GLUNZ & JENSEN

Safety Data Sheet

according to 1907/2006/EC, Article 31

Revision date: Feb. 20th, 2017
Version: E
SDS number: 10073881

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Name: i-Finisher

Product Code: 10071596, 10071769

Product Use: For plate protection use

Manufacturer: Glunz & Jensen A/S
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DK - 4100 Ringsted
Denmark
Phone: +45 5768 8181
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Emergency phone number: For Chemical Emergency Spill Leak Fire Exposure or Accident Call CHEMTREC day or night: + 1 800 424 9300 (US and Canada)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC 1272/2008):

GHS07

Eye Irrit. 2: H319 Causes serious eye irritation.
Skin Sens. 1: H317 May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:
The product is classified and labelled according to the CLP regulation.

Hazard pictograms:

GHS07

Signal word: Warning

Hazard-determining components of labelling: Tensid

Hazard statements:
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

Precautionary statements:
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / faceprotection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/-regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Chemical characterisation

Mixtures consisting of the following components:

Dangerous components:		
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	3-<10%
CAS: 119345-04-9	Benzene, 1,1'-oxybis-, tetrapropylene derivs., sulfonated,sodium salts Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-<2.5%
CAS: 151-21-3 EINECS: 205-788-1	sodium dodecyl sulphate Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2,H319	1- 2.5%
CAS: 7664-38-2 EINECS: 231-633-2	phosphoric acid Skin Corr. 1B, H314	1- 2.5%
-	Tensid Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	1- 2.5%

Additional information: For the wording of the listed hazard phrases refer to section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information: No special measures required.
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact: Generally the product does not irritate the skin.
After eye contact: Rinse opened eye for several minutes under running water.
After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms andeffects, both acute and delayed:
No further relevant information available.

4.3 Indication of any immediatemedical attention and specialtreatment needed:
No further relevant information available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray oralcohol resistant foam.

5.2 Special hazards arising fromthe substance or mixture
No further relevant information available

5.3 Advice for firefighters

Protective equipment:
No special measures required.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions,protective equipment andemergency procedures
Not required.

6.2 Environmental precautions
Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up
Absorb with liquid-binding material (sand, diatomite, acid binders,universal binders, sawdust).

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special measures required.

Information about fire and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

7.3 Specific end use(s)

No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical facilities:
No further data; see item 7.

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace	
57-55-6Methyl glycol (10-25%)	
WEL	Long-term value: 474* 10** mg/m^3, 150* ppm *) total vapour and particulates **) particulates
67-63-0propan-2-ol (2.5-<10%)	
WEL	Short-term value: 1250 mg/m^3, 500 ppm Long-term value: 999 mg/m^3, 400 ppm
7664-38-2phosphoric acid (0.1- 2.%)	
WEL	Short-term value: 2 mg/m^3 Long-term value: 1 mg/m^3

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienicmeasures: The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:	Not necessary if room is well-ventilated. In case of brief exposure or low pollution use respiratory filter device. Incase of intensive or longer exposure use self-contained respiratory protective device.
Protection of hands:	Synthetic rubber gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves:	Nitrile rubber, NBR. Recommended thickness of the material: 0.4 mm The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Penetration time of glove material:	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection:	Goggles recommended during refilling

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information:

Appearance:	**Form:**	Liquid
	Colour:	Light yellow
Odour:		Characteristic
Odour threshold:		Not determined.
pH-value at 20 °C:		2.5
Change in condition:		
Melting point/freezing point:		Undetermined.
Initial boiling point and boiling range:		82 °C
Flash point:		Not applicable.
Flammability (solid, gas):		Not applicable.
Ignition temperature:		371 °C
Decomposition temperature:		Not determined.
Auto-ignition temperature:		Product is not selfigniting.
Explosive properties:		Product does not present an explosion hazard.
Explosion limits:		
Lower:		2.6 Vol %
Upper:		12.6 Vol %
Vapour pressure at 20 °C:		23 hPa
Density at 20 °C:		1.028 g/cm^3
Relative density:		Not determined.
Vapour density:		Not determined.
Evaporation rate:		Not determined.
Solubility in/Miscibility with water:		Fully miscible.
Partition coefficient: n-octanol/water:		Not determined.
Viscosity:	**Dynamic:**	Not determined.
	Kinematic:	Not determined.
Solvent content:	**VOC (EC):**	23.85 %

9.2 Other information
No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No further relevant information available.

10.2 Chemical stability

Thermal decomposition /conditions to be avoided:
No decomposition if used according to specifications.

10.3 Possibility of hazardousreactions
No dangerous reactions known.

10.4 Conditions to avoid
No further relevant information available.

10.5 Incompatible materials
No further relevant information available.

10.6 Hazardous decomposition products
No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
Primary irritant effect:	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

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.

Additional ecological information:

General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach groundwater, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects
No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste.
Uncleaned packaging:
Recommendation Disposal must be made according to official regulations.
Recommended cleansing agents: Water, if necessary together with cleansing agents.

ECTION 14: TRANSPORT INFORMATION

14.1 UN-Number
ADR, ADN, IMDG, IATA Void

14.2 UN proper shipping name
ADR, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)
ADR, ADN, IMDG, IATA
Class Void

14.4 Packing group
ADR, IMDG, IATA Void

14.5 Environmental hazards:
Marine pollutant: No

14.6 Special precautions for user
Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable.

UN "Model Regulation": Void

SECTION 15: REGULATORY INFORMATION

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

Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07

Signal word Warning

Hazard-determining components of labelling Tensid

Hazard statements
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
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P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Directive 2012/18/EU
Named dangerous substances -ANNEX I None of the ingredients is listed.

REGULATION (EC) No1907/2006
ANNEX XVII Conditions of restriction: 3

15.2 Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for anyspecific product features and shall not establish a legally valid contractual relationship.

Relevant phrases	H225	Highly flammable liquid and vapour.
	H302	Harmful if swallowed.
	H312	Harmful in contact with skin.
	H314	Causes severe skin burns and eye damage.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H318	Causes serious eye damage.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
	H411	Toxic to aquatic life with long lasting effects.
	H412	Harmful to aquatic life with long lasting effects.

Department issuing SDS: Abteilung Umweltschutz

Contact: Labor

Abbreviations and acronyms:

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
VOC:	Volatile Organic Compounds (USA, EU)
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	Very Persistent and very Bioaccumulative
Flam. Liq. 2:	Flammable liquids – Category 2
Acute Tox. 4:	Acute toxicity – Category 4
Skin Corr. 1B:	Skin corrosion/irritation – Category 1B
Skin Irrit. 2:	Skin corrosion/irritation – Category 2
Eye Dam. 1:	Serious eye damage/eye irritation – Category 1
Eye Irrit. 2:	Serious eye damage/eye irritation – Category 2
Skin Sens. 1:	Skin sensitisation – Category 1
STOT SE 3:	Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 2:	Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3:	Hazardous to the aquatic environment - long-term aquatic hazard – Category 3