

1. IDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY

Product Name: Enliven Liquids
 Product Code: 088, 258, 259, 271, 016

Application: Liquid carrier medium for porcelain powder.

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2. HAZARD IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device. The product is not classified, according to the CLP regulation.

Label elements

Label according to Regulation (EC) No 1272/2008

Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device.

Hazard pictograms Void

Signal word Void

Hazard statements Void

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Mixture

Description:

Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

Dangerous components:

CAS: 57-55-6	Propylene glycol	Substance with a Community workplace exposure limit	≥ 90,0%
EINECS: 200-338-0			

Additional information: For the wording of listed risk phrases refer to selection 16.

4. FIRST AID MEASURES

Description of first aid measures

General information: No special measures required. If symptoms persist consult doctor.

After inhalation: Take affected persons into fresh air and keep quiet.

After skin contact: Immediately rinse with water.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist consult doctor.

After swallowing: Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet.

Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

Additional information: Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Remove persons from danger area.

Environmental precautions:

Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.

Methods and material for containment and cleaning up:

Absorb liquid components with liquid-binding material. Dispose of the material collected according to regulations.

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

Handling:

Information for safe handling: No special measures required.

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

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Control parameters

Ingredients with limit values that require monitoring at the workplace:

57-55-6 Propylene glycol

WEL () Long-term value 474* 10** mg/m³ 150* ppm

*Total vapour and particulates ** particulates

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

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work.

Respiratory protection: Suitable respiratory protective device recommended

Protection of hands: Protective gloves

Material of gloves

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. As the product is a preparation of several substance, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed

Eye protection: Safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	Not determined
Change in condition	
Melting point/ freezing range:	Undetermined
Boiling point and Boling range:	Undetermined
Flash point:	Not applicable
Flammability (solid, gas):	Not applicable
Ignition temperature:	Undetermined
Decomposition temperature:	Not determined
Auto- igniting temperature:	Product is not self-igniting
Danger of explosion:	Product does not present an explosion hazard
Explosion limit	
Lower:	2.6 Vol%

Upper:	12.6 Vol%
Vapour pressure at 20°C:	Not determined
Density:	Not determined
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:	
Organic solvents:	99.0%
Water:	0,1%
VOC (EC):	1,000.0 g/l
Other information:	No Further relevant information available

10. STABILITY AND REACTIVITY

Reactivity:	No further relevant information available
Chemical stability	
Thermal decomposition/ conditions to be avoided:	
No decomposition if used according to specifications.	
Possibility of hazardous reaction:	No dangerous reaction known.
Conditions to avoid:	No further relevant information available.
Incompatible materials:	No further relevant information available
Hazardous decomposition products:	No dangerous decomposition products known.

11. TOXICOLOGY INFORMATION

Information on toxicological effects:

Acute toxicity: Based on available data, the classification criteria are not met

LD/LC50 values relevant for classification: No further relevant information available.

Primary irritant effects:

Skin corrosion/ irritation: Based on available data, the classification criteria are not met

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Repeated dose toxicity: No further relevant information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): No further relevant information available.

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.

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

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 ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact waste processors for recycling information.

European waste catalogue

18 00 00	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)
18 01 00	Wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 07	Chemicals other than those mentioned in 18 01 06

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary, together with cleansing agents.

14. TRANSPORT INFORMATION

UN-Number

ADR, ADN, IMDG, IAT Not regulated

UN proper shipping name

ADR, ADN, IMDG, IATA not regulated

Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Not regulated

Packing group

ADR, IMDG, IATA Not regulated

Environmental hazards:

Marine pollutant

No

Special precautions for user

Not applicable

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

Not applicable

UN "Model Regulation":

Not regulated

15. REGULATORY INFORMATION

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

16. FURTHER INFORMATION

Classification according to Regulation (EC) No 1272/2008 Calculation method

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)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative

Sources

ECHA (<http://echa.europa.eu/>)EnviChem (www.echemportal.org)

This version replaces all previous versions.

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