SAFETY DATA SHEET

xMOLD

SECTION 1: Identification

1.1. Product identifier

Trade name

xMOLD

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

Relevant identified uses of the substance or mixture

Resin for production of molds

Uses advised against

The resin must not be mixed with anything else.

1.3. Details of the supplier of the safety data sheet

Company and address

Nexa 3D ApS
Mårkærvej 2
2630 Taastrup
DK-Danmark
+45 3211 9070

Contact person

-

E-mail

support@nexa3d.com

SDS date

6/21/2023

SDS Version

3.0

Date of previous version

6/12/2023 (3.0)

1.4. Emergency telephone number

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case
See also section 4 “First aid measures”.

SECTION 2: Hazard(s) identification

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture

Acute Tox. 4; H302, Harmful if swallowed.
Skin Sens. 1; H317, May cause an allergic skin reaction.
Eye Dam. 1; H318, Causes serious eye damage.
STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Hazard pictogram(s)

Signal word

Danger

Hazard statement(s)

Harmful if swallowed. (H302)
May cause an allergic skin reaction. (H317)
Causes serious eye damage. (H318)
May cause damage to organs through prolonged or repeated exposure. (H373)

Precautionary statement(s)

General

-

Prevention

Do not breathe vapour/mist. (P260)
Wash hands and exposed skin thoroughly after handling. (P264)
Contaminated work clothing should not be allowed out of the workplace. (P272)
Wear eye protection/protective gloves/protective clothing. (P280)

Response

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. (P301+P312)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
Immediately call a POISON CENTER/doctor. (P310)
Get medical advice/attention if you feel unwell. (P314)
Rinse mouth. (P330)
If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)
Take off contaminated clothing and wash it before reuse. (P362+P364)

Storage

-

Disposal

Dispose of contents/container in accordance with local regulation. (P501)

Additional labelling

Not applicable.

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
4-(1-oxo-2-propenyl)-morpholine	CAS No.: 5117-12-4	60-80%	Acute Tox. 4, H302 Skin Sens. 1, H317 Eye Dam. 1, H318 STOT RE 2, H373	
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	CAS No.: 28961-43-5	5-10%	Skin Sens. 1, H317 Eye Irrit. 2, H319	
Pentaerythritol tetrakis(3-mercaptopropionate)	CAS No.: 7575-23-7	1-3%	Acute Tox. 4, H302 Skin Sens. 1A, H317	
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	CAS No.: 162881-26-7	1-3%	Skin Sens. 1, H317	
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	CAS No.: 84434-11-7	<0,3%	Skin Sens. 1B, H317	

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

▼Other information

-

SECTION 4: First-aid measures

4.1. ▼Description of first aid measures

General information

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

▼Eye contact

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable.

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

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

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

IF exposed or concerned:
Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Sulphur oxides
Nitrogen oxides (NO_x)
Carbon oxides (CO / CO2)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.
Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure effective local exhaust ventilation and good general ventilation (3-5 air changes per hour).
Avoid direct contact with the product.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

10-25 ° C, avoid sunlight

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)

8.2. Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.
Longest permitted duration of use of the product in processes where exposure is likely: 1 hour per day.

Exposure scenarios

Information derived from the exposure scenario for one or more of the substances included in the product is integrated in the relevant points of this safety data sheet. The derived information includes, among other things, risk management measures and guidance on personal protective equipment.

Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Use only protective equipment with a recognized certification mark, e.g. the UL mark.

Respiratory Equipment

Work situation	Type	Class	Colour	Standards
In case of inadequate ventilation	A	Class 3 (High capacity)	Brown	EN14387

Skin protection

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0,5	> 480	EN374-2, EN374-3, EN388	

Eye protection

Type	Standards	
Wear safety glasses with side shields.	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Liquid

Colour
Blue

Odour
Characteristic

Odour threshold (ppm)
Testing not relevant or not possible due to the nature of the product.

pH
7

Density (g/cm³)
1.1

Kinematic viscosity
70 mPa.s

Phase changes

Melting point (°F)
No data available

Boiling point (°F)
-

Boiling point (°C)
> 100

Vapour pressure
No data available

Vapour density
No data available

Decomposition temperature (°F)
No data available

Evaporation rate (n-butylacetate = 100)
No data available

Data on fire and explosion hazards

Flash point (°F)
-

Flash point (°C)
> 100

Flammability (°F)
Testing not relevant or not possible due to the nature of the product.

Auto-ignition temperature (°F)
Testing not relevant or not possible due to the nature of the product.

Explosion limits (% v/v)
Testing not relevant or not possible due to the nature of the product.

Solubility

Solubility in water
Soluble

n-octanol/water coefficient
No data available

Solubility in fat (g/L)
No data available

9.2. Other information

Evaporation rate (n-butylacetate = 100)
No data available

Other physical and chemical parameters
No data available.

Oxidizing properties
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available.

10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products
The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Product/substance	4-(1-oxo-2-propenyl)-morpholine
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	588.00 mg/kgbw

Product/substance	4-(1-oxo-2-propenyl)-morpholine
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50 (4 hours)
Result:	> 5.28 mg/L

Product/substance	4-(1-oxo-2-propenyl)-morpholine
Test method:	OECD 402
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	2000 mg/kgbw

Product/substance	Propylidynetrimethanol, ethoxylated, esters with acrylic acid
Test method:	OECD 401
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	> 2001 mg/kg

Product/substance	Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	> 13200 mg/kg

Product/substance	Pentaerythritol tetrakis(3-mercaptopropionate)
Test method:	OECD 423
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	> 1000 mg/kg

Product/substance	Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	> 2000 mg/kg

Product/substance	Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	> 2000 mg/kg

Product/substance	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
Test method:	OECD 401
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	> 5000 mg/kgbw

Product/substance	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
Test method:	OECD 402
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	> 2000 mg/kgbw

Harmful if swallowed.

Skin corrosion/irritation

Product/substance	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
Test method:	OECD 404
Species:	Rabbit
Duration:	4 hours
Result:	No adverse effect observed (Not irritating)

Serious eye damage/irritation

Product/substance	4-(1-oxo-2-propenyl)-morpholine
Test method:	OECD 405
Species:	Rabbit
Duration:	
Result:	Adverse effect observed (Irritating)

Product/substance	Propylidynetrimethanol, ethoxylated, esters with acrylic acid
Test method:	OECD 405 Acute Eye Irritation/Corrosion
Species:	Rabbit
Duration:	No data available.
Result:	Adverse effect observed (Irritating)

Product/substance	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
Test method:	OECD 405
Species:	Rabbit
Duration:	24 hours
Result:	No adverse effect observed (Not irritating)

Causes serious eye damage.

Respiratory sensitisation

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

Skin sensitisation

Product/substance	4-(1-oxo-2-propenyl)-morpholine
Test method:	OECD 429
Species:	Guinea pig
Result:	Adverse effect observed (sensitising)

Product/substance	Propylidynetrimethanol, ethoxylated, esters with acrylic acid
Test method:	OECD 406
Species:	Guinea pig
Result:	Adverse effect observed (sensitising)

Product/substance	Pentaerythritol tetrakis(3-mercaptopropionate)
Test method:	OECD 406
Species:	Guinea pig
Result:	Adverse effect observed (sensitising)

Product/substance	Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
Test method:	OECD 406
Species:	Guinea pig
Result:	Adverse effect observed (sensitising)

Product/substance	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
Test method:	OECD 429
Species:	Mouse
Result:	Adverse effect observed (sensitising)

Germ cell mutagenicity

Product/substance	4-(1-oxo-2-propenyl)-morpholine
Test method:	OECD 471
Species:	Bacteria
Conclusion:	No adverse effect observed

Product/substance	Pentaerythritol tetrakis(3-mercaptopropionate)
Test method:	OECD 471
Species:	Bacteria
Conclusion:	No adverse effect observed

Carcinogenicity

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

Reproductive toxicity

Product/substance	4-(1-oxo-2-propenyl)-morpholine
Test method:	OECD 422
Species:	Rat
Duration:	
Test:	NOAEL
Result:	50 mg/kg bw/day
Conclusion:	No adverse effect observed

Product/substance	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
Test method:	OECD 414
Species:	Rat
Duration:	
Test:	NOAEL
Result:	> 100 mg/kg bw/day
Conclusion:	No adverse effect observed

STOT-single exposure

Product/substance	4-(1-oxo-2-propenyl)-morpholine
Test method:	OECD 407
Species:	Rat
Route of exposure:	Oral
Target organ:	
Duration:	28 days
Test:	NOAEL
Result:	50 mg/kg bw/day
Conclusion:	No adverse effect observed

Product/substance	4-(1-oxo-2-propenyl)-morpholine

Test method:	OECD 408
Species:	Rat
Route of exposure:	Oral
Target organ:	
Duration:	90 days
Test:	NOAEL
Result:	20 - 50 mg/kg bw/day
Conclusion:	No adverse effect observed

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

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

Long term effects

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	4-(1-oxo-2-propenyl)-morpholine
Test method:	OECD 201
Species:	Algae
Duration:	72 hours
Test:	LC50
Result:	120.00 mg/L

Product/substance	4-(1-oxo-2-propenyl)-morpholine
Test method:	OECD 203
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	220 mg/L

Product/substance	4-(1-oxo-2-propenyl)-morpholine
Test method:	OECD 209
Species:	Bacteria
Duration:	3 hours
Test:	LC50
Result:	> 100 mg/L

Product/substance	4-(1-oxo-2-propenyl)-morpholine
Test method:	OECD 202
Species:	Crustacean
Duration:	48 hours
Test:	LC50
Result:	120 mg/L

Product/substance	Propylidynetrimethanol, ethoxylated, esters with acrylic acid
Species:	Fish, Danio rerio
Duration:	96 hours
Test:	LC50
Result:	1,95 mg/L

Product/substance	Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
Species:	Fish, Danio rerio
Duration:	96 hours
Test:	LC50
Result:	> 90 µg/L

Product/substance	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
Test method:	OECD 201
Species:	Algae
Duration:	72 hours
Test:	LC50

Result:	1.01 mg/L

Product/substance	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
Species:	Fish, Danio rerio
Duration:	96 hours
Test:	LC50
Result:	1,89 mg/L

Product/substance	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
Test method:	OECD 209
Species:	Bacteria
Duration:	3 hours
Test:	EC50
Result:	> 1000 mg/L

Product/substance	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
Test method:	OECD 202
Species:	Crustacean
Duration:	48 hours
Test:	LC50
Result:	2,69 mg/L

12.2. Persistence and degradability

Product/substance	4-(1-oxo-2-propenyl)-morpholine
Biodegradable:	No
Test method:	OECD 301 D
Result:	35 % (28d)

Product/substance	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
Biodegradable:	No
Test method:	OECD 301 F
Result:	< 10 % (28d)

12.3. Bioaccumulative potential

Product/substance	4-(1-oxo-2-propenyl)-morpholine
Test method:	
Potential bioaccumulation:	No data available.
LogPow:	-0.46
BCF:	No data available.
Other information:	

Product/substance	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
Test method:	
Potential bioaccumulation:	No data available.
LogPow:	2,91
BCF:	No data available.
Other information:	

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

None of the components are listed

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
DOT	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PENTAERYTHRITOLTETRAKIS(3-MERCAPTOPROPIONAT)) (Pentaerythritol tetrakis(3-mercaptopropionate), Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate)	Transport hazard class: 9 Label: 9 Classification code: M6	III	No	Tunnel restriction code: 3 (-) See below for additional information.
IMDG	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PENTAERYTHRITOLTETRAKIS(3-MERCAPTOPROPIONAT)) (Pentaerythritol tetrakis(3-mercaptopropionate), Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate)	Transport hazard class: 9 Label: 9 Classification code: M6	III	No	EmS: F-A S-F See below for additional information.
IATA	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PENTAERYTHRITOLTETRAKIS(3-MERCAPTOPROPIONAT)) (Pentaerythritol tetrakis(3-mercaptopropionate), Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate)	Transport hazard class: 9 Label: 9 Classification code: M6	III	No	See below for additional information.

* Packing group

** Environmental hazards

Additional information

ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: Regulatory information

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

15.2. U.S. Federal regulations

TSCA

4-(1-oxo-2-propenyl)-morpholine is listed in the non-confidential portion

Propylidynetrimethanol, ethoxylated, esters with acrylic acid is listed in the non-confidential portion

Pentaerythritol tetrakis(3-mercaptopropionate) is listed in the non-confidential portion

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide is listed in the non-confidential portion

Clean Air Act

None of the components are listed

EPCRA Section 302

None of the components are listed

EPCRA Section 304

None of the components are listed

EPCRA section 313

None of the components are listed

CERCLA

None of the components are listed

State regulations

California / Prop. 65

None of the components are listed

Massachusetts / Right To Know Act

None of the components are listed

New Jersey / Right To Know Act

None of the components are listed

New York / Right To Know Act

None of the components are listed

Pennsylvania / Right To Know Act

None of the components are listed

15.4. Restrictions for application

Restricted to professional users.

15.5. Demands for specific education

No specific requirements.

15.6. Additional information

Not applicable.

15.7. Chemical safety assessment

No

15.8. Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.
H317, May cause an allergic skin reaction.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H373, May cause damage to organs through prolonged or repeated exposure.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CERCLA = Comprehensive Environmental Response Compensation and Liability Act
EINECS = European Inventory of Existing Commercial chemical Substances
EPCRA = Emergency Planning and Community Right-To-Know Act
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HCIS = Hazardous Chemical Information System
HNOC = Hazards Not Otherwise Classified
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NFPA = National Fire Protection Association
NIOSH = National Institute for Occupational Safety and Health
OECD = Organisation for Economic Co-operation and Development
OSHA = Occupational Safety and Health Administration
PBT = Persistent, Bioaccumulative and Toxic
RCRA = Resource Conservation and Recovery Act
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SARA = Superfund Amendments and Reauthorization Act
SCL = A specific concentration limit.
STEL = Short-term exposure limits
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure
TSCA = The Toxic Substances Control Act
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

▼The safety data sheet is validated by

Morten Givard / Sikma Consult / www.sikma.dk

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: US-en