

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



DISPERPLAST-I

Version: 10.0
SDB_IE

Revision Date: 11.05.2026

Date of last issue: 03.01.2023
Print Date: 12.05.2026

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

1.1 Product identifier

Trade name : DISPERPLAST-I
Product code : 000000000000106541

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

Use of the Substance/Mixture : Wetting & Dispersing Additive

1.3 Details of the supplier of the safety data sheet

Company : BYK-Chemie GmbH
Abelstrasse 45
46483 Wesel
Telephone : +49 281 670-0
Telefax : +49 281 65735

Information : Regulatory Affairs
Telephone : +49 281 670-23532
Telefax : +49 281 670-23533
E-mail address : GHS.BYK@altana.com

1.4 Emergency telephone number

+44 1235 239670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.
Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.

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Precautionary statements : **Prevention:**
P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves.
Response:
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- 85711-47-3 Fatty acids, C14-18 and C16-18-unsatd., maleated, reaction products with oleylamine
- 108-31-6 maleic anhydride

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

Chemical nature : Solution of a partial amide of an unsaturated polycarboxylic acid polymer

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|---|---|--------------------|--------------------------|
| Fatty acids, C14-18 and C16-18-unsatd., maleated, reaction products with oleylamine | 85711-47-3 288-307-8 01-2120097630-54-0000 | Skin Sens. 1; H317 | >= 30 - < 50 |
| octamethylcyclotetrasiloxane [D4] | 556-67-2 | Repr. 2; H361f | >= 0,0025 - < |

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| | | | |
|------------------|---|---|---------------------|
| | 209-136-7 01-2119529238-36 | Aquatic Chronic 1; H410 PBT; EUH440 vPvB; EUH441 Flam. Liq. 3; H226 M-Factor (Chronic aquatic toxicity): 10 | 0,025 |
| maleic anhydride | 108-31-6 203-571-6 01-2119472428-31 | Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT RE 1; H372 (Respiratory system) EUH071 specific concentration limit Skin Sens. 1A; H317 >= 0,001 % Acute toxicity estimate Acute oral toxicity: 1.090 mg/kg | >= 0,001 - < 0,1 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical
advice.
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.

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Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : Causes skin irritation.
May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

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

Hazardous combustion products : Nitrogen oxides (NO_x)
Carbon oxides
Oxides of phosphorus

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

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6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,
acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the
application area.
Dispose of rinse water in accordance with local and national
regulations.
Persons susceptible to skin sensitisation problems or asthma,
allergies, chronic or recurrent respiratory disease should not
be employed in any process in which this mixture is being
used.

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

Hygiene measures : 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. Electrical installations / working materials must comply
with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

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| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|--|------------|--|---------------------|--------|
| Alkylphthalate | 26761-40-0 | OELV - 8 hrs (TWA) | 5 mg/m ³ | IE OEL |
| maleic anhydride | 108-31-6 | OELV - 8 hrs (TWA) (Inhalable fraction and vapour) | 0,01 ppm | IE OEL |
| Further information: Chemical agents which following exposure may cause sensitisation of the respiratory tract and lead to asthma, rhinitis or extrinsic allergic alveolitis | | | | |

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

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|-----------|-----------------|--|-------------------------|
| Fatty acids, C14-18 and C16-18-unsatd., maleated, reaction products with oleylamine | Workers | Dermal | Long-term systemic effects | 0,5 mg/kg |
| | Consumers | Dermal | Long-term systemic effects | 0,25 mg/kg |
| | Consumers | Oral | Long-term systemic effects | 0,25 mg/kg |
| octamethylcyclotetrasiloxane [D4] | Consumers | Oral | Acute systemic effects, Long-term systemic effects | 3,7 mg/kg |
| | Consumers | Inhalation | Acute systemic effects, Acute local effects, Long-term systemic effects, Long-term local effects | 13 mg/m ³ |
| | Workers | Inhalation | Acute systemic effects, Acute local effects, Long-term systemic effects, Long-term local effects | 73 mg/m ³ |
| maleic anhydride | Workers | Inhalation | Long-term systemic effects, Long-term local effects | 0,081 mg/m ³ |
| | Workers | Inhalation | Systemic effects, Acute effects, Local effects | 0,2 mg/m ³ |

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

| Substance name | Environmental Compartment | Value |
|---|---|----------|
| Fatty acids, C14-18 and C16-18-unsatd., maleated, reaction products with oleylamine | Hazard for predators: secondary poisoning | 10 mg/kg |
| octamethylcyclotetrasiloxane [D4] | Fresh water | 1,5 µg/l |

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| | Marine water | 0,15 µg/l |
| | Fresh water sediment | 0,64 mg/kg |
| | Soil | 0,84 mg/kg |
| | Sewage treatment plant | 10 mg/l |
| | Marine sediment | 0,064 mg/kg |
| | Hazard for predators: secondary poisoning | 41 mg/kg |
| maleic anhydride | Fresh water | 0,038 mg/l |
| | Marine water | 0,0038 mg/l |
| | Intermittent releases | 0,379 mg/l |
| | Soil | 0,037 mg/kg |
| | Fresh water sediment | 0,296 mg/kg |
| | Marine sediment | 0,0296 mg/kg |
| | Sewage treatment plant | 44,6 mg/l |

8.2 Exposure controls

Personal protective equipment

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

Hand protection

Material : butyl-rubber
Break through time : 120,00 min

Remarks : The suitability for a specific workplace should be discussed
with the producers of the protective gloves.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and
concentration of the dangerous substance at the work place.

Environmental exposure controls

General advice : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : light brown

Odour : none

Odour Threshold : No data available

Melting point/freezing point : < 0 °C
Method: derived

Initial boiling point : > 200,00 °C
Method: derived

Upper explosion limit / Upper : No data available

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flammability limit

Lower explosion limit / Lower
flammability limit : No data available

Flash point : 190,00 °C
Method: 49 (Pensky-Martens)

Auto-ignition temperature : > 200 °C
Method: DIN 51794

pH : 6 (20 °C)
Concentration: 1 %
Method: Universal pH-value indicator

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : immiscible

Solubility in other solvents : No data available

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

Vapour pressure : < 1,0000000 hPa (20,00 °C)
Method: derived

Relative density : No data available

Density : 0,9650 g/cm³ (20,00 °C)
Method: 4 (20°C oscillating U-tube)

Bulk density : Not applicable

Relative vapour density : No data available

9.2 Other information

Evaporation rate : No data available

Surface tension : No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

No data available

SECTION 11: Toxicological information

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

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000,000000 mg/kg
Method: OECD Test Guideline 401

Components:

Fatty acids, C14-18 and C16-18-unsatd., maleated, reaction products with oleylamine:

Acute oral toxicity : LD50 Oral (Rat, female): > 2.000 mg/kg
Method: OECD Test Guideline 423
GLP: yes

maleic anhydride:

Acute oral toxicity : LD50 (Rat, male and female): 1.090 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit, female): 2.620 mg/kg
GLP: No information available.

Skin corrosion/irritation

Causes skin irritation.

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Product:

Species : Rabbit
Assessment : Irritating to skin.
Method : OECD Test Guideline 404
Result : Skin irritation

Remarks : May irritate skin.
May cause skin irritation and/or dermatitis.

Components:

Fatty acids, C14-18 and C16-18-unsatd., maleated, reaction products with oleylamine:

Species : Rabbit
Result : No skin irritation
GLP : yes

Species : EPISKIN human epidermis skin constructs
Method : OECD Test Guideline 439
Result : No skin irritation
GLP : yes

maleic anhydride:

Species : Rabbit
Method : No information available.
Result : Corrosive to skin
GLP : no

Serious eye damage/eye irritation

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

Product:

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

Remarks : Vapours may cause irritation to the eyes, respiratory system
and the skin.

Components:

Fatty acids, C14-18 and C16-18-unsatd., maleated, reaction products with oleylamine:

Species : Rabbit
Result : No eye irritation
GLP : yes

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

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maleic anhydride:

Species : Rabbit
Result : Corrosive to eyes
GLP : yes

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Remarks : Causes sensitisation.

Components:

Fatty acids, C14-18 and C16-18-unsatd., maleated, reaction products with oleylamine:

Test Type : Mouse Local Lymph Node assay (LLNA)
Species : Mouse
Assessment : May cause sensitisation by skin contact.
Method : OECD Test Guideline 429
Result : May cause sensitisation by skin contact.
GLP : yes

octamethylcyclotetrasiloxane [D4]:

Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.
GLP : yes

maleic anhydride:

Test Type : Buehler Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Causes sensitisation.
GLP : yes

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Fatty acids, C14-18 and C16-18-unsatd., maleated, reaction products with oleylamine:

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Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: In vitro mammalian cell gene mutation test (mouse lymphoma)

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Product:

Remarks : No data available

Components:

Fatty acids, C14-18 and C16-18-unsatd., maleated, reaction products with oleylamine:

Species : Rat, female
NOAEL : 400 mg/kg
Application Route : Oral
Method : OECD Test Guideline 422
GLP : yes
Target Organs : Gastro-intestinal system

Species : Rat, male
NOAEL : 150 mg/kg
Application Route : Oral
Method : OECD Test Guideline 422
GLP : yes
Target Organs : Gastro-intestinal system

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Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Endocrine disrupting properties

Not classified due to lack of data.

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 : No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Components:

Fatty acids, C14-18 and C16-18-unsatd., maleated, reaction products with oleylamine:

Toxicity to fish : LL50 (Leuciscus idus (Golden orfe)): > 150 mg/l
Exposure time: 48 h
Test Type: static test
Method: DIN 38412
GLP: no

LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

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Toxicity to algae/aquatic plants : ErL50 (Pseudokirchneriella subcapitata (microalgae)): 98 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 520 mg/l
Exposure time: 16 h
Test Type: Cell multiplication inhibition test
Method: DIN 38412, L 8
GLP: no

EC50 (activated sludge): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
GLP: yes

maleic anhydride:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 75 mg/l
Exposure time: 96 h
Test Type: static test
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 42,81 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata): 74,35 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
GLP: no

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

Fatty acids, C14-18 and C16-18-unsatd., maleated, reaction products with oleylamine:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301
GLP: no

Result: Partially biodegradable.
Method: OECD Test Guideline 301F

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GLP: yes

maleic anhydride:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301B
GLP: yes

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

maleic anhydride:

Partition coefficient: n- : log Pow: -2,61 (19,8 °C)
octanol/water pH: 4 - 9
Method: OECD Test Guideline 107
GLP: yes

12.4 Mobility in soil

Components:

maleic anhydride:

Distribution among : Koc: 42, log Koc: 1,63
environmental compartments

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.

Components:

octamethylcyclotetrasiloxane [D4]:

Assessment : Persistent, Bioaccumulative and Toxic (PBT).
: Very persistent and very bioaccumulative (vPvB).

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

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levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number or ID number

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

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)

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

ADR : Not regulated as a dangerous good

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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

Not applicable

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 3

Number on list 52: Alkylphthalate

Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

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).

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

15.2 Chemical safety assessment

For further information see eSDS.

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SECTION 16: Other information

Items where relevant changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of H-Statements

| | | |
|--------|---|---|
| EUH440 | : | Accumulates in the environment and living organisms including in humans. |
| EUH441 | : | Strongly accumulates in the environment and living organisms including in humans. |
| H226 | : | Flammable liquid and vapour. |
| H302 | : | Harmful if swallowed. |
| H314 | : | Causes severe skin burns and eye damage. |
| H317 | : | May cause an allergic skin reaction. |
| H318 | : | Causes serious eye damage. |
| H334 | : | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H361f | : | Suspected of damaging fertility. |
| H372 | : | Causes damage to organs through prolonged or repeated exposure if inhaled. |
| H410 | : | Very toxic to aquatic life with long lasting effects. |
| EUH071 | : | Corrosive to the respiratory tract. |

Full text of other abbreviations

| | | |
|-----------------------------|---|---|
| Acute Tox. | : | Acute toxicity |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |
| Eye Dam. | : | Serious eye damage |
| Flam. Liq. | : | Flammable liquids |
| PBT | : | Persistent, bioaccumulative and toxic |
| Repr. | : | Reproductive toxicity |
| Resp. Sens. | : | Respiratory sensitisation |
| Skin Corr. | : | Skin corrosion |
| Skin Sens. | : | Skin sensitisation |
| STOT RE | : | Specific target organ toxicity - repeated exposure |
| vPvB | : | Very persistent and very bioaccumulative |
| IE OEL | : | Ireland. List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 and 2 |
| IE OEL / OELV - 8 hrs (TWA) | : | Occupational exposure limit value (8-hour reference period) |

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 Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and

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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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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 - Organisation 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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECL - 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:

| | |
|---------------|------|
| Skin Irrit. 2 | H315 |
| Skin Sens. 1 | H317 |

Classification procedure:

| |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method |

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

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Annex: Exposure Scenarios

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| ES 1 | Polymerisation; Industrial uses (SU3). |
| ES 2 | Use as an intermediate; Industrial uses (SU3). |

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ES 1: **Polymerisation**; Industrial uses (SU3).

1.1. Title section

| | | |
|------------------------|---|--|
| Exposure Scenario name | : | Polymerisation |
| Structured Short Title | : | Polymerisation ; Industrial uses (SU3). |

| Environment | | |
|-------------|--|--------|
| CS 1 | Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) | ERC6c |
| Worker | | |
| CS 2 | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions | PROC1 |
| CS 3 | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions | PROC2 |
| CS 4 | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition | PROC3 |
| CS 5 | Transfer of substance or mixture (charging/discharging) at dedicated facilities | PROC8b |
| CS 6 | Use as laboratory reagent | PROC15 |

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6c)

| Product (article) characteristics |
|---|
| Covers concentrations up to 100 % |
| Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply |
| No specific measures identified. |

1.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

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| | |
|--|--------------------|
| Product (article) characteristics | |
| Covers concentrations up to 100 % | |
| Physical form of product | : Solid |
| Vapour pressure | : 0,33 hPa |
| Temperature | : 25 °C |
| Amount used (or contained in articles), frequency and duration of use/exposure | |
| Duration | : 480 min |
| Use frequency | : 5 days per week |
| Technical and organisational conditions and measures | |
| Local exhaust ventilation | |
| Conditions and measures related to personal protection, hygiene and health evaluation | |
| Wear suitable gloves tested to EN374. Wear a respirator conforming to EN140. Inhalation - minimum efficiency of 95 % | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Palm of one hand |
| Indoor or outdoor use | : Indoor |
| Ventilation rate per hour | : 3 - 5 |

1.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

| | |
|---|------------|
| Product (article) characteristics | |
| Covers concentrations up to 100 % | |
| Physical form of product | : Solid |
| Vapour pressure | : 0,33 hPa |
| Temperature | : 25 °C |
| Amount used (or contained in articles), frequency and duration of use/exposure | |
| Duration | : 480 min |

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| | |
|--|--|
| Use frequency | : 5 days per week |
| Technical and organisational conditions and measures | |
| Local exhaust ventilation | |
| Conditions and measures related to personal protection, hygiene and health evaluation | |
| Wear suitable gloves tested to EN374. Inhalation - minimum efficiency of 95 % | |
| Wear a respirator conforming to EN140. | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Palms of both hands (480 cm ²) |
| Indoor or outdoor use | : Indoor |
| Ventilation rate per hour | : 3 - 5 |

1.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

| | |
|--|-------------------|
| Product (article) characteristics | |
| Covers concentrations up to 100 % | |
| Physical form of product | : Solid |
| Vapour pressure | : 0,33 hPa |
| Temperature | : 25 °C |
| Amount used (or contained in articles), frequency and duration of use/exposure | |
| Duration | : 480 min |
| Use frequency | : 5 days per week |
| Technical and organisational conditions and measures | |
| Local exhaust ventilation | |
| Conditions and measures related to personal protection, hygiene and health evaluation | |
| Wear suitable gloves tested to EN374. Inhalation - minimum efficiency of 95 % | |
| Wear a respirator conforming to EN140. | |

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| Other conditions affecting workers exposure | |
|--|--------------------|
| Body parts exposed | : Palm of one hand |
| Indoor or outdoor use | : Indoor |
| Ventilation rate per hour | : 3 - 5 |

1.2.5. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

| Product (article) characteristics | |
|--|----------------------|
| Covers concentrations up to 100 % | |
| Physical form of product | : Solid |
| Vapour pressure | : 0,33 hPa |
| Temperature | : 25 °C |
| Amount used (or contained in articles), frequency and duration of use/exposure | |
| Duration | : 240 min |
| Use frequency | : 5 days per week |
| Technical and organisational conditions and measures | |
| Local exhaust ventilation | |
| Conditions and measures related to personal protection, hygiene and health evaluation | |
| Wear suitable gloves tested to EN374. Inhalation - minimum efficiency of 95 % | |
| Wear a respirator conforming to EN140. | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Palm of both hands |
| Indoor or outdoor use | : Indoor |
| Ventilation rate per hour | : 3 - 5 |

1.2.6. Control of worker exposure: Use as laboratory reagent (PROC15)

| Product (article) characteristics | |
|--|--|
|--|--|

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| | |
|--|--------------------|
| Covers concentrations up to 100 % | |
| Physical form of product | : Solid |
| Vapour pressure | : 0,33 hPa |
| Temperature | : 25 °C |
| Amount used (or contained in articles), frequency and duration of use/exposure | |
| Duration | : 240 min |
| Use frequency | : 5 days per week |
| Technical and organisational conditions and measures | |
| Local exhaust ventilation | |
| Conditions and measures related to personal protection, hygiene and health evaluation | |
| Wear suitable gloves tested to EN374. Inhalation - minimum efficiency of 95 % | |
| Wear a respirator conforming to EN140. | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Palm of one hand |
| Indoor or outdoor use | : Indoor |
| Ventilation rate per hour | : 3 - 5 |

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6c)

| |
|---|
| Additional information on exposure estimation |
| As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |

1.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|-------------------|-----|
| dermal | | | 0,001764 mg/kg | |

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| | | | | |
|--|--|--|--------|--|
| | | | bw/day | |
|--|--|--|--------|--|

1.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|--------------------------|-----|
| dermal | | | 0,068576 mg/kg bw/day | |

1.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|--------------------------|-----|
| dermal | | | 0,034336 mg/kg bw/day | |

1.3.5. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|--------------------------|-----|
| dermal | | | 0,411454 mg/kg bw/day | |

1.3.6. Worker exposure: Use as laboratory reagent (PROC15)

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|--------------------------|-----|
| dermal | | | 0,010336 mg/kg bw/day | |

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

For scaling see
<http://www.ecetoc.org/tra>

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ES 2: Use as an intermediate; Industrial uses (SU3).

2.1. Title section

| | |
|------------------------|--|
| Exposure Scenario name | : Use as an intermediate |
| Structured Short Title | : Use as an intermediate; Industrial uses (SU3). |

| Environment | | |
|-------------|--|--------|
| CS 1 | Use of intermediate | ERC6a |
| Worker | | |
| CS 2 | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions | PROC1 |
| CS 3 | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions | PROC2 |
| CS 4 | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition | PROC3 |
| CS 5 | Transfer of substance or mixture (charging/discharging) at dedicated facilities | PROC8b |
| CS 6 | Use as laboratory reagent | PROC15 |

2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Use of intermediate (ERC6a)

| Product (article) characteristics |
|---|
| Covers concentrations up to 100 % |
| Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply |
| No specific measures identified. |

2.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

| Product (article) characteristics |
|-----------------------------------|
| Covers concentrations up to 100 % |

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| | |
|--|--------------------|
| Physical form of product | : Solid |
| Vapour pressure | : 0,33 hPa |
| Temperature | : 25 °C |
| Amount used (or contained in articles), frequency and duration of use/exposure | |
| Duration | : 480 min |
| Use frequency | : 5 days per week |
| Technical and organisational conditions and measures | |
| Local exhaust ventilation | |
| Conditions and measures related to personal protection, hygiene and health evaluation | |
| Wear suitable gloves tested to EN374. Inhalation - minimum efficiency of 95 % | |
| Wear a respirator conforming to EN140. | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Palm of one hand |
| Indoor or outdoor use | : Indoor |
| Ventilation rate per hour | : 3 - 5 |

2.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

| | |
|---|-------------------|
| Product (article) characteristics | |
| Covers concentrations up to 100 % | |
| Physical form of product | : Solid |
| Vapour pressure | : 0,33 hPa |
| Temperature | : 25 °C |
| Amount used (or contained in articles), frequency and duration of use/exposure | |
| Duration | : 480 min |
| Use frequency | : 5 days per week |
| Technical and organisational conditions and measures | |

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| | |
|--|--|
| Local exhaust ventilation | |
| Conditions and measures related to personal protection, hygiene and health evaluation | |
| Wear suitable gloves tested to EN374. Inhalation - minimum efficiency of 95 % | |
| Wear a respirator conforming to EN140. | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Palms of both hands (480 cm ²) |
| Indoor or outdoor use | : Indoor |
| Ventilation rate per hour | : 3 - 5 |

2.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

| | |
|--|--------------------|
| Product (article) characteristics | |
| Covers concentrations up to 100 % | |
| Physical form of product | : Solid |
| Vapour pressure | : 0,33 hPa |
| Temperature | : 25 °C |
| Amount used (or contained in articles), frequency and duration of use/exposure | |
| Duration | : 480 min |
| Use frequency | : 5 days per week |
| Technical and organisational conditions and measures | |
| Local exhaust ventilation | |
| Conditions and measures related to personal protection, hygiene and health evaluation | |
| Wear suitable gloves tested to EN374. Inhalation - minimum efficiency of 95 % | |
| Wear a respirator conforming to EN140. | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Palm of one hand |

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| | | |
|---------------------------|---|--------|
| Indoor or outdoor use | : | Indoor |
| Ventilation rate per hour | : | 3 - 5 |

2.2.5. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

| | |
|--|-------------------|
| Product (article) characteristics | |
| Covers concentrations up to 100 % | |
| Physical form of product | : Solid |
| Vapour pressure | : 0,33 hPa |
| Temperature | : 25 °C |
| Amount used (or contained in articles), frequency and duration of use/exposure | |
| Duration | : 240 min |
| Use frequency | : 5 days per week |
| Technical and organisational conditions and measures | |
| Local exhaust ventilation | |
| Conditions and measures related to personal protection, hygiene and health evaluation | |
| Wear suitable gloves tested to EN374. Inhalation - minimum efficiency of 95 % | |
| Wear a respirator conforming to EN140. | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Both hands |
| Indoor or outdoor use | : Indoor |
| Ventilation rate per hour | : 3 - 5 |

2.2.6. Control of worker exposure: Use as laboratory reagent (PROC15)

| | |
|--|---------|
| Product (article) characteristics | |
| Covers concentrations up to 100 % | |
| Physical form of product | : Solid |

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| | |
|--|--------------------|
| Vapour pressure | : 0,33 hPa |
| Temperature | : 25 °C |
| Amount used (or contained in articles), frequency and duration of use/exposure | |
| Duration | : 240 min |
| Use frequency | : 5 days per week |
| Technical and organisational conditions and measures | |
| Local exhaust ventilation | |
| Conditions and measures related to personal protection, hygiene and health evaluation | |
| Wear suitable gloves tested to EN374. Inhalation - minimum efficiency of 95 % | |
| Wear a respirator conforming to EN140. | |
| Other conditions affecting workers exposure | |
| Body parts exposed | : Palm of one hand |
| Indoor or outdoor use | : Indoor |
| Ventilation rate per hour | : 3 - 5 |

2.3. Exposure estimation and reference to its source

2.3.1. Environmental release and exposure: Use of intermediate (ERC6a)

| |
|---|
| Additional information on exposure estimation |
| As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |

2.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|--------------------------|-----|
| dermal | | | 0,001764 mg/kg bw/day | |

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2.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|--------------------------|-----|
| dermal | | | 0,068576 mg/kg bw/day | |

2.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|--------------------------|-----|
| dermal | | | 0,034336 mg/kg bw/day | |

2.3.5. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|--------------------------|-----|
| dermal | | | 0,411454 mg/kg bw/day | |

2.3.6. Worker exposure: Use as laboratory reagent (PROC15)

| Exposure route | Health effect | Exposure indicator | Exposure estimate | RCR |
|----------------|---------------|--------------------|--------------------------|-----|
| dermal | | | 0,010336 mg/kg bw/day | |

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

For scaling see
<http://www.ecetoc.org/tra>