SECTION 1. Identification of the substance/mixture and of the company/enterprise

1.1. Product identifier

Product name : LUBISAN Super Dry
Product code: refer to sales department

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

Secondary action cleaner lubricant
Sectors of use:
Industrial Manufacturing[SU3], Manufacture of food products[SU4]
Product category:
Lubricants, Greases and Release Products
Process categories:
Industrial spraying[PROC7], Transfer of substance or mixture (charging and discharging) at dedicated facilities[PROC8B]

Not recommended uses
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

AEB SpA - Via Vittorio Arici 104 S.Polo - 25134 Brescia (BS) Italy
Tel. +39.030.2307.1 Fax +39.030.2307281
E-mail: info@aeb-group.com - Internet: www.aeb-group.com
E-mail tecnico competente/technical dept.: sds@aeb-group.com

AEB USA
111 N Cluff Avenue
Lodi CA 95240 (USA)
Tel: +1 2096258139 Fax: +1 2092248953
Email: info@aebusa.com - Internet: www.aeb-group.com

AEB AFRICA (PTY) LTD
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AEB OCEANIA PTY LTD
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Produced by
AEB SpA
Via Vittorio Arici 104 S. Polo
25134 Brescia

1.4. Emergency telephone number

AEB SpA
Centralino/Switchboard: +39.030.2307.1 - (h 8.30-12.00 13.30-18.00 GMT +1; Lingua/Language: Italiano, English)

AEB USA
111 N Cluff Avenue
Lodi CA 95240 (USA)
Switchboard: +1 2096258139 (GMT -8; Language: English)
Fax: +12092248953
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AEB AFRICA (PTY) LTD
Switchboard: +27 215512700 (GMT +1; Language: English, Afrikaans)

AEB OCEANIA PTY LTD
Switchboard: +61 1300 704 971 (GMT +9; Language: English)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:
GHS05, GHS07, GHS09

Hazard Class and Category Code(s):
Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2

Hazard statement Code(s):
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H400 - Very toxic to aquatic life. (Acute toxicity M-factor = 1)
H411 - Toxic to aquatic life with long lasting effects.

If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.
If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.
The product is dangerous for the environment as it is very toxic to aquatic organisms
The product is dangerous to the environment as it is toxic to aquatic life with long lasting effects

2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):
GHS05, GHS09 - Danger

Hazard statement Code(s):
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H410 - Very toxic to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):
EUH208 - Contains preservatives: Benzisothiazolinone. May produce an allergic reaction

Precautionary statements:
Prevention
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Response
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Disposal
P501 - Dispose of contents/container to local/regional/national/international regulations

Contains: 2,2'-(octadec-9-enylimino)bisethanol; 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol; N,N-Dimethyltetradecylamine N-Oxide

Contains (Reg.EC 648/2004):
< 5% phosphonates, non-ionic surfactants, cationic surfactants,
Preservatives: Benzisothiazolinone

2.3. Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

The use of this chemical agent implies the obligation of the "risk assessment" by the employer according to the provisions of Legislative Decree April 9, 2008 no. 81 and subsequent amendments. If the results of the risk assessment demonstrate that, in relation to the type, quantity, methods and frequency of exposure, there is only a low risk for the safety and irrelevant for the health of the workers and that the measures referred to in paragraph 1 of Legislative Decree April 9, 2008 no. 81 are sufficient to reduce the risk, the provisions of articles 225, 226, 229, 230 of the same Legislative Decree do not apply

Do not ingest. Keep out of reach of children.

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACh
2,2'-(octadec-9-enylimino)bisethanol	>= 1 < 2,5%	Acute Tox. 4, H302; Skin Corr. 1A, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute toxicity M-factor = 10 Chronic toxicity M-factor = 1 ATE oral = 1.260,0 mg/kg		25307-17-9	246-807-3	01-2119510876-35-xxxx
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	>= 1 < 2,5%	Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute toxicity M-factor = 10 Chronic toxicity M-factor = 1 ATE oral > 1.350,0 mg/kg		1218787-32-6	620-540-6	01-2119510877-33-XXXX
Acetic acidB substance for which there are Community workplace exposure limits	>= 0,1 < 1%	Flam. Liq. 3, H226; Skin Corr. 1A, H314; Eye Dam. 1, H318 Limits: Skin Corr. 1A, H314 %C >=90; Skin Corr. 1B, H314 25<= %C <90; Skin Irrit. 2, H315 10<= %C <25; Eye Irrit. 2, H319 10<= %C <25;	607-002-00-6	64-19-7	200-580-7	01-2119475328-30-XXXX
N,N-Dimethyltetradecylamine N-Oxide	>= 0,1 < 1%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral > 500,0 mg/kg		3332-27-2	222-059-3	01-2119949262-37-XXXX
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	>= 0,1 < 1%	Acute Tox. 4, H302; Asp. Tox. 1, H304; Skin Corr. 1B, H314; Eye Dam. 1, H318; STOT SE 3, H335; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute toxicity M-factor = 10 Chronic toxicity M-factor = 10 ATE oral > 300,0 mg/kg		1213789-63-9	627-034-4	01-2119473797-19-XXXX
(Z)-Octadec-9-enylamine,	>= 0,1 < 1%	Acute Tox. 4, H302; Skin Irrit. 2, H315;		26635-93-8	500-048-7	Polymer

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACh
ethoxylated (3-10 EO)		Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral > 300,0 mg/kg				
Benzisothiazolinone	>= 0,0036 < 0,036%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317; Eye Dam. 1, H318; Acute Tox. 2, H330; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Limits: Skin Sens. 1, H317 %C >=0,036; Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral = 450,0 mg/kg ATE inhal = 0,210 mg/l/4 h (dust-mist)	613-088-00-6	2634-33-5	220-120-9	01-2120761540-60-XXXX

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:
Ventilate the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product).:
Take off immediately contaminated clothing.
Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.
In case of contact with skin, wash immediately with watrer.

Direct contact with eyes (of the pure product).:
Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately
Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:
Not dangerous. In case of malaise consult a doctor.

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

Ingestion may cause chemical burns in the mouth and throat.
In contact with the skin can cause burns.
In contact with eyes it causes very strong irritation, including redness and tearing.

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

If you feel unwell after accidental contact with the product, go to the emergency room with this document.
Treat symptomatically.
UFI code on the label.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suggested extinguishing media:
Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media to avoid:
Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus
Safety helmet and full protective clothing.
The water spray can be used to protect the people involved in the extinction.
You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas.
Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:
Leave the area surrounding the spill or release. Do not smoke
Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:
Eliminate all unguarded flames and possible sources of ignition. No smoking.
Privide a sufficient ventilation.
Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spills with earth or sand.
If the product has entered a watercourse, sewers or has contaminated soil or vegetation, notify the authorities.
Dispose of the waste material in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 Containment:
Rapidly recover the product, wear a mask and protective clothing (for specifications refer to section 8.2. SDS)
Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert materia or sucked it.
Prevent it from entering the sewer system.

6.3.2 Cleaning up:
After wiping up, wash with water the area and materials involved

6.3.3 Other information:
None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors
Wear protective gloves/protective clothing/eye protection/face protection.
At work do not eat or drink.
See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabelled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

7.3. Specific end use(s)

Industrial Manufacturing:
Handle with caution. Store in a well-ventilated area away from heat sources (7-30°C), in the tightly closed original container.

Manufacture of food products:
Handle with caution. Store in a well-ventilated area away from heat sources (7-30°C), in the tightly closed original container.

See the annex exposure scenario.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

==========
Related to contained substances:
Acetic acid:
Limit value/Eight hours
(ppm)/(mg/m3)
Australia: 10/25
Austria: 10/25
Belgium: 10/25
Canada-Ontario: 10/x
Canada-Québec: 10/25
Czech Republic : x/25
Denmark: 10/25
European Union: 10/25
Finland: 5/13
France: x/x
Germany (AGS): 10/25

Germany (DFG): 10/25
Hungary: x/25
Ireland: 10/25
Italy: 10/25
Latvia: 10/25
New Zealand: 10/25
People's Republic of China: x/10
Poland: x/15
Portugal: 10/25
Singapore: 10/25
South Korea: 10/25
Switzerland: 10/25
Turkey: 10/25
USA-NIOSH: 10/25
USA-OSHA: 10/25
United Kingdom: [10]/[25]

Limit value/Short term
(ppm)/(mg/m3)
Australia: 15/37
Austria: 20-50
Belgium: 15/38
Canada-Ontario: 15/x
Canada-Québec: 15/37
Czech Republic: x/50
Denmark: 20/50
European Union: 20/50
Finland: 10(1)/25(1)
France: 10/25
Germany (AGS): 20(1)/50(1)
Germany (DFG): 20/50
Hungary: x/25
Ireland: 15(1)/37(1)
Italy: 20/50
Latvia: x/x
New Zealand: 15/37
People's Republic of China: x/20(1)
Poland: x/30
Portugal: x/x
Singapore: 15/37
South Korea: 15/37
Spain: 15/37
Sweden: 10(1)/25(1)
Switzerland: 20/50
Turkey: x/x
USA-NIOSH: 15(1)/37(1)
USA-OSHA: x/x
United Kingdom: [15]/[37]

Remarks
Austria: Indicative Occupational Exposure Limit Values, proposal [5] ~ (for reference see bibliography)
Finland: (1) 15 minutes average value
Germany (AGS): (1) 15 minutes average value
Germany (DFG): STV 15 minutes average value
Ireland: (1) 15 minutes reference period
People's Republic of China: (1) 15 minutes average value
Sweden: (1) Short-term value, 15 minutes average value

Tipo OEL: UE - LTE(8h): 25mg/m3, 10ppm

Tipo OEL: ACGIH - LTE(8h): 10ppm, - STEL: 15 ppm - Note: URT and eye irr, pulm func

- Substance: 2,2'-(octadec-9-enylimino)bisethanol
DNEL
Systemic effects Long term Workers inhalation = 2,122 (mg/m3)
Systemic effects Long term Workers dermal = 0,3 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 0,745 (mg/m3)
Systemic effects Long term Consumers dermal = 0,214 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 0,214 (mg/kg bw/day)
PNEC
Sweet water = 0,000214 (mg/l)
sediment Sweet water = 1,692 (mg/kg/sediment)
Sea water = 0,000021 (mg/l)
sediment Sea water = 0,169 (mg/kg/sediment)
ground = 5 (mg/kg ground)

- Substance: 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol
DNEL
Systemic effects Long term Workers inhalation = 2,112 (mg/m3)
Systemic effects Long term Workers dermal = 0,3 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 0,745 (mg/m3)
Systemic effects Long term Consumers dermal = 0,214 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 0,214 (mg/kg bw/day)
PNEC
Sweet water = 0,00021 (mg/l)
sediment Sweet water = 1,692 (mg/kg/sediment)
Sea water = 0,000002 (mg/l)
sediment Sea water = 0,1692 (mg/kg/sediment)
STP = 1,5 (mg/l)
ground = 5 (mg/kg ground)

- Substance: Acetic acid
DNEL
Local effects Long term Workers inhalation = 25 (mg/m3)
Local effects Long term Consumers inhalation = 25 (mg/m3)
Local effects Short term Workers inhalation = 25 (mg/m3)
Local effects Short term Consumers inhalation = 25 (mg/m3)
PNEC
Sweet water = 3,058 (mg/l)
sediment Sweet water = 11,36 (mg/kg/sediment)
Sea water = 0,3058 (mg/l)
sediment Sea water = 1,136 (mg/kg/sediment)
STP = 85 (mg/l)
ground = 0,47 (mg/kg ground)

- Substance: N,N-Dimethyltetradecylamine N-Oxide
DNEL
Systemic effects Long term Workers inhalation = 6,2 (mg/m3)
Systemic effects Long term Workers dermal = 11 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 1,53 (mg/m3)
Systemic effects Long term Consumers dermal = 5,5 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 0,44 (mg/kg bw/day)
PNEC
Sweet water = 0,0335 (mg/l)
sediment Sweet water = 5,24 (mg/kg/sediment)
Sea water = 0,00335 (mg/l)

sediment Sea water = 0,524 (mg/kg/sediment)
STP = 24 (mg/l)
ground = 1,02 (mg/kg ground)

- Substance: (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines
DNEL
Systemic effects Long term Consumers inhalation = 0,38 (mg/m3)
Systemic effects Long term Consumers oral = 0,04 (mg/kg bw/day)
Local effects Long term Workers inhalation = 1 (mg/m3)
Local effects Short term Workers inhalation = 1 (mg/m3)
PNEC
Sweet water = 0,00026 (mg/l)
sediment Sweet water = 0,1794 (mg/kg/sediment)
Sea water = 0,000002 (mg/l)
sediment Sea water = 0,0179 (mg/kg/sediment)
STP = 0,55 (mg/l)
ground = 10 (mg/kg ground)

- Substance: Benzisothiazolinone
DNEL
Systemic effects Long term Workers inhalation = 6,81 (mg/m3)
Systemic effects Long term Workers dermal = 0,966 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 1,2 (mg/m3)
Systemic effects Long term Consumers dermal = 0,345 (mg/kg bw/day)
PNEC
Sweet water = 0,00403 (mg/l)
sediment Sweet water = 0,0499 (mg/kg/sediment)
Sea water = 0,000403 (mg/l)
sediment Sea water = 0,00499 (mg/kg/sediment)
STP = 1,03 (mg/l)
ground = 3 (mg/kg ground)

8.2. Exposure controls

Appropriate engineering controls:
Industrial Manufacturing:
No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Manufacture of food products:
No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection
During the manipulation of the pure product use safety goggles (EN 166) except for various provisions by the employer and/or assessments of environmental hygiene investigations

(b) Skin protection
(i) Hand protection
When handling the pure product, use chemical-resistant protective gloves (EN 374-1/EN374 2/EN374-3).
In the case of persons already aware of the substances/mixtures present in the product, use chemical-resistant protective gloves (EN 374-1/EN374-2/EN374-3) except for a number of provisions by the employer and/or assessments

of environmental hygiene investigations
(ii) Other
During the work operations according to the provisions of the manager (employer) wear clothing to protect the skin (generic work dress/anti-acid, safety shoes or other intended devices).

(c) Respiratory protection
Not necessary if aeriform concentrations are kept below the exposure limit. Use protections (89/656/EEC, 245/2016 EU) or equivalent if respiratory risks cannot be avoided or sufficiently limited through collective protection or through work
organisation measures, methods or procedures.

(d) Thermal hazards
No hazard to report

Environmental exposure controls:
Use according to good working practices and avoid to disperse the product into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Physical state	clear liquid	
Colour	yellow	
Odour	not determined as it is considered not relevant for the characterization of the product	
Odour threshold	not determined as it is considered not relevant for the characterization of the product	
Melting point/freezing point	not determined as it is considered not relevant for the characterization of the product	
Boiling point or initial boiling point and boiling range	not determined as it is considered not relevant for the characterization of the product	
Flammability	not determined as it is considered not relevant for the characterization of the product	
Lower and upper explosion limit	not determined as it is considered not relevant for the characterization of the product	
Flash point	not determined as it is considered not relevant for the characterization of the product	
Auto-ignition temperature	not determined as it is considered not relevant for the characterization of the product	
Decomposition temperature	not determined as it is considered not relevant for the characterization of the product	
pH	7,5 ± 0,5 (20°C; sol. 0,6%); 4,5 ± 0,5 (20°C; sol. 100%)	
Kinematic viscosity	not determined as it is considered not relevant for the characterization of the product	
Solubility	in water	
Water solubility	miscible at the concentrations of use	
Partition coefficient n-octanol/water (log value)	not determined as it is considered not relevant for the characterization of the product	
Vapour pressure	not determined as it is considered not relevant for the characterization of the product	
Density and/or relative density	1,0 ± 0,05 (20°C)	

Physical and chemical properties	Value	Determination method
Relative vapour density	not determined as it is considered not relevant for the characterization of the product	
Particle characteristics	not determined as considered not relevant for the characterization of the product	

9.2. Other information

9.2.1 Information with regard to physical hazard classes

Irrilevant

9.2.2 Other safety characteristics

Irrilevant

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No dangerous reactions if handled and stored according to the provisions.

10.3. Possibility of hazardous reactions

No dangerous reactions are expected

10.4. Conditions to avoid

Avoid heat, direct light and any source of ignition

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

It does not decompose when used for its intended uses.

SECTION 11. Toxicological information

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

(a) acute toxicity: based on available data, the classification criteria are not met
ATE(mix) oral = Not classified (15.230,9 mg/kg)
ATE(mix) dermal = Not classified (no relevant component)
ATE(mix) inhal = Not classified (no relevant component)
(b) skincorrosion/irritation: based on available data, the classification criteria are met. If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.
(c) serious eye damage/irritation: based on available data, the classification criteria are met. If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.
(d) respiratoryorskinsensitisation: based on the available data, the classification criteria are not met. However, may cause an allergic skin reaction.
(e) germ cell mutagenicity: based on the available data, the classification criteria are not met.
(f) carcinogenicity: based on available data, the classification criteria are not met
(g) eproductivetoxicity: based on available data, the classification criteria are not met
(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met
(i) specific target organ toxicity (STOT) repeated exposure: based on available data, the classification criteria are not met
(j) aspiration hazard: based on available data, the classification criteria are not met

Concerning substances

(a) acute toxicity:
2,2'-(octadec-9-enylimino)bisethanol:
Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): > 2000
Inhalation - LD50 rat (mg / l / 4h): scientifically unnecessary study
LD50 (rat) Oral (mg/kg body weight) = 1260
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol:
Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): > 2000
Inhalation - LD50 rat (mg / l / 4h): na
LD50 (rat) Oral (mg/kg body weight) > 1350
Acetic acid:
Ingestion - LD50 rat (mg / kg / 24h bw): 3310
Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): nd
Inhalation - LD50 rat (mg / l / 4h): 11.4 (varpori)
N,N-Dimethyltetradecylamine N-Oxide:
Skin contact - LC50 rat / rabbit (mg / kg / 24h bw):> 2000
Inhalation - LD50 rat (mg / l / 4h): nd
LD50 (rat) Oral (mg/kg body weight) > 500
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: Skin contact - LC50 rat / rabbit (mg / kg / 24h bw):> 2000
Inhalation - LD50 rat (mg / l / 4h): na
LD50 (rat) Oral (mg/kg body weight) > 300
(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO):
Ingestion - LD50 rat (mg / kg / 24h bw):> 300.
Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): na
Inhalation - LD50 rat (mg / l / 4h): na
LD50 (rat) Oral (mg/kg body weight) > 300
Benzisothiazolinone:
Skin contact - LC50 rat / rabbit (mg / kg / 24h bw):> 2000

LD50 (rat) Oral (mg/kg body weight) = 450
CL50 Inhalation (rat)dust/mist (mg/l/4h)= 0,21

(b) skincorrosion/irritation:
2,2'-(octadec-9-enylimino)bisethanol: Corrosive (3 min of application highlight skin corrosion after 24 hours)
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol: Corrosive
Acetic acid: Corrosive
N,N-Dimethyltetradecylamine N-Oxide: Non-corrosive
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: Adverse effects have been observed
(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO): Unavailable
Benzisothiazolinone: Corrosive
2,2'-(octadec-9-enylimino)bisethanol: Irritant (rabbit at 0.5 ml of undiluted substance OECD method 0404 caused severe erythema and edema and after 24 hours of necrosis and crusting. There is no evidence of corrosion at the 1 hour observation time)
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol: Irritating
Acetic acid: Irritating
N,N-Dimethyltetradecylamine N-Oxide: Irritating
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: Adverse effects have been observed
(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO): Irritating
Benzisothiazolinone: Irritating

(c) serious eye damage/irritation:
2,2'-(octadec-9-enylimino)bisethanol: Study not scientifically justified, as being classified as Skin Corr. , is also classified as Eye Dam.1
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol: Study not scientifically justified, as being classified as Skin Corr. , is also classified as Eye Dam.1
Acetic acid: Corrosive
N,N-Dimethyltetradecylamine N-Oxide: Causes eye damage
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: Corrosive
(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO): Corrosive
Benzisothiazolinone: Corrosive
2,2'-(octadec-9-enylimino)bisethanol: Study not scientifically justified, as being classified as Skin Corr. , is also classified as Eye Dam.1
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol: Irritating
Acetic acid: Irritating
N,N-Dimethyltetradecylamine N-Oxide: Irritating
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: Adverse effects have been observed
(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO): Irritating
Benzisothiazolinone: Irritating

(d) respiratoryorskinsensitisation: 2,2'-(octadec-9-enylimino)bisethanol: It was not found to be a skin sensitiser when - OECD 406 This indicates that respiratory sensitization is unlikely (physical fitness, a liquid with low vapor pressure, requires minimal exposure by inhalation.
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol: No adverse effects have been observed
Acetic acid: Non-sensitizing
N,N-Dimethyltetradecylamine N-Oxide: Not available
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: No adverse effects have been observed
(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO): Unavailable
Benzisothiazolinone: Sensitizing

(e) germ cell mutagenicity:
2,2'-(octadec-9-enylimino)bisethanol: I don't mutagneo
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol: Unavailable
Acetic acid: Non-mutagenic

N,N-Dimethyltetradecylamine N-Oxide: Non-mutagenic
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: Unavailable
(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO): Unavailable
Benzisothiazolinone: Non-mutagenic

(f) carcinogenicity:
2,2'-(octadec-9-enylimino)bisethanol: There are three in vitro tests negative for genotoxicity which show that it is unlikely to be a genotoxic carcinogen and the absence of any systemic organ toxicity that could increase the possibility of any carcinogenic genotoxic substance due to the disruption of normal organ. There is no data to indicate a classification by carcinogenicity and a carcinogenesis test is not scientifically justified
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol: Unavailable
Acetic acid: Non-carcinogenic
N,N-Dimethyltetradecylamine N-Oxide: Non-carcinogenic
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: Unavailable
(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO): Unavailable
Benzisothiazolinone: Not available

(g) eproductivetoxicity:
2,2'-(octadec-9-enylimino)bisethanol: Non-toxic for reproduction
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol: Fertility: no adverse effects were observed (oral, rat) NOAEL 125 mg / kg bw / day Development: no adverse effects were observed (oral, rat) NOAEL 150 mg / kg bw / day
Acetic acid: Not available
N,N-Dimethyltetradecylamine N-Oxide: Non-toxic for reproduction
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: Unavailable
(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO): Unavailable
Benzisothiazolinone: Not available

(h) specific target organ toxicity (STOT) single exposure:
2,2'-(octadec-9-enylimino)bisethanol: Toxic effects can be attributed to the oral administration of a corrosive / irritant test substance which causes effects due to direct contact with the prestomacal tract and to a much lesser extent than the gastrointestinal tract (small intestine).
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol: Unavailable
Acetic acid: Not available
N,N-Dimethyltetradecylamine N-Oxide: Not available
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: Unavailable
(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO): Unavailable
Benzisothiazolinone: Not available

(i) specific target organ toxicity (STOT) repeated exposure
2,2'-(octadec-9-enylimino)bisethanol: Toxic effects can be attributed to the oral administration of a corrosive / irritant test substance which causes effects due to direct contact with the prestomacal tract and to a much lesser extent than the gastrointestinal tract (small intestine). The effects were observed at levels between 30 and 150 mg / kg / day and therefore potentially classifiable as category 2 (10 -100 mg / kg) for specific target organ toxicity after repeated exposure, if based on a study of 90 days. However, there are no indications of specific systemic toxic effects such as serious organ damage even at 150 mg / kg. Therefore, since the only effects observed at 150 mg / kg are direct irritants, with local effects limited only in the prestomacal tract to 30 mg / kg, the substance does not meet the CLP (GHS) criteria for the classification of specific target organ toxicity.
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol: NOAEL (dog): 13 mg / kg bw / day NOEL (rat): 500 ppm [1]
Acetic acid: Not available
N,N-Dimethyltetradecylamine N-Oxide: Not available
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: NOAEL (rat): 3.25 mg / kg bw / da
(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO): Unavailable
Benzisothiazolinone: Not available

(j) aspiration hazard:
2,2'-(octadec-9-enylimino)bisethanol: Unavailable

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol: Unavailable
Acetic acid: Not available
N,N-Dimethyltetradecylamine N-Oxide: Not available
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: Unavailable
(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO): Unavailable
Benzisothiazolinone: Not available

11.2. Information on other hazards

No data available.

11.2.1. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

SECTION 12. Ecological information

12.1. Toxicity

==========
Related to contained substances:
2,2'-(octadec-9-enylimino)bisethanol:
Acute toxicity - fish LC50 (mg/l/96h): > 0.1
Acute toxicity - crustaceans EC50 (mg/l/48h): > 0.01
Acute toxicity algae ErC50 (µg/l/72-96h): >0.01
Chronic toxicity - crustaceans EC10 (µg/l): > 0.001
Chronic toxicity algae NOEC (µg/l): >0.01
C(E)L50 (mg/l) = 0,1 Acute toxicity M-factor = 10
NOEC (mg/l) = 0,043 Chronic toxicity M-factor = 1

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol:
Acute toxicity - fish LC50 (mg/l/96h): > 0.1
Acute toxicity - crustaceans EC50 (mg/l/48h): > 0.01
Acute toxicity algae ErC50 (mg/l/72-96h): > 0 .01
Chronic toxicity - fish NOEC (mg/l):nd
Chronic toxicity - crustaceans NOEC (mg/l): > 0.001
Chronic toxicity algae NOEC (mg/l): > 0.01
C(E)L50 (mg/l) = 0,1 Acute toxicity M-factor = 10
Chronic toxicity M-factor = 1

Acetic acid:
Acute toxicity - fish LC50 (mg / l / 96h): >300
Acute toxicity - shellfish EC50 (mg / l / 48h): >300
Acute toxicity ErC50 algae (mg / l / 72-96h): >300
Acute toxicity M-factor = 1
Chronic toxicity M-factor = 1

N,N-Dimethyltetradecylamine N-Oxide:
LC50 - Fish 10.3 mg/l/96h (Danio rerio)
Acute toxicity M-factor = 1
Chronic toxicity M-factor = 1

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines:
Acute toxicity - fish LC50 (mg / l / 96h):> 0.01
Acute toxicity - crustaceans EC50 (mg / l / 48h): 0.320 - 0.980
Acute toxicity algae ErC50 (mg / l / 72-96h): 0.080-0.460
Chronic toxicity - NOEC fish (mg / l): na
Chronic toxicity - NOEC crustaceans (mg / l) (21 days) 0.013
Chronic toxicity NOEC algae (mg / l): 0.030-0.150
C(E)L50 (mg/l) = 0,08 Acute toxicity M-factor = 10
NOEC (mg/l) = 0,013 Chronic toxicity M-factor = 10

(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO):
Acute toxicity - fish LC50 (mg / l / 96h): na
Acute toxicity - crustaceans EC50 (mg / l / 48h): na
Acute algae toxicity ErC50 (mg / l / 72-96h): na
Chronic toxicity - fish NOEC (mg / l): <0.01 (CESIUS)
Chronic toxicity - NOEC crustaceans (mg / l): <0.01 (CESIUM)
Chronic toxicity NOEC algae (mg / l): <0.01 (CESIUM)
Acute toxicity M-factor = 1
NOEC (mg/l) = 0,01 Chronic toxicity M-factor = 1

Benzisothiazolinone:
Acute toxicity - fish LC50 (mg/l/96h): 2.18 Oncorhynchus mykiss - Method: OECD Test Guideline 203
Acute toxicity - crustaceans EC50 (mg/l/48h): 2.94 Daphnia magna - Test method, Directive 92/69/EEC.
Acute toxicity to algae ErC50 (mg/l/72-96h):0.11 Selenastrum capricornutum - Test type: Growth inhibitory
Chronic toxicity to fish NOEC (mg/l 28 days): 0.21 Oncorhynchus mykiss - Test type: Growth inhibitory
Chronic toxicity to crustaceans NOEC (mg/l/21d): 0.91 Daphnia magna - Test type: Reproduction test - Method: OECD Test Guideline 211
Chronic toxicity to algae NOEC (mg/l): 0.026 Pseudokirchneriella subcapitata
Toxicity to soil living organisms EC50 (mg/kg/14d): > 410.6 Eisenia fetida Method: OECD Test Guideline 207 Toxicity to soil living organisms EC50 (mg/kg/28d): 263.7 Method: OECD TG 216
Acute toxicity M-factor = 1
Chronic toxicity M-factor = 1

The product is dangerous for the environment as it is very toxic to aquatic organisms following acute exposure.
The product is dangerous for the environment as it is toxic to aquatic organisms following acute exposure.

Use according to good working practices and avoid to disperse the product into the environment.

12.2. Persistence and degradability

==========
Related to contained substances:
2,2'-(octadec-9-enylimino)bisethanol:
Rapidly biodegradable OECD Method 301/B - 28d - > 60%

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol:
Quickly biodegradable OECD 301 / D - 28d> -60%

Acetic acid:
Easily biodegradable (20d 96%)

N,N-Dimethyltetradecylamine N-Oxide:
Biodegradable

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines:

Quickly biodegradable Guideline 301D

(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO):
Rapid degradable OECD 301 / D - 28d> -60%

Benzisothiazolinone:
Not rapidly biodegradable

12.3. Bioaccumulative potential

==========
Related to contained substances:
2,2'-(octadec-9-enylimino)bisethanol:
nd

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol:
BFC 500 Log Kow (Log Pow) 3.6 (25 ° C)

Acetic acid:
Not applicable

N,N-Dimethyltetradecylamine N-Oxide:
Not available

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines:
BFC 173 Kd: 697 L / kg 2.6 - 51.9% organic carbon

(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO):
Unavailable

Benzisothiazolinone:
log KOW is 0.70 at pH 7

12.4. Mobility in soil

==========
Related to contained substances:
2,2'-(octadec-9-enylimino)bisethanol:
nd

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol:
Koc at 20 ° C: 90520

Acetic acid:
Not applicable

N,N-Dimethyltetradecylamine N-Oxide:
Easily absorbed by the soil

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines:
Henry's law constant: 0.01 Pa.m³.mol-1 (25 ° C)

(Z)-Octadec-9-enylamine, ethoxylated (3-10 EO):
Unavailable

Benzisothiazolinone:
Not available

12.5. Results of PBT and vPvB assessment

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

12.6. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

12.7. Other adverse effects

No adverse effects

Regulation (EC) No 2006/907 - 2004/648
The (I) surfactant (s) content (s) in this preparation complies (comply) with (i) the biodegradability criteria as laid down in Regulation CE/648/2004 on detergents. All data are held at the disposal of the competent authorities of Member States and will be provided, at their direct request or at the request of a detergent manufacturer, to those authorities.

SECTION 13. Disposal considerations

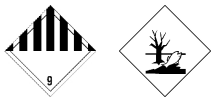
13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.
Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

SECTION 14. Transport information

14.1. UN number or ID number

ADR/RID/IMDG/ICAO-IATA: 3082



If subject to the following characteristics is ADR exempt:
Combination packagings: per inner packaging 5 L per package 30 kg
Inner packaging placed in skrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 kg

14.2. UN proper shipping name

ADR/RID/IMDG: MATERIA PERICOLOSA PER L'AMBIENTE, LIQUIDA, N.A.S. (Ammine in miscela)
ADR/RID/IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Mixture of fatty amines)
ICAO-IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mixture of fatty amines)

14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 9
ADR/RID/IMDG/ICAO-IATA: Label : 9 + ENVIRONMENTALLY HAZARDOUS
ADR: Tunnel restriction code : --
ADR/RID/IMDG/ICAO-IATA: Limited quantities : 5 L
IMDG - EmS : F-A, S-F

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: III

14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is environmentally hazardous
IMDG: Marine polluting agent : Yes

14.6. Special precautions for user

The transport must be carried out by authorized vehicles for the transport of dangerous goods in accordance with the requirements of the applicable Edition of the agreement A.D.R. and national provisions. The transport must be carried out in the original packaging and in packages that are made from materials resistant to content and not likely to generate with this dangerous reactions. The process of loading and unloading of dangerous goods have received adequate training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk is not foreseen

SECTION 15. Regulatory information

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

Restrictions relating to the product or the substances contained (Annex XVII EC Reg. 1907/2006): not applicable
Substances in Candidate list (art. 59 EC Reg. 1907/2006): the product does not contain SVHC in percentage = a 0.1 %.

Regulation (EC) 648/04: see point 2.2
Regulation (EU) 528/2012: see point 2.2

Seveso category:
E1 - ENVIRONMENTAL HAZARDS

REGULATION (EU) No 1357/2014 - waste:
HP4 - Irritant — skin irritation and eye damage
HP14 - Ecotoxic

15.2. Chemical safety assessment

Chemical safety assessment was carried out by the supplier of:
2,2'-(octadec-9-enylimino)bisethanol,
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol
N,N-Dimethyltetradecylamine N-Oxide
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines
Acetic Acid
Benzisothiazolinone

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 2.2. Label elements 3.2 Mixtures 4.3. Indication of any immediate medical attention and special treatment needed 8.1. Control parameters, 8.2. Exposure controls 10.1. Reactivity, 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008, 11.2. Information on other hazards, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3. Bioaccumulative potential, 12.4. Mobility in soil, 12.5. Results of PBT and vPvB assessment, 12.6. Endocrine disrupting properties 15.1. Safety, health and environmental regulations/ legislation specific for the substance or mixture

Description of hazard statements set out in paragraph 3
H302 = Harmful if swallowed.
H314 = Causes severe skin burns and eye damage.
H318 = Causes serious eye damage.
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.
H226 = Flammable liquid and vapour.
H315 = Causes skin irritation.
H411 = Toxic to aquatic life with long lasting effects.
H304 = May be fatal if swallowed and enters airways.
H335 = May cause respiratory irritation.
H373 = May cause damage to organs through prolonged or repeated exposure .
H317 = May cause an allergic skin reaction.
H330 = Fatal if inhaled.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008

H315 - Causes skin irritation. Classification procedure: Calculation method
H318 - Causes serious eye damage. Classification procedure: Calculation method
H400 - Very toxic to aquatic life. Classification procedure: Calculation method
H411 - Toxic to aquatic life with long lasting effects. Classification procedure: Calculation method

Main normative references:
Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.
Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.
Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable
n.d.: not available
ADR: Accord europèen relative au transport International des merchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE: Acute Toxicity Estimat
BFC: BioconCentration Factor
BOD: Biochemical Oxigen Demand
CAS: Chemical Abstract Service number
CAP: Centre AntiPoison
CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)
CL50/LC50: Lethal Concentration 50
DL50/LD50: Lethal Dose 50
COD: Chemical Oxygen Demand
DNEL: Derived No Effect Level

EC50: half maximal Effective Concentration
ERC: Enviroment Release Classes
EU/UE: European Union
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods code
Kow: Octanol water partition coefficient
NOEC: No Observed Effect Concentration
OEL: Occupational Exposure Limit
PBT: Persistent Bioaccumulative and Toxic
PC: Product Categories
PNEC: Predicted No Effect Concentration
PROC: Process Categories
RID: Règlement concernent le transport International ferroviaire des merchandises dangereuses (Regulations concerning International rail transport of dangerous goods)
STOT: Target Organ Systemic Toxicity
STOT (RE): Repeated Exposure
STOT (SE): Single Exposure
STP: Sewage Treatment Plants
SU: Sector of Use
SVCH: Substance of Very High Concern
TLV: Threshold Limit Value
vPvB: Very Persistent Very Bioaccumulative

References and Sources:
- ECHA Registered Substances:
https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances

- SDS raw material supplier

- GESTIS International Limit Value: http://limitvalue.ifa.dguv.de

This msds was made in good faith by technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

*** this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: classification dossier update

SUMI

Safe Use of Mixtures Information

AISE_SUMI_IS_8b_1

Version 1.1, August 2018

Transfer and dilution of concentrated product by using dedicated dosing system

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

This SUMI applies to industrial uses where products are transferred to or diluted in a dedicated dosing system. This Safe Use Information is based on the **AISE_SWED_IS_8b_1_L** and **AISE_SWED_IS_8b_1_S**

Operational Conditions

Maximum duration	60 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	Wear suitable gloves. See section 8 of the SDS of this product for specifications. 
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. **Don't smoke.** **Don't use in proximity of open flame.**	
Wash hands after use. **Avoid contact with damaged skin.** **Do not mix with other products.**	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

This is a document for communicating generic conditions of safe use of a product. It is the responsibility of the formulator to link this SUMI to the SDS of a specific product that he is selling.
If a SUMI (or associated SWED) code is mentioned in the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.
Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.
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SUMI

Safe Use of Mixtures Information

AISE_SUMI_IS_7_5

Version 1.1, August 2018

Industrial spraying; Automated task; Open system; Long term

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

The SUMI applies to industrial spraying products. This Safe Use Information is based on the **AISE_SWED_IS_7_5**.

Operational Conditions

Maximum duration	480 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	See section 8 of the SDS of this product for specifications.
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. **Don't smoke.** **Don't use in proximity of open flame.**	
Wash hands after use. **Avoid contact with damaged skin.** **Do not mix with other products.**	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

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Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.
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WORKING ISTRUCTION TABLE

IMPROVEMENT THROUGH BIOTECHNOLOGY

This tab provides instructions for appropriate and safe use of products and proper management of emergency situations for cleaning staff/users.

Attached to MSDS rel#11 08/18/25

Use description	Industrial spraying[PROC7],Transfer of substance or preparation (charging / discharging) from/to containers at dedicated facilities[PROC8B]
Product name	**LUBISAN Super Dry**
Classification of the product (100%)	H315- Causes skin irritation. H318 - CCauses serious eye damage.. H410: Very toxic to aquatic life with long lasting effects. EUH208: Contains preservatives: Benzisothiazolinone. May produce an allergic reaction.
Classification of the diluted product (maximum use concentration)	At maximux concentration of use (0,6%) the product is classified: Not dangerous according to reg.(CE) n. 1272/2008
Handling of the product (100%)	Avoid contact and inhalation of vapors Wear protective gloves and eye/face protection. At work do not eat or drink.
Handling of the diluted product	Avoid contact and inhalation of vapors At work do not eat or drink.
DPI required concentrated product (racking, concentrated use)	Chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)
Diluited product	No DPI required for intende uses
In case of emergency (accidents involving exposure to the product)	Immediately inform the customer. Immediately inform the employer. Contact Poisons Centres tel. number in 1.4 section of the MSDS
Accidental release large quantities measures: concentrated product	Wear gloves, mask and protective clothing (for specifications refer to section 8.2. SDS) Possibly absorb it with inert materia or sucked it. After wiping up, wash with water the area and materials involved

Diluited product	Wear gloves and protective clothing. (for specifications refer to section 8.2. SDS) Wash with water the area and materials involved
Storage of the product	Keep in original container closed tightly. Do not store in open or unlabelled containers. Keep containers upright and safe by avoiding the possibility of falls or collisions. Store in a cool and dry place, away from heat sources and direct exposure to sunlight.
In case of accidents, emergency or fire	Immediately inform the customer. Follow company emergency instruction.