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Material Safety Data Sheet

Hærder (Catalyst) for Formsilikone 15 Shore A / Formsilikone 30 Shore A / Formsilikone 40 Shore A

Date / Revised: 31.08.2022

Version: 1.0

Product: Hærder (Catalyst) for Formsilikone 15/30/40 Shore A

EN

1. Identification

1.1. Product identifier

**Hærder (Catalyst) for Formsilikone 15 Shore
A/Formsilikone 30 Shore A/Formsilikone 40 Shore A**

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

Relevant identified uses: Catalyst for tin cured silicone for mould making.

1.3. Details of the supplier of the safety data sheet

Company:

Heiss Development
Pramvej 7
8940 Randers SV
Denmark

Telephone: +45 86 42 26 26

E-mail address: info@makemake.dk

CVR No.: 39641259

1.4 Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

2.1. Classification of the substance or mixture

According to UN Regulation No. 1272/2008 [CLP/GHS]

Flammable liquids (Category 3)

Acute toxicity, Inhalation (Category 4)

Eye irritation (Category 2)



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2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]



Hazards pictogram(s):

Signal word:

Hazard statement(s):

Warning
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

Precautionary statement(s):

Prevention:

Response:

Disposal:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P270 Don't eat, drink or smoke when using this product.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or a doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with local/national regulations.

2.3. Other hazards

No information available.

3. Composition/Information on Ingredients

3.1. Substances

Not relevant

3.2. Mixtures

Chemical characterization: Mixture

Component	CAS No.	EC#	In % by Weight
DIMETHYLDINEODECANOATETIN	68928-76-7	273-028-6	15
Tetraethyl Orthosilicate	78-10-4	201-083-8	65
Dimethicone	9006-65-9	----	20

4. First-Aid Measures

4.1. Description of first aid measures

General information: Normal use does not require special measures, industrial production in the long term, refer to the following:



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After eye contact:

Flush eyes with water.

After skin contact:

Wash with water and soap.

After inhalation:

Remove victim to fresh area.

After swallowing:

Do not induce vomiting. Get medical attention.

Information for doctor:

Indication of any immediate attention and special treatment needed

No further relevant information available.

5. Fire-Fighting Measures

5.1. Flammability

Flammable

5.2. Suitable extinguishing agents

Use extinguishing agent suitable for local conditions and the surrounding environment. Such as dry powder, CO₂.

5.3. Special hazards arising from the substance or mixture

Carbon dioxide, nitrogen oxides.

5.4. Advice for fire-fighters

Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

6. Accidental Release Measures

Normal use does not require special measures, industrial production in the long term, refer to the following:

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

6.2. Environmental precautions

No special environmental precautions required.

6.3. Steps to be taken in case material is spilled or released

Washed with water, sweep up and shovel.

Waste disposal method:

Dispose contaminated material as waste according to item 13.

6.4. Additional information

See Section 7 for information on safe handling.



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See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and Storage

Normal use does not require special measures, industrial production in the long term, refer to the following:

7.1. Precautions for safe handling

Keep container tightly closed in a dry and well-ventilated place. Wash hands with soap and water before eating, drinking. Ground containers when transferring liquid to prevent static accumulation and discharge.

Information about fire and explosion protection:

Flammable.

7.2. Conditions for safe storage, including incompatibilities

Requirements to be met by storerooms and receptacles

Store in a cool, dry, well-ventilated place.

Information about storage in one common storage facility

Keep away from heat, avoiding the long time of sunlight.

Further information about storage conditions

Keep container tightly sealed.

7.3. Specific end use(s)

No further relevant information available.

8. Exposure Controls/Personal Protection

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:

No further relevant information available.

8.2. Exposure controls

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages, and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Respiratory Protection: Use suitable respirator when high concentrations are present.

Personal protection: Use tightly sealed goggles

Protection of hands: Use protective gloves.



9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

General information

Appearance:	Colourless transparent
Form:	Liquid
Odour:	Not available
pH:	N/A
Change in condition	
Melting point:	Not available
Boiling point:	>35°C
Freezing point:	Not available
Flash point:	43.25°C (Closed cup)
Flammability:	Flammable
Ignition temperature:	Not available
Decomposition temperature:	Not available
Self-igniting:	Not available
Danger of explosion:	Not available
Explosion limits	
Lower:	Not available
Upper:	Not available
Oxidizing properties:	Not available
Vapour pressure:	Not available
Density:	Not available
Relative density:	Not available
Vapour density:	Not available
Evaporation rate:	Not available
Solubility in/Miscibility with water:	Hardly soluble in water
n-octanol/water partition coefficient:	Not available
Viscosity:	Not available
Dynamic:	Not available
Kinematic:	Not available
Other information:	Not available

9.2. Other information

None



10. Stability and Reactivity

10.1. Reactivity

Data not available

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

Data not available

10.4 Conditions to avoid

Flames, sparks, and other sources of ignition, incompatible materials

10.5. Incompatible materials

Substances to avoid:

Strong oxidizing agents, strong acid

Hazardous Combustible products

Carbon dioxides, nitrogen oxides.

Hazardous Polymerization

N/A

11. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

LD/LC50 Values relevant for classification_
78-10-4

Oral LD50 for rat: 6270 mg/kg

Dermal LD50 for rabbit: 5878 mg/kg

Irritation

No further relevant information available.

Sensitization:

No further relevant information available.

Additional toxicological information:

Toxicological, metabolism and distribution:

No further relevant information available.

Acute effects (acute toxicity, irritation and corrosivity):

No further relevant information available.

CMR effects (carcinogenetic, mutagenicity and toxicity for reproduction):

No further relevant information available.



12. Ecological Information

12.1. Toxicity

9006-65-9

Toxicity to fish *Oncorhynchus mykiss* (rainbow trout) LC50: >10000 mg/L/96h

Aquatic toxicity:

No further relevant information available.

12.2. Persistence and degradability

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

Ecological effects

Additional ecological information

12.7. Additional ecological information

General notes: Do not allow material to be released to the environment without proper governmental permits.

Other adverse effects: No further relevant information available.

13. Disposal Considerations

13.1. Waste treatment methods

Recommendations

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14. Transport Information

14.1. UN Number

IATA, IMDG, Model Regulation: UN1993

14.2. Proper shipping name

IATA: IMDG, Model Regulation: Flammable liquid, n.o.s.

14.3. Transport hazard class(es)

IATA, IMDG, Model Regulation: 3



14.4. Packing group

IATA, IMDG, Model Regulation: III

14.5. Environmental hazards

Marine pollutant: No

14.6. Special precautions for user

Not applicable

15. Regulatory Information

This material safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

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

Component	CAS No.	TSCA	EC#	EINECS
DIMETHYLDINEODECANOATETIN	68928-76-7	Listed	273-028-6	Listed
Tetraethyl Orthosilicate	78-10-4	Listed	201-083-8	Listed
Dimethicone	9006-65-9	Listed	---	Not listed

15.2. Assessment of chemical safety

A Chemical Safety Assessment (CSA) has not been carried out.

16. Other Information

ACGIH:	American Conference of Governmental Industrial Hygienists
BCF:	Bioconcentration Factor
BOD:	Biochemical oxygen demand
CAS:	Chemical Abstracts Service (Division of the American Chemical Society).
CLP:	EU regulation (EC) No 1272/2008 on classification, labelling and packaging.
EC:	European Commission
EC50:	Median effective concentration
EINECS:	European Inventory of Existing Commercial Chemical Substances
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IMDG:	International Maritime Dangerous Goods
LC50:	Lethal concentration, 50 percent kill
LD50:	Lethal dose, 50 percent kill
NOEC:	No observed effect concentration
NTP:	US National Toxicology Program
OSHA:	US Occupational Safety and Health
PBT:	Persistent, Bioaccumulating and Toxic
PC-STEL:	Permissible concentration-time weighted average
PC-TWA:	Permissible concentration – short time exposure limit



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PEL:	Permissible exposure limit
PNEC-value:	Predicted-No-Effect-Concentration
REL:	Recommended Exposure Limit
RRN:	REACH Registration number
RTECS:	Registry of Toxic Effects of Chemical Substances
STEL:	Short Term Exposure Limit
TDG:	Recommendation on the TRANSPORT OF DANGEROUS GOODS Model Regulations
TLV:	Threshold Limit Value
TOC:	Total Organic Carbon
TSCA:	United States Toxic Substances Control Act Section 8(b) Inventory
TWA:	Time Weighted Average
vPvB:	Very Persistent and very Bioaccumulating

Other uses should be discussed with the manufacturer.

If you have questions regarding this safety data sheet, its contents or other safety concerns regarding the product, please write to the following email address: info@makemake.dk

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