







Safety Data Sheet dated 24/2/2022, version 1

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

1.1. Product identifier

Mixture identification:

Trade name: Glitterbels Hema Free No Wipe Topcoat - Holo, Rainbow, Tinsel DTC003

Trade code: ESS039, ESS041, ESS042

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

1.3. Details of the supplier of the safety data sheet

Company: Glitterbels

Davenport Street, Burslem,

Stoke-on-Trent, Staffordshire, ST6 4LN,

United Kingdom

Telephone: 01782 901012 Email: hello@glitterbels.com

Competent person responsible for the safety data sheet:

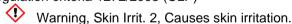
hello@glitterbels.com

1.4. Emergency telephone number

+44 1782 901012 (office hours only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture EC regulation criteria 1272/2008 (CLP)



Warning, Eye Irrit. 2, Causes serious eye irritation.

Warning, Skin Sens. 1A, May cause an allergic skin reaction.

Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

Warning, Aquatic Acute 1, Very toxic to aquatic life.

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

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements



Hazard pictograms:



Warning

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P302+P352 IF ON SKIN: Wash with plenty of 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.

P314 Get medical advice/attention if you feel unwell.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P333+P313 If skin irritation or rash 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.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contains

Pentaerythritol tetrakis(3-mercaptopropionate)

Oligo [2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone]

Ethoxylated trimethylolpropane triacrylate: May produce an allergic reaction.

Hydroxypropyl Methacrylate: May produce an allergic reaction.

2-Propenoic acid, reaction products with dipentaerythritol: May produce an allergic reaction.

Neopentylglycol propoxylate diacrylate: May produce an allergic reaction.

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients



3.1. Substances N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification or which have been assigned Occupational Exposure Limits:

Qty	Name	Ident. Number		Classification	
< 40%	Ethoxylated trimethylolpropane triacrylate	CAS: EC: REACH No.:	28961-43-5 500-066-5 01-21194899 00-30	3.3/2 Eye Irrit. 2 H319 3.4.2/1 Skin Sens. 1 H317	
< 30%	Aliphatic Urethane Acrylate Resin			3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319	
< 12.5%	Hydroxypropyl Methacrylate	CAS: EC: REACH No.:	27813-02-1 248-666-3 01-21194902 26-37	3.3/2 Eye Irrit. 2 H319 3.4.2/1 Skin Sens. 1 H317	
< 10%	Pentaerythritol tetrakis(3-mercaptopro pionate)	CAS: EC: REACH No.:	7575-23-7 231-472-8 01-21194869 81-23	3.1/4/Oral Acute Tox. 4 H302 3.4.2/1A Skin Sens. 1A H317 4.1/A1 Aquatic Acute 1 H400 4.1/C1 Aquatic Chronic 1 H410	
< 7%	2-Propenoic acid, reaction products with dipentaerythritol	CAS: EC: REACH No.:	1384855-91-7 800-838-4 01-21199806 66-22	3.3/2 Eye Irrit. 2 H319 3.4.2/1A Skin Sens. 1A H317 4.1/C3 Aquatic Chronic 3 H412	
- < 3%	diphenyl(2,4,6-trimethy lbenzoyl)phosphine oxide	Index number: CAS: EC: REACH No.:	015-203-00-X 75980-60-8 278-355-8 01-21199722 95-29	3.7/2 Repr. 2 H361f	
< 2.5%	Oligo [2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone]	CAS: EC: REACH No.:	163702-01-0 402-990-3 01-21200165 08-60	3.7/2 Repr. 2 H361 3.9/1 STOT RE 1 H372 4.1/C4 Aquatic Chronic 4 H413	
< 2.5%	Neopentylglycol propoxylate diacrylate	CAS: EC: REACH No.:	84170-74-1 617-546-6 01-21199702 13-43	3.4.2/1B Skin Sens. 1B H317 4.1/C2 Aquatic Chronic 2 H411	
< 0.3%	Reaction mass of Bis(1,2,2,6,6-pentamet hyl-4-piperidyl) sebacate and Methyl 1,2,	CAS: EC: REACH No.:	1065336-91-5 915-687-0 01-21194913 04-40	3.4.2/1A Skin Sens. 1A H317 4.1/A1 Aquatic Acute 1 H400 4.1/C1 Aquatic Chronic 1 H410	
<0.25%	1-methoxy-2-propanol; monopropylene glycol methyl ether	Index number: CAS:	603-064-00-3 107-98-2	2.6/3 Flam. Liq. 3 H226 3.8/3 STOT SE 3 H336	



	EC:	203-539-1
	REACH No.:	01-21194574
		35-35

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and water.

In case of eye contact:

After contact with the eyes, rinse with water with the eyelids open for 15 minutes, then seek prompt medical advice.

Protect uninjured eye.

In case of ingestion:

Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable remove to hospital and bring these instructions.

In case of inhalation:

Remove casualty to fresh air and keep warm and at rest. For breathing difficulties oxygen may be necessary.

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

None

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

In case of accident or experiencing symptoms, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

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See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose of it.

In case of escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: sand, earth, vermiculite etc.

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Ensure empty containers have been cleaned of any residue before reuse.

Before transferring product, ensure that there are no traces of incompatible material residues in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

See section 1.2

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

- OEL Type: EH40/2005 - TWA(8h): 375 mg/m3, 100 ppm - STEL: 560 mg/m3, 150 ppm - Notes: (Sk)

- OEL Type: EU - TWA(8h): 375 mg/m3, 100 ppm - STEL: 563 mg/m3, 150 ppm -

- OEL Type: ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - Eye and URT

DNEL Exposure Limit Values

Ethoxylated trimethylolpropane triacrylate - CAS: 28961-43-5

Worker Industry: 0.8 mg/kg - Consumer: 0.48 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects - Endpoint: bw/day

Worker Industry: 16.2 mg/m3 - Consumer: 4.9 mg/m3 - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 1.39 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic

effects - Endpoint: bw/day



Pentaerythritol tetrakis(3-mercaptopropionate) - CAS: 7575-23-7

Worker Industry: 5 mg/kg - Consumer: 2.5 - Exposure: Human Dermal - Frequency:

Long Term, systemic effects - Endpoint: bw/day

Worker Industry: 1.74 mg/m3 - Consumer: 0.43 - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects - Endpoint: bw/day

Consumer: 0.25 - Exposure: Human Oral - Frequency: Long Term, systemic effects -

Endpoint: bw/day

PNEC Exposure Limit Values

Ethoxylated trimethylolpropane triacrylate - CAS: 28961-43-5

Target: Fresh Water - Value: 0.00195 mg/l Target: Marine water - Value: 0.000195 mg/l

Target: Freshwater sediments - Value: 0.0082 mg/kg Target: Marine water sediments - Value: 0.00082 mg/kg Target: Soil (agricultural) - Value: 0.00587 mg/kg

Pentaerythritol tetrakis(3-mercaptopropionate) - CAS: 7575-23-7

Target: Fresh Water - Value: 0.03 ug/l Target: Marine water - Value: 0.0034 ug/l

Target: Freshwater sediments - Value: 1.02 μg/kg Target: Marine water sediments - Value: 0.102 μg/kg

Target: Soil (agricultural) - Value: 0.184 µg/kg

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid		
Colour:	Colourless		
Odour:	Characteristic		
Melting point/freezing	N.A.		
point:			
Boiling point or initial	N.A.		
boiling point and boiling			
range:			
Flammability:	N.A.		



Lower and upper explosion	N.A.		
limit:			
Flash point:	N.A.		
Auto-ignition temperature:	N.A.		
Decomposition	N.A.		
temperature:			
pH:	N.A.		
Kinematic viscosity:	N.A.		
Solubility in water:	Insoluble		
Solubility in oil:	N.A.		
Partition coefficient	N.A.		
n-octanol/water (log value):			
Vapour pressure:	N.A.		
Density and/or relative	1.10		
density:			
Relative vapour density:	N.A.		
Particle characteristics:			
Particle size:	N.A.		

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

 Hazardous decomposition products None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological information of the product:

DRY SURFACE GLITTER TOP COAT SERIES

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

c) serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319

d) respiratory or skin sensitisation



The product is classified: Skin Sens. 1A H317

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

The product is classified: STOT RE 2 H373

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Ethoxylated trimethylolpropane triacrylate - CAS: 28961-43-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg bw

Test: LD50 - Route: Skin - Species: Rabbit 13200 mg/kg bw

Hydroxypropyl Methacrylate - CAS: 27813-02-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit >= 5000 mg/kg

Pentaerythritol tetrakis(3-mercaptopropionate) - CAS: 7575-23-7

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 1000 mg/kg bw

Test: LC50 - Route: Inhalation - Species: Rat 3363 mg/m3

2-Propenoic acid, reaction products with dipentaerythritol - CAS: 1384855-91-7

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide - CAS: 75980-60-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

Oligo [2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone] - CAS: 163702-01-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat >= 5000 mg/kg bw

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg bw

Neopentylglycol propoxylate diacrylate - CAS: 84170-74-1

a) acute toxicity:

Test: LD0 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LC0 - Route: Skin - Species: Rat > 2000 mg/kg bw

Test: LC0 - Route: Inhalation - Species: Rat > 2 mg/l

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg



Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices to avoid releasing the product into the environment.

DRY SURFACE GLITTER TOP COAT SERIES

The product is classified: Aquatic Acute 1 - H400; Aquatic Chronic 2 - H411

Ethoxylated trimethylolpropane triacrylate - CAS: 28961-43-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Danio rerio (zebra fish) 1.95 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 70.7 mg/l - Duration h: 48

Endpoint: ErC50 - Species: Desmodesmus subspicatus (green algae) 2.2 mg/l -

Duration h: 72

Hydroxypropyl Methacrylate - CAS: 27813-02-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 493 mg/l - Duration h: 48

Endpoint: EC50 - Species: Daphnia > 143 mg/l - Duration h: 48

Pentaerythritol tetrakis(3-mercaptopropionate) - CAS: 7575-23-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Oncorhynchus mykiss (rainbow trout) 0.034 mg/l - Duration

h: 96

Endpoint: EC50 - Species: Daphnia > 0.35 mg/l - Duration h: 48

Endpoint: EC50 - Species: Pseudokirchneriella Subcapitata > 0.12 mg/l - Duration h:

72

Endpoint: NOEC - Species: Pseudokirchneriella Subcapitata 0.12 mg/l - Duration h: 72

2-Propenoic acid, reaction products with dipentaerythritol - CAS: 1384855-91-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 8.9 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 18 mg/l - Duration h: 48

Endpoint: IC50 - Species: Algae 100 mg/l - Duration h: 72

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide - CAS: 75980-60-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 6.53 mg/l - Duration h: 48

Endpoint: EC50 - Species: Daphnia 3.53 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 2.01 mg/l - Duration h: 72

Oligo [2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone] - CAS: 163702-01-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Danio rerio (zebra fish) > 3.7 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 3.7 mg/l - Duration h: 48

Endpoint: EC50 - Species: Pseudokirchneriella Subcapitata = 112 mg/l - Duration h: 72

Neopentylglycol propoxylate diacrylate - CAS: 84170-74-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Danio rerio (zebra fish) 2.7 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 37 mg/l - Duration h: 48

Endpoint: EC50 - Species: Pseudokirchneriella Subcapitata 11 mg/l - Duration h: 72

Endpoint: NOEC - Species: Pseudokirchneriella Subcapitata 2.3 mg/l - Duration h: 72

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2



a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 2.8 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae 0.2 mg/l - Duration h: 72

12.2. Persistence and degradability

Ethoxylated trimethylolpropane triacrylate - CAS: 28961-43-5

Biodegradability: Readily biodegradable - Duration h: 28 d - %: 60

Hydroxypropyl Methacrylate - CAS: 27813-02-1

Biodegradability: Readily biodegradable

Pentaerythritol tetrakis(3-mercaptopropionate) - CAS: 7575-23-7

Biodegradability: Not readily biodegradable

2-Propenoic acid, reaction products with dipentaerythritol - CAS: 1384855-91-7

Biodegradability: Not readily biodegradable

Neopentylglycol propoxylate diacrylate - CAS: 84170-74-1

Biodegradability: Inherently biodegradable.

12.3. Bioaccumulative potential

Ethoxylated trimethylolpropane triacrylate - CAS: 28961-43-5

Low potential for bioaccumulation.

Hydroxypropyl Methacrylate - CAS: 27813-02-1

Not bioaccumulative - Test: BCF - Bioconcentration factor 100

Pentaerythritol tetrakis(3-mercaptopropionate) - CAS: 7575-23-7

Low potential for bioaccumulation. - Test: BCF - Bioconcentration factor 23.7

2-Propenoic acid, reaction products with dipentaerythritol - CAS: 1384855-91-7

Bioaccumulative - Test: BCF - Bioconcentration factor 86.4

Neopentylglycol propoxylate diacrylate - CAS: 84170-74-1

Bioaccumulative

12.4. Mobility in soil

Ethoxylated trimethylolpropane triacrylate - CAS: 28961-43-5

Test: Koc 158.5

Hydroxypropyl Methacrylate - CAS: 27813-02-1

No data available.

Pentaerythritol tetrakis(3-mercaptopropionate) - CAS: 7575-23-7

Medium mobility in soil. - Test: Koc 2.42

Neopentylglycol propoxylate diacrylate - CAS: 84170-74-1

Test: Koc 200

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information





14.1. UN number or ID number

ADR-UN Number: 3082 IATA-UN Number: 3082 IMDG-UN Number: 3082

14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S

IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

14.3. Transport hazard class(es)

ADR-Class: 9

ADR - Hazard identification number: 90

IATA-Class: 9
IATA-Label: 9
IMDG-Class: 9

14.4. Packing group

ADR-Packing Group: III IATA-Packing group: III IMDG-Packing group: III

14.5. Environmental hazards

ADR-Environmental Pollutant: Yes

IMDG-Marine pollutant:

Marine Pollutant

IMDG-EmS:

F-A , S-F

14.6. Special precautions for user

ADR-Subsidiary hazards:

ADR-S.P.: 274 335 375 601 ADR-Transport category (Tunnel restriction code): 3 (-)

IATA-Passenger Aircraft: 964
IATA-Subsidiary hazards: IATA-Cargo Aircraft: 964

IATA-S.P.: A97 A158 A197 A215

IATA-ERG: 91
IMDG-Subsidiary hazards: -

IMDG-Stowage and handling: Category A

IMDG-Segregation: -

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

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Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 2020/878

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 48

Restriction 75

Where applicable, refer to the following regulatory provisions:

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: E1, E2

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H315 Causes skin irritation.

H302 Harmful if swallowed.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H361f Suspected of damaging fertility, causing atrophy of the testes.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H413 May cause long lasting harmful effects to aquatic life.

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H411 Toxic to aquatic life with long lasting effects.

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3
Aquatic Chronic 4	4.1/C4	Chronic (long term) aquatic hazard, category 4

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	Classification procedure
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1A, H317	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 2, H411	Calculation method

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold



The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of

Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

CAS: Chemical Abstracts Service (division of the American Chemical

Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of

Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport

Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization"

(ICAO).

IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods

by Rail.

STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average
WGK: German Water Hazard Class.