45, CS33, CS77, CS111
CS8	Storage; Maintenance of small items; Initial factory fill of equipment	PROC9, CS67, CS18, CS75
CS9	Rolling, Brushing	PROC10
CS10	Treatment by dipping and pouring	PROC13
CS11	With potential for aerosol generation; Operation and lubrication of high energy open equipment	PROC17, CS138, CS17
CS12	Use in closed, continuous process with occasional controlled exposure; Operation and lubrication of high energy open equipment	PROC18, PROC2, CS17

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Industrial use of processing aids in processes and products, not becoming part of articles; Industrial use of substances in closed systems (ERC4, ERC7)

Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)	
Not applicable	:

Technical and organisational conditions and measures	
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Bund storage facilities to prevent soil and water pollution in the event of spillage.

Conditions and measures related to sewage treatment plant

STP type : No specific measures identified.

Conditions and measures related to treatment of waste (including article waste)

Waste treatment : External recovery and recycling of waste should comply with applicable local and/or national regulations.

Other conditions affecting environmental exposure

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

: No toxicity at the limit of solubility

1.2.2. Control of worker exposure: no sampling; General exposures (closed systems) (PROC1, CS57, CS15)

Product (article) characteristics

Concentration of substance in product : Covers the percentage of the substance in the product up to 100 % (unless stated differently).

Physical form of product : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)

Use frequency : Covers daily exposures up to 8 hours (unless stated differently).

: Not applicable

Technical and organisational conditions and measures

Handle substance within a closed system.

Clear spills immediately.

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

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Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. When prolonged exposure is expected:

Other conditions affecting workers exposure

- : Assumes a good basic standard of occupational hygiene is implemented
- : Assumes use at not more than 20°C above ambient temperature.

1.2.3. Control of worker exposure: with sample collection; General exposures (closed systems) (PROC3, CS56, CS15)

Product (article) characteristics

- Concentration of substance in product : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
- Physical form of product : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)

- Use frequency : Covers daily exposures up to 8 hours (unless stated differently).
- : Not applicable

Technical and organisational conditions and measures

Ensure samples are obtained under containment or extract ventilation.
Handle substance within a closed system.
Clear spills immediately.

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

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. When prolonged exposure is expected:

Other conditions affecting workers exposure

- : Assumes a good basic standard of occupational hygiene is implemented

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

1.2.4. Control of worker exposure: Storage; General exposures (open systems); With potential for aerosol generation; Remanufacture of reject articles (PROC4, CS67, CS16, CS138, CS19)

Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).
	: Not applicable

Technical and organisational conditions and measures	
Ensure samples are obtained under containment or extract ventilation. Formulate in enclosed or ventilated mixing vessels. Transfer via enclosed lines.	
Clear spills immediately.	

Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves complying with EN 374.	

Other conditions affecting workers exposure	
	: Assumes a good basic standard of occupational hygiene is implemented
	: Assumes use at not more than 20°C above ambient temperature.

1.2.5. Control of worker exposure: Without Local Exhaust Ventilation; Spraying; With Local Exhaust Ventilation (PROC7, ,)

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Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).
	: Not applicable

Technical and organisational conditions and measures	
Apply within a vented cab supplied with filtered air under positive pressure and with a protection factor of >20.	
Clear spills immediately.	

Conditions and measures related to personal protection, hygiene and health evaluation	
Change filter cartridge on respirator daily. When spraying without ventilation: Wear a respirator conforming to EN140 with Type A filter or better.	
Wear suitable gloves tested to EN374.	

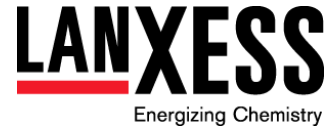
Other conditions affecting workers exposure	
	: Assumes a good basic standard of occupational hygiene is implemented
	: Assumes use at not more than 20°C above ambient temperature.

1.2.6. Control of worker exposure: Storage; Bulk transfers; Filling/ preparation of equipment from drums or containers.; Manual; Maintenance (of larger plant items) and machine set up; Elevated temperature (PROC8a, CS67, CS14, CS45, CS34, CS77, CS111)

Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).

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Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure
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Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).
	: Not applicable

Technical and organisational conditions and measures
Ensure samples are obtained under containment or extract ventilation. Provide extract ventilation to material transfer points and other openings. Transfer via enclosed lines. Clear transfer lines prior to de-coupling.
Use drum pumps.
Clear spills immediately.

Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable coveralls to prevent exposure to the skin.

Other conditions affecting workers exposure
: Assumes a good basic standard of occupational hygiene is implemented

1.2.7. Control of worker exposure: Storage; Bulk transfers; Filling/ preparation of equipment from drums or containers.; Machine; Maintenance (of larger plant items) and machine set up; Elevated temperature (PROC8b, CS67, CS14, CS45, CS33, CS77, CS111)

Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).

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ently).
: Not applicable

Technical and organisational conditions and measures
Ensure samples are obtained under containment or extract ventilation. Provide extract ventilation to material transfer points and other openings. Transfer via enclosed lines. Clear transfer lines prior to de-coupling.
Clear spills immediately.

Conditions and measures related to personal protection, hygiene and health evaluation
Wear suitable coveralls to prevent exposure to the skin.

Other conditions affecting workers exposure
: Assumes a good basic standard of occupational hygiene is implemented

1.2.8. Control of worker exposure: Storage; Maintenance of small items; Initial factory fill of equipment (PROC9, CS67, CS18, CS75)

Product (article) characteristics
Concentration of substance in product : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)
Use frequency : Covers daily exposures up to 8 hours (unless stated differently).
: Not applicable

Technical and organisational conditions and measures
Ensure samples are obtained under containment or extract ventilation. Use in semi-automated and predominantly enclosed filling lines.

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Clear spills immediately.

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

Wear suitable coveralls to prevent exposure to the skin.

Other conditions affecting workers exposure

: Assumes a good basic standard of occupational hygiene is implemented

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

1.2.9. Control of worker exposure: Rolling, Brushing (PROC10)

Product (article) characteristics

Concentration of substance in product : Covers the percentage of the substance in the product up to 100 % (unless stated differently).

Physical form of product : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)

Use frequency : Covers daily exposures up to 8 hours (unless stated differently).

: Not applicable

Technical and organisational conditions and measures

Clear spills immediately.

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

Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin.

Other conditions affecting workers exposure

: Assumes a good basic standard of occupational hygiene is

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

1.2.10. Control of worker exposure: Treatment by dipping and pouring (PROC13)

Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).
	: Not applicable

Technical and organisational conditions and measures	
Use ventilation to extract vapours from freshly coated articles/objects.	
Clear spills immediately.	

Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374.	
Wear suitable coveralls to prevent exposure to the skin.	

Other conditions affecting workers exposure	
	: Assumes a good basic standard of occupational hygiene is implemented
	: Assumes use at not more than 20°C above ambient temperature.

1.2.11. Control of worker exposure: With potential for aerosol generation; Operation and lubrication of high energy open equipment (PROC17, CS138, CS17)

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Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).
	: Not applicable

Technical and organisational conditions and measures	
Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. Restrict area of openings to equipment.	
Clear spills immediately.	

Other conditions affecting workers exposure	
	: Assumes a good basic standard of occupational hygiene is implemented
	: Assumes use at not more than 20°C above ambient temperature.

1.2.12. Control of worker exposure: Use in closed, continuous process with occasional controlled exposure; Operation and lubrication of high energy open equipment (PROC18, PROC2, CS17)

Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).

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ently).
: Not applicable

Technical and organisational conditions and measures
Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. Restrict area of openings to equipment.
Clear spills immediately.

Other conditions affecting workers exposure
: Assumes a good basic standard of occupational hygiene is implemented
: Assumes use at not more than 20°C above ambient temperature.

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: Industrial use of processing aids in processes and products, not becoming part of articles; Industrial use of substances in closed systems (ERC4, ERC7)

Additional information on exposure estimation
No exposure assessment presented for the environment.

1.3.2. Worker exposure: no sampling; General exposures (closed systems) (PROC1, CS57, CS15)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

1.3.3. Worker exposure: with sample collection; General exposures (closed systems) (PROC3, CS56, CS15)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

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1.3.4. Worker exposure: Storage; General exposures (open systems); With potential for aerosol generation; Remanufacture of reject articles (PROC4, CS67, CS16, CS138, CS19)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

1.3.5. Worker exposure: Without Local Exhaust Ventilation; Spraying; With Local Exhaust Ventilation (PROC7, ,)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

1.3.6. Worker exposure: Storage; Bulk transfers; Filling/ preparation of equipment from drums or containers.; Manual; Maintenance (of larger plant items) and machine set up; Elevated temperature (PROC8a, CS67, CS14, CS45, CS34, CS77, CS111)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

1.3.7. Worker exposure: Storage; Bulk transfers; Filling/ preparation of equipment from drums or containers.; Machine; Maintenance (of larger plant items) and machine set up; Elevated temperature (PROC8b, CS67, CS14, CS45, CS33, CS77, CS111)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

1.3.8. Worker exposure: Storage; Maintenance of small items; Initial factory fill of equipment (PROC9, CS67, CS18, CS75)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

1.3.9. Worker exposure: Rolling, Brushing (PROC10)

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Additional information on exposure estimation

Risk management measures are based on qualitative risk characterisation.

1.3.10. Worker exposure: Treatment by dipping and pouring (PROC13)

Additional information on exposure estimation

Risk management measures are based on qualitative risk characterisation.

1.3.11. Worker exposure: With potential for aerosol generation; Operation and lubrication of high energy open equipment (PROC17, CS138, CS17)

Additional information on exposure estimation

Risk management measures are based on qualitative risk characterisation.

1.3.12. Worker exposure: Use in closed, continuous process with occasional controlled exposure; Operation and lubrication of high energy open equipment (PROC18, PROC2, CS17)

Additional information on exposure estimation

Risk management measures are based on qualitative risk characterisation.

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

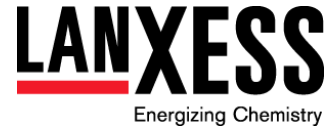
Guidance to Downstream Users

Fulfilling the above conditions the downstream user is deemed to work safely inside the boundaries set by this exposure scenario.

Other conditions should only be considered if the downstream user implements or recommends an exposure scenario which includes as a minimum the conditions described in this exposure scenario.

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ES2: Lubricant, Professional use

2.1. Title section

Structured Short Title	: Widespread use by professional workers
Substance	: REACH No.: 01-2119493949-12 CAS-No.: 157707-86-3

Environmental release category(ies)	: ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8d: Wide dispersive outdoor use of processing aids in open systems ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems
Process category(ies)	: PROC1: Use in closed process, no likelihood of exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC11: Non industrial spraying PROC13: Treatment of articles by dipping and pouring PROC17: Lubrication at high energy conditions and in partly open process PROC18: Greasing at high energy conditions PROC20: Heat and pressure transfer fluids in dispersive, professional use but closed systems

Contributing Scenario (CS) Environment		
CS1	Wide dispersive indoor use of processing aids in open systems; Wide dispersive outdoor use of processing aids in open systems; Wide dispersive indoor use of substances in closed systems; Wide dispersive outdoor use of substances in closed systems	ERC8a, ERC8d, ERC9a, ERC9b

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Contributing Scenario (CS) Worker		
CS2	no sampling; General exposures (closed systems)	PROC1, CS57, CS15
CS3	with sample collection; General exposures (closed systems)	PROC3, CS56, CS15
CS4	Batch process; General exposures (open systems); With potential for aerosol generation	PROC4, CS16, CS138
CS5	Elevated temperature; Bulk transfers; Filling/ preparation of equipment from drums or containers.; Maintenance (of larger plant items) and machine set up	PROC8a, CS111, CS14, CS45, CS77
CS6	Elevated temperature; Bulk transfers; Filling/ preparation of equipment from drums or containers.; Maintenance (of larger plant items) and machine set up	PROC8b, CS111, CS14, CS45, CS77
CS7	With Local Exhaust Ventilation; Maintenance of small items	PROC9,, CS18
CS8	Without Local Exhaust Ventilation; Rolling, Brushing; With Local Exhaust Ventilation	PROC10,,
CS9	Without Local Exhaust Ventilation; Spraying; With Local Exhaust Ventilation	PROC7,,
CS10	Treatment by dipping and pouring	PROC13
CS11	Out-door use; Operation and lubrication of high energy open equipment; In-door use; Operation of total loss equipment and systems	PROC17,, CS17,, CS21
CS12	Operation and lubrication of high energy open equipment	PROC18, CS17
CS13	Engine lubricant service	PROC20, CS78

2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Wide dispersive indoor use of processing aids in open systems; Wide dispersive outdoor use of processing aids in open systems; Wide dispersive indoor use of substances in closed systems; Wide dispersive outdoor use of substances in closed systems (ERC8a, ERC8d, ERC9a, ERC9b)

Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

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Amount used, frequency and duration of use (or from service life)	
Not applicable	:

Technical and organisational conditions and measures	
Bund storage facilities to prevent soil and water pollution in the event of spillage.	

Conditions and measures related to sewage treatment plant	
STP type	: No specific measures identified.

Conditions and measures related to treatment of waste (including article waste)	
Waste treatment	: External recovery and recycling of waste should comply with applicable local and/or national regulations.

Other conditions affecting environmental exposure	
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100
	: No toxicity at the limit of solubility

2.2.2. Control of worker exposure: no sampling; General exposures (closed systems) (PROC1, CS57, CS15)

Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).
	: Not applicable

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Technical and organisational conditions and measures

Handle substance within a closed system.

Clear spills immediately.

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

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. When prolonged exposure is expected:

Other conditions affecting workers exposure

: Assumes a good basic standard of occupational hygiene is implemented

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

2.2.3. Control of worker exposure: with sample collection; General exposures (closed systems) (PROC3, CS56, CS15)

Product (article) characteristics

Concentration of substance in product : Covers the percentage of the substance in the product up to 100 % (unless stated differently).

Physical form of product : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)

Use frequency : Covers daily exposures up to 8 hours (unless stated differently).

: Not applicable

Technical and organisational conditions and measures

Ensure samples are obtained under containment or extract ventilation. Handle substance within a closed system.

Clear spills immediately.

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

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.
When prolonged exposure is expected:

Other conditions affecting workers exposure

- : Assumes a good basic standard of occupational hygiene is implemented
- : Assumes use at not more than 20°C above ambient temperature.

2.2.4. Control of worker exposure: Batch process; General exposures (open systems); With potential for aerosol generation (PROC4, CS16, CS138)

Product (article) characteristics

- Concentration of substance in product : Covers the percentage of the substance in the product up to 100 % (unless stated differently).
- Physical form of product : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)

- Use frequency : Covers daily exposures up to 8 hours (unless stated differently).
- : Not applicable

Technical and organisational conditions and measures

Ensure samples are obtained under containment or extract ventilation.
Transfer via enclosed lines.
Clear spills immediately.

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

Protective gloves complying with EN 374.

Other conditions affecting workers exposure

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	: Assumes a good basic standard of occupational hygiene is implemented
	: Assumes use at not more than 20°C above ambient temperature.

2.2.5. Control of worker exposure: Elevated temperature; Bulk transfers; Filling/ preparation of equipment from drums or containers.; Maintenance (of larger plant items) and machine set up (PROC8a, CS111, CS14, CS45, CS77)

Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).
	: Not applicable

Technical and organisational conditions and measures	
Clear transfer lines prior to de-coupling. Provide extract ventilation to material transfer points and other openings. Transfer via enclosed lines.	
Use drum pumps.	
Clear spills immediately.	

Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable coveralls to prevent exposure to the skin.	

Other conditions affecting workers exposure	
	: Assumes a good basic standard of occupational hygiene is implemented

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2.2.6. Control of worker exposure: Elevated temperature; Bulk transfers; Filling/ preparation of equipment from drums or containers.; Maintenance (of larger plant items) and machine set up (PROC8b, CS111, CS14, CS45, CS77)

Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).
	: Not applicable

Technical and organisational conditions and measures	
Clear transfer lines prior to de-coupling. Provide extract ventilation to material transfer points and other openings. Transfer via enclosed lines.	
Use drum pumps.	
Clear spills immediately.	

Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable coveralls to prevent exposure to the skin.	

Other conditions affecting workers exposure	
	: Assumes a good basic standard of occupational hygiene is implemented

2.2.7. Control of worker exposure: With Local Exhaust Ventilation; Maintenance of small items (PROC9, , CS18)

Product (article) characteristics	
Concentration of substance in prod-	: Covers the percentage of the substance in the product up

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uct	to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).
	: Not applicable

Technical and organisational conditions and measures	
Provide sufficient air exchange and/or exhaust in work rooms.	
Clear spills immediately.	

Other conditions affecting workers exposure	
	: Assumes a good basic standard of occupational hygiene is implemented
	: Assumes use at not more than 20°C above ambient temperature.

2.2.8. Control of worker exposure: Without Local Exhaust Ventilation; Rolling, Brushing; With Local Exhaust Ventilation (PROC10, ,)

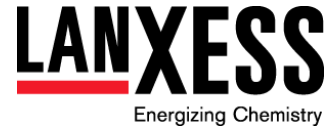
Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).
	: Not applicable

Technical and organisational conditions and measures	
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Provide extract ventilation to points where emissions occur.
Clear spills immediately.

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

Wear a respirator conforming to EN140 with Type A filter or better.
In case of inadequate ventilation wear respiratory protection.

Wear suitable gloves tested to EN374.
Wear suitable coveralls to prevent exposure to the skin.

Other conditions affecting workers exposure

: Assumes a good basic standard of occupational hygiene is implemented

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

2.2.9. Control of worker exposure: Without Local Exhaust Ventilation; Spraying; With Local Exhaust Ventilation (PROC7, ,)

Product (article) characteristics

Concentration of substance in product : Covers the percentage of the substance in the product up to 100 % (unless stated differently).

Physical form of product : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)

Use frequency : Covers daily exposures up to 8 hours (unless stated differently).

: Not applicable

Technical and organisational conditions and measures

Carry out in a vented booth or extracted enclosure.
Provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Clear spills immediately.

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Conditions and measures related to personal protection, hygiene and health evaluation	
Change filter cartridge on respirator daily. When spraying without ventilation: Wear a respirator conforming to EN140 with Type A filter or better.	
Wear suitable gloves tested to EN374.	

Other conditions affecting workers exposure	
	: Assumes a good basic standard of occupational hygiene is implemented
	: Assumes use at not more than 20°C above ambient temperature.

2.2.10. Control of worker exposure: Treatment by dipping and pouring (PROC13)

Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).
	: Not applicable

Technical and organisational conditions and measures	
Use ventilation to extract vapours from freshly coated articles/objects.	
Clear spills immediately.	

Conditions and measures related to personal protection, hygiene and health evaluation	
Wear suitable gloves tested to EN374. Wear suitable coveralls to prevent exposure to the skin.	

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Other conditions affecting workers exposure	
	: Assumes a good basic standard of occupational hygiene is implemented
	: Assumes use at not more than 20°C above ambient temperature.

2.2.11. Control of worker exposure: Out-door use; Operation and lubrication of high energy open equipment; In-door use; Operation of total loss equipment and systems (PROC17, , CS17, , CS21)

Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).
	: Not applicable

Technical and organisational conditions and measures	
Restrict area of openings to equipment. Indoor use Provide extraction ventilation at points where emissions occur.	
Ensure operation is undertaken outdoors. Outdoor use	
Clear spills immediately.	

Other conditions affecting workers exposure	
Indoor or outdoor use	: Indoor
	: Assumes a good basic standard of occupational hygiene is implemented
	: Assumes use at not more than 20°C above ambient temperature.

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	: Operation and lubrication of high energy open equipment
	: Operation of total loss equipment and systems

2.2.12. Control of worker exposure: Operation and lubrication of high energy open equipment (PROC18, CS17)

Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).
	: Not applicable

Technical and organisational conditions and measures	
Provide extraction ventilation at points where emissions occur. Restrict area of openings to equipment.	
Clear spills immediately.	

Other conditions affecting workers exposure	
	: Assumes a good basic standard of occupational hygiene is implemented
	: Assumes use at not more than 20°C above ambient temperature.

2.2.13. Control of worker exposure: Engine lubricant service (PROC20, CS78)

Product (article) characteristics	
Concentration of substance in product	: Covers the percentage of the substance in the product up to 100 % (unless stated differently).
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

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ture and Pressure

Amount used, frequency and duration of use (or from service life)	
Use frequency	: Covers daily exposures up to 8 hours (unless stated differently).
	: Not applicable

Technical and organisational conditions and measures
Handle substance within a closed system.
Clear spills immediately.

Conditions and measures related to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. When prolonged exposure is expected:

Other conditions affecting workers exposure
: Assumes a good basic standard of occupational hygiene is implemented
: Assumes use at not more than 20°C above ambient temperature.

2.3. Exposure estimation and reference to its source

2.3.1. Environmental release and exposure: Wide dispersive indoor use of processing aids in open systems; Wide dispersive outdoor use of processing aids in open systems; Wide dispersive indoor use of substances in closed systems; Wide dispersive outdoor use of substances in closed systems (ERC8a, ERC8d, ERC9a, ERC9b)

Additional information on exposure estimation
No exposure assessment presented for the environment.

2.3.2. Worker exposure: no sampling; General exposures (closed systems) (PROC1, CS57, CS15)

Additional information on exposure estimation

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Risk management measures are based on qualitative risk characterisation.

2.3.3. Worker exposure: with sample collection; General exposures (closed systems) (PROC3, CS56, CS15)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

2.3.4. Worker exposure: Batch process; General exposures (open systems); With potential for aerosol generation (PROC4, CS16, CS138)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

2.3.5. Worker exposure: Elevated temperature; Bulk transfers; Filling/ preparation of equipment from drums or containers.; Maintenance (of larger plant items) and machine set up (PROC8a, CS111, CS14, CS45, CS77)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

2.3.6. Worker exposure: Elevated temperature; Bulk transfers; Filling/ preparation of equipment from drums or containers.; Maintenance (of larger plant items) and machine set up (PROC8b, CS111, CS14, CS45, CS77)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

2.3.7. Worker exposure: With Local Exhaust Ventilation; Maintenance of small items (PROC9, CS18)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

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2.3.8. Worker exposure: Without Local Exhaust Ventilation; Rolling, Brushing; With Local Exhaust Ventilation (PROC10, ,)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

2.3.9. Worker exposure: Without Local Exhaust Ventilation; Spraying; With Local Exhaust Ventilation (PROC7, ,)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

2.3.10. Worker exposure: Treatment by dipping and pouring (PROC13)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

2.3.11. Worker exposure: Out-door use; Operation and lubrication of high energy open equipment; In-door use; Operation of total loss equipment and systems (PROC17, , CS17, , CS21)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

2.3.12. Worker exposure: Operation and lubrication of high energy open equipment (PROC18, CS17)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

2.3.13. Worker exposure: Engine lubricant service (PROC20, CS78)

Additional information on exposure estimation
Risk management measures are based on qualitative risk characterisation.

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

Guidance to Downstream Users
Fulfilling the above conditions the downstream user is deemed to work safely inside the boundaries set by this exposure scenario.
Other conditions should only be considered if the downstream user implements or recommends an exposure scenario which includes as a minimum the conditions described in this exposure scenario.