Safety Data Sheet

SEI WHALE SLOW HARDENER

Safety Data Sheet dated 28/2/2020, version 1

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

1.1. Product identifier

Mixture identification:

Trade name: SEI WHALE SLOW HARDENER

Trade code: 15089

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

Recommended use:

Exclusive use professional user / industrial user.

1.3. Details of the supplier of the safety data sheet

HIJOS DE A. FERRER DALMAU, S.A.,

Rosalia de Castro, 21 08025 Barcelona SPAIN

Competent person responsible for the safety data sheet:

jaime@ferrer-dalmau.com

1.4. Emergency telephone number

Emergency Tel. +34 934874015 (office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Warning, Acute Tox. 4, Harmful if swallowed.

Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.

Danger, Eye Dam. 1, Causes serious eye damage.

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

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

Danger

Hazard statements:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P260 Do not breathe vapours.

P273 Avoid release to the environment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor/...
Special Provisions:
None
Contains
benzyl alcohol
3-aminomethyl-3,5,5-trimethylcyclohexylamine
1,6-Hexanediamine, 2,2,4(or 2,4,4)-trimethyl-
Special provisions according to Annex XVII of REACH and subsequent amendments:
None

2.3. Other hazards
vPvB Substances: None - PBT Substances: None
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:

Qty	Name	Ident. Number	Classification
>= 40% - < 50%	benzyl alcohol	Index number: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9 REACH No.: 01-2119492630-38	3.1/4/Oral Acute Tox. 4 H302 3.1/4/Inhal Acute Tox. 4 H332
>= 40% - < 50%	3-aminomethyl-3,5,5-trimethylcyclohexylamine	Index number: 612-067-00-9 CAS: 2855-13-2 EC: 220-666-8	3.2/1B Skin Corr. 1B H314 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317 4.1/C3 Aquatic Chronic 3 H412 3.1/4/Oral Acute Tox. 4 H302 3.1/4/Dermal Acute Tox. 4 H312
>= 7% - < 10%	1,6-Hexanediamine, 2,2,4(or 2,4,4)-trimethyl-	CAS: 25513-64-8 EC: 247-063-2 REACH No.: 01-2119560598-25	3.1/4/Oral Acute Tox. 4 H302 3.2/1A Skin Corr. 1A H314 3.3/1 Eye Dam. 1 H318 3.4.2/1 Skin Sens. 1 H317

SECTION 4: First aid measures

4.1. Description of first aid measures
In case of skin contact:
Immediately take off all contaminated clothing.
OBTAIN IMMEDIATE MEDICAL ATTENTION.
Remove contaminated clothing immediately and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.
In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.
Protect uninjured eye.

In case of Ingestion:
Do NOT induce vomiting.
Give nothing to eat or drink.

In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.

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 unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Spray 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
Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

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 it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

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.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities
Store in containers between 5 and 30 ° C, dry, well-ventilated
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)
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No occupational exposure limit available
DNEL Exposure Limit Values
benzyl alcohol - CAS: 100-51-6
Worker Professional: 47 mg/kg - Consumer: 28.5 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Worker Professional: 9.5 mg/kg - Consumer: 5.7 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 450 mg/m3 - Consumer: 40.55 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 90 mg/m3 - Consumer: 8.11 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 25 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects
Consumer: 5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
Consumer: 0.526 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
1,6-Hexanediamine, 2,2,4(or 2,4,4)-trimethyl- - CAS: 25513-64-8
Consumer: 0.05 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
PNEC Exposure Limit Values
benzyl alcohol - CAS: 100-51-6
Target: Fresh Water - Value: 1 mg/l
Target: Marine water - Value: 0.1 mg/l
Target: Freshwater sediments - Value: 5.7 mg/kg
Target: Marine water sediments - Value: 0527 mg/kg
Target: Plant wastewater treatment - Value: 39 mg/l
Target: Soil (agricultural) - Value: 0.456 mg/kg
Target: Intermittent / sporadic - Value: 2.3 mg/l
3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
Target: Fresh Water - Value: 0.06 mg/l
Target: Marine water - Value: 0.006 mg/l
Target: Freshwater sediments - Value: 5.784 mg/kg
Target: Marine water sediments - Value: 0.578 mg/kg
Target: Plant wastewater treatment - Value: 3.18 mg/l
Target: Soil (agricultural) - Value: 1.121 mg/kg
Target: Intermittent / sporadic - Value: 0.23 mg/l
1,6-Hexanediamine, 2,2,4(or 2,4,4)-trimethyl- - CAS: 25513-64-8
Target: Fresh Water - Value: 0.0295 mg/l
Target: Marine water - Value: 0.00295 mg/l
Target: Freshwater sediments - Value: 0.18 mg/kg
Target: Marine water sediments - Value: 0.018 mg/kg
Target: Plant wastewater treatment - Value: 72 mg/l
Target: Soil (agricultural) - Value: 0.019 mg/kg
8.2. Exposure controls
Eye protection:

Eye glasses with side protection.

Protection for skin:

Chemical protection clothing.

Protection for hands:

Rubber nitrilo: thickness> 0.45 mm Time of perforation> 480 min (EN 374)

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

Prevent allow material to contaminate ground water.

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Liquid,light yellow	--	--
Odour:	Characteristic	--	--
Odour threshold:	N.A.	--	--
pH:		--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	227ºC	--	--
Flash point:	106 ° C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	4 Pa (20ºC) 0.38 Pa (0.05 kPa) 50ºc	--	--
Vapour density:	Not Relevant	--	--
Relative density:	1	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	365ºC ºC	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	30 - 70 cP		--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

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
Strong acids, strong bases, strong agents oxidizers
10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological information of the product:
Poli[oxi(metil-1,2-etanodiil)],a-(2-aminometilletil)-w-(2-aminometiletoxi)-
a) acute toxicity
The product is classified: Acute Tox. 4 H302
ATEmix - Oral 561,798 mg/kg
ATEmix - Dermal 2750 mg/kg
ATEmix - Inhalation (Mist) 3,75 mg/l
b) skin corrosion/irritation
The product is classified: Skin Corr. 1A H314
c) serious eye damage/irritation
The product is classified: Eye Dam. 1 H318
d) respiratory or skin sensitisation
The product is classified: Skin Sens. 1 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
Not classified
Based on available data, the classification criteria are not met
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:
benzyl alcohol - CAS: 100-51-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 500 mg/kg
Test: LD50 - Route: Skin 2500 ml/kg
Test: LC50 - Route: Inhalation 11 mg/l - Duration: 4h
3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 1030 mg/kg

Test: LD50 - Route: Skin 1100 mg/kg
1,6-Hexanediamine, 2,2,4(or 2,4,4)-trimethyl- - CAS: 25513-64-8
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 910 mg/kg
benzyl alcohol - CAS: 100-51-6
LD50 (RABBIT) SKIN SINGLE DOSE: 2000 MG/KG

SECTION 12: Ecological information

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
Poli[oxi(metil-1,2-etanodiil)],a-(2-aminometilletil)-w-(2-aminometiletoxi)-
The product is classified: Aquatic Chronic 3 - H412
benzyl alcohol - CAS: 100-51-6
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 646 mg/l - Duration h: 48
Endpoint: EC50 - Species: crustacean 400 mg/l - Duration h: 24
Endpoint: EC50 - Species: Algae 79 mg/l - Duration h: 3
3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 110 mg/l - Duration h: 96
Endpoint: EC50 - Species: crustacean 388 mg/l - Duration h: 48
1,6-Hexanediamine, 2,2,4(or 2,4,4)-trimethyl- - CAS: 25513-64-8
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Algae 29.5 mg/l - Duration h: 72
12.2. Persistence and degradability
benzyl alcohol - CAS: 100-51-6
Biodegradability: Readily biodegradable - Duration: 28 days - %: 94
3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
Biodegradability: Non-readily biodegradable - Duration: 28 days - %: 8
1,6-Hexanediamine, 2,2,4(or 2,4,4)-trimethyl- - CAS: 25513-64-8
Biodegradability: Not persistent and Biodegradable - Duration: 28 days - %: 7
12.3. Bioaccumulative potential
benzyl alcohol - CAS: 100-51-6
Bioaccumulation: Low Bioaccumulative potential - Test: Pow- Log 1.1
Bioaccumulation: Low Bioaccumulative potential - Test: BCF - Bioconcentrantion factor 0
12.4. Mobility in soil
3-aminomethyl-3,5,5-trimethylcyclohexylamine - CAS: 2855-13-2
Mobility in soil: Not mobile - Test: Koc 928
12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
12.6. 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

ADR-UN Number:	1760
IATA-UN Number:	1760
IMDG-UN Number:	1760

14.2. UN proper shipping name

ADR-Shipping Name:	CORROSIVE LIQUID, N.O.S.(3-aminomethyl-3,5,5-trimethylcyclohexylamine)
IATA-Shipping Name:	CORROSIVE LIQUID, N.O.S.(3-aminomethyl-3,5,5-trimethylcyclohexylamine)
IMDG-Shipping Name:	CORROSIVE LIQUID, N.O.S.(3-aminomethyl-3,5,5-trimethylcyclohexylamine)

14.3. Transport hazard class(es)

ADR-Class:	8
ADR - Hazard identification number:	80
IATA-Class:	8
IATA-Label:	8
IMDG-Class:	8

14.4. Packing group

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

14.5. Environmental hazards

ADR-Enviromental Pollutant:	No
IMDG-Marine pollutant:	No

14.6. Special precautions for user

ADR-Subsidiary risks:	-
ADR-S.P.:	274
ADR-Transport category (Tunnel restriction code):	2 (E)
IATA-Passenger Aircraft:	851
IATA-Subsidiary risks:	-
IATA-Cargo Aircraft:	855
IATA-S.P.:	A3 A803
IATA-ERG:	8L
IMDG-EmS:	F-A , S-B
IMDG-Subsidiary risks:	-
IMDG-Stowage and handling:	Category B SW2
IMDG-Segregation:	-

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

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)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2015/830
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)

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

Restrictions related to the substances contained:

No restriction.

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

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H302 Harmful if swallowed.
H332 Harmful if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
H312 Harmful in contact with skin.
H318 Causes serious eye damage.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

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
Acute Tox. 4, H302	Calculation method

Skin Corr. 1A, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	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.