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Safety data sheet according to 1907/2006/EC, Article 31

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SECTION 3: Composition/information on ingredients

- · 3.1 Substances
- · CAS No. Description
- 56-85-9 L-Glutamine
- · Identification number(s)
- EC number: 200-292-1

SECTION 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: Immediately rinse with water. If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Seek medical treatment.
- After swallowing: Rinse out mouth.

If symptoms persist consult doctor.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

Water, CO2, foam, powder.

- Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide and carbon dioxide

- Non-combustible.
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust. Do not inhale dust. Ensure adequate ventilation
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up: Pick up mechanically. Avoid formation of dust. Clean up affected area.

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· 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.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Provide suction extractors if dust is formed.
 • Information about fire - and explosion protection: The product is not flammable.

- · 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: Keep container sealed.
- Recommended storage temperature: Room Temperature
- · Storage class: 13
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace: Not required.

	·	• • • • • • • • • • • • • • • • • • •			
· DNELs					
Oral	Long-term - systemic effects, general population	9.8 mg/kg			
Dermal	Long-term - systemic effects, worker	196.6 mg/kg			
	Long term - systemic effects, general population	98.3 mg/kg			
Inhalative	Long-term - systemic effects, worker	138.6 mg/m3			
	Long-term - systemic effects, general population	34.2 mg/m3			
· PNECs					
Aquatic co	mpartment - freshwater 0.95 mg/L				
Aquatic co	mpartment - marine water 0.095 mg/L				
Additiona	I information: The lists valid during the making w	vere used as basis.			
· 8 2 Expos	ure controls				
	te engineering controls No further data; see ite	m 7.			
	protection measures, such as personal prote				
· General p	rotective and hygienic measures:				
	ly remove all soiled and contaminated clothing				
• Respiratory protection: Filter P1					
Required v	Required when dusts are generated.				
Hand prot					
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.					
Selection of the glove material on consideration of the penetration times, rates of diffusion and the					
degradation					
· Material o					
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 through time has to be found out by the manufacturer of the protective gloves and					
has to be observed.					
 For the period Nitrile rubb 	ermanent contact gloves made of the following	g materials are suitable:			
	nded thickness of the material: ≥ 0.11 mm				
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Value for the permeation: Level ≥ 480 min
As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.11 mm Value for the permeation: Level ≥ 480 min
Eye/face protection Safety glasses
Body protection: Protective work clothing Protective clothing should be selected specifically for the working place, depending on

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

SECTION 9: Physical and chemical properties

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9.1 Information on basic physical and chemical	higherities		
General Information	Calid		
· Physical state	Solid		
· Colour:	White		
· Odour:	Characteristic		
Odour threshold:	Not determined.		
Melting point/freezing point:	185 °C		
Boiling point or initial boiling point and boiling			
range	Undetermined.		
Flammability	Product is not flammable.		
 Lower and upper explosion limit 			
· Lower:	Not determined.		
· Upper:	Not determined.		
[·] Flash point:	Not applicable.		
 Auto-ignition temperature: 	Not determined.		
 Decomposition temperature: 	Not determined.		
pH	4-6 (2.5%)		
· Viscosity:			
Kinematic viscosity	Not applicable.		
· Dynamic:	Not applicable.		
· Solubility			
water at 40 °C:	100 g/l		
 Partition coefficient n-octanol/water (log value) 	-3.14874		
· Vapour pressure:	Not applicable.		
Density and/or relative density			
· Density at 20 °C:	1.469 g/cm³		
· Relative density	Not determined.		
Vapour density	Not applicable.		
	••		
• 9.2 Other information			
· Appearance:	Calid		
· Form:	Solid		
Important information on protection of health			
and environment, and on safety.	Developed along wet any end of a simple star barry to		
Explosive properties:	Product does not present an explosion hazard.		
Change in condition			
· Evaporation rate	Not applicable.		
Information with regard to physical hazard			
classes			
· Explosives	Void		
Flammable gases	Void		
Aerosols	Void		
• Oxidising gases	Void		
Gases under pressure	Void		
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· Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
Oxidising solids	Void	
· Organic peroxides	Void	
Corrosive to metals	Void	
· Desensitised explosives	Void	

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 hazardous reactions 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: In the event of fire: See chapter 5

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

Quantitative data on the toxicological effect of this product are not available.

· Components

	Туре	Value	Species
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- Oral LD50 7500 mg/kg (rat)
- 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.
- · After inhalation: No irritant effect.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- 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.
- 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- Type of test Effective concentration Method Assessment
- EC50/72 h 100 mg/l (Algae)
- EC50/48 h 100 mg/l (Aquatic Invertebrata)

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- 12.2 Persistence and degradability The product is easily biodegradable.
- 12.3 Bioaccumulative potential -3.15 log Pow
- **12.4 Mobility in soil** No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation

Chemicals must be disposed of in compliance with the respective national regulations.

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information	
 14.1 UN number or ID 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:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
 14.7 Maritime transport in bulk accordi IMO instruments 	ng to Not applicable.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

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

· Department issuing SDS: Dept. Compliance

Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative * * Data compared to the previous version altered.