DALTOFOAM® TE 34201

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

1.1 Product identifier

Trade name : DALTOFOAM® TE 34201

Unique Formula Identifier (UFI) : K3E9-00PM-J00W-7V9T

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

Use of the Substance/Mixture : Component of a Polyurethane System.

1.3 Details of the supplier of the safety data sheet

Company : Huntsman Holland BV
Address : Merseyweg 10
3197 KG Botlek-Rotterdam
Netherlands
Telephone : +31 181 299111
Telefax : +31 181 293900
Company : Huntsman (Poland) Sp. z o.o
Address : ul. Szyszkowa 7
02-285 Warszawa
Poland
Telephone : +48 22 825 33 35, +48 22 825 88 26

E-mail address of person responsible for the SDS : Global_Product_EHS_HPU@huntsman.com

1.4 Emergency telephone number

Emergency telephone number : EUROPE: +32 35 75 1234
USA: +1 800 424 9300
ASIA: +65 6542 9595
China: +86 20 39377888
+86 532 83889090
India: + 91 22 42 87 5333
Australia: 1 800 786 152
New Zealand: 0 800 767 437

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.
Eye irritation, Category 2	H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Warning

Hazard statements :	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
Precautionary statements :	**Prevention:**	
	P264	Wash skin thoroughly after handling.
	P280	Wear protective gloves/ eye protection/ face protection.
	Response:	
	P302 + P352	IF ON SKIN: Wash with plenty of water.
	P332 + P313	If skin irritation occurs: Get medical advice/ attention.
	P337 + P313	If eye irritation persists: Get medical advice/ attention.
	P362 + P364	Take off contaminated clothing and wash it before reuse.

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

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
benzyldimethylamine	103-83-3 203-149-1 612-074-00-7 01-2119529232-48	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 1 - < 2,5

		Acute toxicity estimate Acute dermal toxicity: 1 477 mg/kg	
Alcohols, C9-11, ethoxylated	68439-46-3 Polymer	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 1 - < 3
cyclohexyldimethylamine	98-94-2 202-715-5 01-2119533030-60	Flam. Liq. 3; H226 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 0,25 - < 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.
Treat symptomatically.
Get medical attention if symptoms occur.

Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
No action shall be taken involving any personal risk or without suitable training.

If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

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 : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
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

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	Exercise caution when using a high volume water jet as it may scatter and spread fire

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	No information available.
Hazardous combustion products	:	Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Specific extinguishing methods	:	No data is available on the product itself.
Further information	:	No action shall be taken involving any personal risk or without suitable training.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions	:	Do not flush into surface water or sanitary sewer system. 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., See Section 1 for emergency contact information., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	:	Ensure that eyewash stations and safety showers are close to the workstation location.
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.
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. Keep in properly labelled containers.
Advice on common storage	:	For incompatible materials please refer to Section 10 of this SDS.
Further information on storage stability	:	Stable under normal conditions.

7.3 Specific end use(s)

Specific use(s)	:	No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
benzyldimethylamine	Workers	Inhalation	Long-term systemic effects	4,9 mg/m3
	Workers	Inhalation	Acute systemic effects	9,9 mg/m3
	Workers	Dermal	Long-term systemic effects	1,4 mg/kg bw/day
	Workers	Dermal	Acute systemic effects	2,8 mg/kg bw/day

	Consumers	Inhalation	Long-term systemic effects	0,87 mg/m3
	Consumers	Inhalation	Acute systemic effects	1,74 mg/m3
	Consumers	Dermal	Long-term systemic effects	0,5 mg/kg bw/day
	Consumers	Dermal	Acute systemic effects	1 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,25 mg/kg bw/day
	Consumers	Oral	Acute systemic effects	0,5 mg/kg bw/day
D-Glucitol, propoxylated	Workers	Inhalation	Long-term systemic effects	98 mg/m3
	Workers	Dermal	Long-term systemic effects	13,9 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	29 mg/m3
	Consumers	Dermal	Long-term systemic effects	8,3 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	8,3 mg/kg bw/day
Glycerol, propoxylated	Workers	Dermal	Long-term systemic effects	13,9 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	98 mg/m3
	Consumers	Dermal	Long-term systemic effects	8,3 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	29 mg/m3
	Consumers	Oral	Long-term systemic effects	8,3 mg/kg bw/day
cyclohexyldimethylamine	Workers	Inhalation	Long-term systemic effects	0,53 mg/m3
	Workers	Inhalation	Long-term local effects	8,3 mg/m3
	Workers	Inhalation	Acute local effects	8,3 mg/m3
	Workers	Dermal	Long-term systemic effects	0,6 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
benzyldimethylamine	Fresh water	0,005 mg/l
	Marine water	0 mg/l
	Sewage treatment plant	534 mg/l
	Fresh water sediment	0,071 mg/kg dry weight (d.w.)
	Marine sediment	0,007 mg/kg dry weight (d.w.)
	Soil	0,011 mg/kg dry weight (d.w.)
D-Glucitol, propoxylated	Fresh water	0,2 mg/l
	Marine water	0,02 mg/l
	Freshwater - intermittent	10 mg/l

	Fresh water sediment	0,52 mg/kg dry weight (d.w.)
	Marine sediment	0,052 mg/kg dry weight (d.w.)
	Soil	0,066 mg/kg dry weight (d.w.)
	Sewage treatment plant	1000 mg/l
Glycerol, propoxylated	Fresh water	0,2 mg/l
	Marine water	0,02 mg/l
	Freshwater - intermittent	1 mg/l
	Fresh water sediment	0,52 mg/kg dry weight (d.w.)
	Marine sediment	0,052 mg/kg dry weight (d.w.)
	Soil	0,0665 mg/kg dry weight (d.w.)
	Sewage treatment plant	1000 mg/l
cyclohexyldimethylamine	Freshwater - intermittent	0,035 mg/l
	Marine water	0,00035 mg/l
	Fresh water sediment	0,0369 mg/kg dry weight (d.w.)
	Marine sediment	0,00369 mg/kg dry weight (d.w.)
	Sewage treatment plant	20,6 mg/l
	Soil	0,00533 mg/kg dry weight (d.w.)

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection
Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. 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.

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid
Colour : No data is available on the product itself.
Odour : No data available
Odour Threshold : No data available

pH	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	> 100 °C Method: closed cup
Flammability (solid, gas)	:	No data is available on the product itself.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1,081 g/cm3 (25 °C)
Bulk density	:	No data available
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data is available on the product itself.
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	not determined
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	1 950 mPa.s (25 °C)
Viscosity, kinematic	:	No data available

9.2 Other information

Explosive properties	:	Not applicable
Oxidizing properties	:	No data available
Burning rate	:	No data is available on the product itself.
Evaporation rate	:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : carbon monoxide
carbon dioxide

SECTION 11: Toxicological information

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

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2 000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2 000 mg/kg
Method: Calculation method

Components:

benzyldimethylamine:

Acute oral toxicity : LD50 (Rat, male): 579 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 2052 mg/m3
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit, male): ca. 1 477 mg/kg

Acute toxicity estimate: 1 477 mg/kg
Method: Calculation method

Alcohols, C9-11, ethoxylated:

Acute oral toxicity : LD50 (Rat, male and female): 1.2 g/kg
Method: OECD Test Guideline 401
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): > 0,22 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2 000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

cyclohexyldimethylamine:

Acute oral toxicity : LD50 (Rat, male and female): > 272 - < 289 mg/kg
Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat, male and female): > 1 700 - < 5 800 mg/m³
Exposure time: 6 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: yes
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rat, male and female): 380 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The component/mixture is toxic after single contact with skin.

Skin corrosion/irritation

Components:

benzyldimethylamine:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Causes burns.
GLP : yes

Alcohols, C9-11, ethoxylated:

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

cyclohexyldimethylamine:

Species	:	Rabbit
Assessment	:	Causes burns.
Result	:	Causes burns.

Serious eye damage/eye irritation

Components:

benzyldimethylamine:

Species	:	Rabbit
Assessment	:	Severe eye irritation
Result	:	Severe eye irritation

Alcohols, C9-11, ethoxylated:

Species	:	Rabbit
Result	:	Risk of serious damage to eyes.
GLP	:	yes

cyclohexyldimethylamine:

Assessment	:	Risk of serious damage to eyes.
Result	:	Risk of serious damage to eyes.

Respiratory or skin sensitisation

Components:

benzyldimethylamine:

Test Type	:	Maximisation Test
Exposure routes	:	Skin
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
GLP	:	yes

Alcohols, C9-11, ethoxylated:

Exposure routes	:	Skin
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.

cyclohexyldimethylamine:

Test Type	:	Local lymph node assay (LLNA)
Exposure routes	:	Skin
Species	:	Mouse
Assessment	:	Did not cause sensitisation on laboratory animals.

Method : OECD Test Guideline 429
Result : Did not cause sensitisation on laboratory animals.
GLP : yes

Germ cell mutagenicity

Components:

benzyldimethylamine:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: Chromosome aberration test in vitro
Result: positive
GLP: yes

Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse (male and female)
Cell type: Somatic
Application Route: Oral
Exposure time: 24 h
Dose: 150 mg/kg
Result: negative
GLP: yes

Alcohols, C9-11, ethoxylated:

Genotoxicity in vitro : Concentration: 2 - 100 µg/L
Method: OECD Test Guideline 476
Result: negative

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Cell type: Germ + somatic
Application Route: Oral
Dose: 80 - 800 mg/kg
Method: OECD Test Guideline 475
Result: negative

cyclohexyldimethylamine:

Genotoxicity in vitro : Test Type: reverse mutation assay
Test system: Salmonella tryphimurium and E. coli
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
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
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 490
Result: negative
GLP: yes

Test Type: unscheduled DNA synthesis assay
Test system: rat hepatocytes
Method: DNA Damage and Repair - Unscheduled DNA Synthesis - Mammalian Cells In Vitro
Result: negative
GLP: yes

Carcinogenicity

Components:

Alcohols, C9-11, ethoxylated:

Species	:	Rat, male and female
Application Route	:	Oral
Exposure time	:	24 month(s)
Dose	:	500 mg/kg
Result	:	negative

cyclohexyldimethylamine:

Result	:	negative

Reproductive toxicity

Components:

benzyldimethylamine:

Effects on foetal development : Test Type: Pre-natal
Species: Rat
Application Route: Oral
Dose: 0,35,75,150 mg/kg bw/d
Duration of Single Treatment: 14 d
General Toxicity Maternal: NOAEL: 75 mg/kg body weight
Developmental Toxicity: NOEL: 150 mg/kg body weight

Method: OECD Test Guideline 414
Result: No teratogenic effects
GLP: yes

Alcohols, C9-11, ethoxylated:

Effects on fertility : Species: Rat, male and female
Application Route: Dermal
Target Organs: Heart
Method: OECD Test Guideline 416

Target Organs: Liver

Target Organs: Lungs

Target Organs: Kidney

Target Organs: Testes

Effects on foetal development : Species: Rat, male and female
Application Route: Dermal
Result: No teratogenic effects

cyclohexyldimethylamine:

Effects on fertility : Test Type: Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test
Species: Rat, male and female
Application Route: Oral
Dose: 0/150/500/1500 ppm
General Toxicity - Parent: NOAEL: > 1 500 mg/kg body weight
General Toxicity F1: NOAEL: 1 500 mg/kg body weight
Method: OECD Test Guideline 422
Result: negative
GLP: yes

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Rat, male and female
Application Route: Oral
General Toxicity Maternal: NOAEL: 85 - 147 mg/kg body weight
Developmental Toxicity: NOAEL: 1 500 ppm
Method: OECD Test Guideline 422
Result: No teratogenic effects
GLP: yes

Test Type: Pre-natal
Application Route: Oral
Dose: 0/10/30/100 mg/kg bw/day
Duration of Single Treatment: 17 d
Frequency of Treatment: 7 days/week
General Toxicity Maternal: NOEL: 30 mg/kg body weight
Developmental Toxicity: NOEL: 100 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

benzyldimethylamine:

Species	:	Rat, male and female
NOEL	:	50 mg/kg
Application Route	:	oral (gavage)
Exposure time	:	28 d
Number of exposures	:	7 d
Dose	:	0,50,100,200,400 mg/kg bw/d
Method	:	Subacute toxicity
GLP	:	yes

Species	:	Rat, male and female
NOAEL	:	ca. 150 mg/kg
Application Route	:	oral (gavage)
Exposure time	:	28 d
Number of exposures	:	7 d/w
Dose	:	0,6,30,150 mg/kg bw/d
Method	:	Subacute toxicity
GLP	:	yes

Alcohols, C9-11, ethoxylated:

Species	:	Rat, male and female
NOAEL	:	>= 500 mg/kg/d
Application Route	:	Ingestion
Exposure time	:	2 160 h
Method	:	Subchronic toxicity

Species	:	Rat, male and female
NOAEL	:	>= 400 mg/kg/d
Application Route	:	Ingestion
Exposure time	:	2 160 h
Method	:	Subchronic toxicity

Species	:	Rat, male and female
NOAEL	:	>= 125 mg/kg/d
Application Route	:	Skin contact
Exposure time	:	2 160 h
Number of exposures	:	3 d
Method	:	Subchronic toxicity

cyclohexyldimethylamine:

Species	:	Rat, male and female
NOEC	:	750 ppm
Application Route	:	Ingestion
Test atmosphere	:	vapour
Exposure time	:	11 Days

Number of exposures	:	5 d
Method	:	OECD Test Guideline 422
Species	:	Rat, male and female
NOAEL	:	100 mg/kg
Application Route	:	oral (gavage)
Exposure time	:	90 days
Number of exposures	:	7 days/week
Dose	:	0/10/50/100 mg/kg bw/day
Method	:	OECD Test Guideline 408
GLP	:	yes
Species	:	Rat, male and female
	:	85 - 147 mg/kg
Application Route	:	oral (feed)
Exposure time	:	28 -54 days
Number of exposures	:	7 days/Week
Dose	:	0/150/500/1500 ppm
Method	:	OECD Test Guideline 422
GLP	:	yes
Species	:	Rat, male and female
	:	104 mg/m³ air
Application Route	:	inhalation (vapour)
Exposure time	:	9 d 6 h
Number of exposures	:	5 days/Week
Dose	:	0/104/389 mg/m³ air
GLP	:	yes

Aspiration toxicity

No data available

11.2 Information on other hazards

Endocrine disrupting properties

Product:

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

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

benzyldimethylamine:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 37,8 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Test substance: Fresh water
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.2.
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 1,34 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.3.
GLP: yes

EC10 (Desmodesmus subspicatus (green algae)): 0,24 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.3.
GLP: yes

Toxicity to microorganisms : EC50 (Pseudomonas putida): 749,6 mg/l
Exposure time: 17 h
Test Type: static test
Analytical monitoring: no
Test substance: Fresh water
Method: DIN 38 412 Part 8
GLP: no

EC10 (Pseudomonas putida): 534 mg/l
Exposure time: 17 h
Test Type: static test
Analytical monitoring: no
Test substance: Fresh water
Method: DIN 38 412 Part 8
GLP: no

Toxicity to daphnia and other aquatic invertebrates : NOEC: 0,789 mg/l
Exposure time: 21 d

(Chronic toxicity)		Species: Daphnia magna (Water flea) Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 211 GLP: yes

Ecotoxicology Assessment

Acute aquatic toxicity	:	Harmful to aquatic life.
Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.

Alcohols, C9-11, ethoxylated:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 12 mg/l Exposure time: 96 h Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 5,4 mg/l Exposure time: 48 h Test Type: static test Test substance: Fresh water GLP: no
Toxicity to algae/aquatic plants	:	EC50 (Other): > 8,9 mg/l Exposure time: 72 h Test substance: Fresh water Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 10 g/l Exposure time: 16,9 h Test Type: static test Test substance: Fresh water Method: DIN 38 412 Part 8
Toxicity to fish (Chronic toxicity)	:	NOEC: 1,47 mg/l Exposure time: 28 d Species: Pimephales promelas (fathead minnow) Test substance: Fresh water Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EC10: 2,579 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: Fresh water Method: OECD Test Guideline 202
Toxicity to soil dwelling organisms	:	LC50: > 1 000 mg/kg Exposure time: 336 h Species: Eisenia fetida (earthworms)
Plant toxicity	:	NOEC: >= 100 mg/kg Exposure time: 456 h

Test substance: Natural
Method: Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test
GLP:yes

cyclohexyldimethylamine:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 31,58 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: no
Test substance: Fresh water
Method: DIN 38412
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 75 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Test substance: Fresh water
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 3,5 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 0,32 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Pseudomonas putida): 206 mg/l
Exposure time: 17 h
Test Type: static test
Test substance: Fresh water
Method: DIN 38 412 Part 8
GLP: yes

12.2 Persistence and degradability

Components:

benzyldimethylamine:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 100 mg/l
Result: Not readily biodegradable.
Biodegradation: 0 - 2 %
Exposure time: 28 d
Method: OECD Test Guideline 301C

Alcohols, C9-11, ethoxylated:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 60 - 95,4 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

cyclohexyldimethylamine:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge, non-adapted
Concentration: 29 mg/l
Result: Readily biodegradable.
Biodegradation: > 90 %
Exposure time: 18 d
Method: OECD Test Guideline 301A
Test substance: Fresh water
GLP: yes

12.3 Bioaccumulative potential

Components:

benzyldimethylamine:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Exposure time: 42 d
Bioconcentration factor (BCF): 2,1 - 22
Test substance: Fresh water
Method: flow-through test
Remarks: Bioaccumulation is unlikely.

Species: Cyprinus carpio (Carp)
Exposure time: 14 d
Bioconcentration factor (BCF): 2,1 - 6,4
Test substance: Fresh water
Method: flow-through test
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1,98
pH: 13

Alcohols, C9-11, ethoxylated:

Bioaccumulation : Bioconcentration factor (BCF): < 800
Test substance: Fresh water
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 2,86 - 3,76

cyclohexyldimethylamine:

Bioaccumulation : Bioconcentration factor (BCF): 19,84 - 35,66
Remarks: Does not bioaccumulate.

Partition coefficient: n- : log Pow: 2,31 (25 °C)

octanol/water	Method: OECD Test Guideline 107 GLP: no

12.4 Mobility in soil

Components:

Alcohols, C9-11, ethoxylated:

Distribution among environmental compartments	:	Koc: 270,43 - 7231,54

12.5 Results of PBT and vPvB assessment

Product:

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

12.6 Endocrine disrupting properties

Product:

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

12.7 Other adverse effects

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. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of contents/ container to an approved waste disposal plant.
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

Not regulated as dangerous goods

14.2 UN proper shipping name

Not regulated as dangerous goods

14.3 Transport hazard class(es)

Not regulated as dangerous goods

14.4 Packing group

Not regulated as dangerous goods

14.5 Environmental hazards

Not regulated as dangerous goods

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

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

Other regulations:

Act of 25 February 2011 on chemical substances and their mixtures (i.e. Journal of Laws of 2019, No. 0, item 1225)
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L 353 from 31.12.2008) with further adaptation to technical progress (ATP).
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union L 396 from 30.12.2006, as amended).
Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
Ordinance of the Minister of Health of 10 August 2012 concerning the criteria and procedure of classification of chemical substances and their mixtures (consolidated text Dz. U. of 2015., pos. 208).

Ordinance of the Minister of Economy, Labour and Social Policy of 21st December 2005 concerning the basic requirements for personal protective equipment (Dz. U. Nr. 259, item 2173).
Ordinance of the Minister of Labour and Social Policy of 12 June 2018 concerning the highest allowable concentrations and levels of the agents harmful for health in the workplace (Dz.U 2018 pos 1286, with later amendments).
Ordinance of the Minister of Health of 2nd February 2011 concerning tests and measurement of agents harmful for health in the workplace (Dz. U. Nr. 33, item 166 wraz z późn. zm.).
Ordinance of the Minister of Health of 30th December 2004 on the health and safety of workers related to chemical agents at work (Dz. U. from 2005, Nr. 11, item 86, as amended).
Act of 14 December 2012. on Waste (Journal of Laws of 2013. pos. 21, as amended).
Act of 13 June 2013. On packaging and packaging waste Journal. U. of 2013. Item. 888, as amended).
Ordinance of the Minister of Climate of 2nd January 2020 on Waste Catalog (Dz. U. 2020 item 10).
Ordinance of the Minister of Environment on the requirements for carrying out the process of thermal treatment of waste and how to deal with waste produced in the process. (Dz. U. of 2016., Pos. 108)
Act of 19 August 2011 on transport of dangerous goods (Dz. U. Nr. 227, item 1367, as amended).
Government Statement of 18 February 2019 on enforcing of changes Annexes A and B of Agreement concerning international transport of dangerous goods by road (ADR) (Dz. U. 2019, item 769).
Ordinance of the Minister of Health of 20th April 2012 concerning labeling of containers of dangerous substances and dangerous mixtures and some mixtures ((consolidated text) Dz. U. z 2015 nr. 0 poz. 450).
Ordinance of the Minister of Health of 11th June 2012 concerning categories of dangerous substances and dangerous mixtures for which containers must be fitted with child-resistant fastenings and a tactile warning of danger (Dz. U. from 2012, item 688 as amended).

The components of this product are reported in the following inventories:

DSL	:	All components of this product are on the Canadian DSL
AIIC	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	On the inventory, or in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory

Inventories

AICS (Australia), AIIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

SECTION 16: Other information

Full text of H-Statements

H226	:	Flammable liquid and vapour.
H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H311	:	Toxic in contact with skin.
H312	:	Harmful in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H318	:	Causes serious eye damage.
H331	:	Toxic if inhaled.
H412	:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Chronic aquatic toxicity
Eye Dam.	:	Serious eye damage
Flam. Liq.	:	Flammable liquids
Skin Corr.	:	Skin corrosion

Further information

Classification of the mixture:		**Classification procedure:**
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method

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THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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