

1024973 OEM WISI Liquid Glystantin G48 ReadyMix blau/grün

Revision date: 04/15/2024

Product code: 171

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1. Identification

Product identifier

1024973 OEM WISI Liquid Glystantin G48 ReadyMix blau/grün

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Heat transfer fluids

Details of the supplier of the safety data sheet

Company name:	Alphacool International GmbH	
	Tochtergesellschaft	
Street:	Marienberger Str. 1	
Place:	D-38122 Braunschweig	
Telephone:	+49 (0) 531 28874 - 0	Telefax: +49 (0) 531 28874 - 22
E-mail:	info@alphacool.com	
Contact person:	Thomas Schäfer	Telephone: 0531 28874-0
E-mail:	+49 (0) 531 28874 - 0	
Internet:	www.alphacool.com	
Responsible Department:	Forschung & Entwicklung	
Emergency phone number:	+49 (0) 6131 19240	

2. Hazard(s) identification

Classification of the chemical

Regulation (EC) No 1272/2008

Acute Tox. 4; H302
STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

ethanediol; ethylene glycol

Signal word: Warning

Pictograms:



Hazard statements

H302	Harmful if swallowed
H373	May cause damage to kidneys through prolonged or repeated exposure by skin contact

Precautionary statements

P501	Dispose of contents/container to hazardous or special waste collection point.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P330	Rinse mouth.
P314	Get medical advice/attention if you feel unwell.
P270	Do not eat, drink or smoke when using this product.
P260	Do not breathe mist/vapors/spray.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

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Pictograms:



Hazard statements

H302-H373

Hazards not otherwise classified

No information available.

3. Composition/information on ingredients

Mixtures

Chemical characterization

Ethandiol

Inhibitor, in Water

Relevant ingredients

CAS No	Components			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
107-21-1	ethanediol; ethylene glycol			25 - < 50 %
	203-473-3	603-027-00-1		
	Acute Tox. 4; H302			
19766-89-3	Sodium 2-ethylhexanoate			1 - <3 %
	243-283-8		01-2119490790-32	
	Repr. 2; H361fd			
1330-43-4	disodium tetraborate, anhydrous			0,2 - <0,3 %
	215-540-4	005-011-00-4		
	Repr. 1B; H360FD			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
107-21-1	203-473-3	ethanediol; ethylene glycol	25 - < 50 %
		dermal: LD50 = 10600 mg/kg; oral: ATE = 500 mg/kg	

4. First-aid measures

Description of first aid measures

General information

Take off immediately all contaminated clothing and wash it before reuse.

After inhalation

Provide fresh air. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

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After ingestion

Rinse mouth immediately and drink 1 glass of water. Medical treatment necessary. Gabe von 50 ml reinem Ethanol in trinkbarer Konzentration.

Most important symptoms and effects, both acute and delayed

Section 2: Hazard(s) Identification

SECTION 11: Toxicological information

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Antidot: Ethanol

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Water spray jet, Extinguishing powder, Foam

Specific hazards arising from the chemical

Gases/vapors, harmful

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Additional information

Suppress gases/vapors/mists with water spray jet.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes.

Use personal protection equipment.

Environmental precautions

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Methods and material for containment and cleaning up

For containment

Für große Mengen: Produkt abpumpen.

Bei Resten: Mit geeigneten flüssigkeitsbindenden Materialien aufnehmen. Das aufgenommene

Material vorschriftsmäßig entsorgen

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Suitable protective clothing: Overall

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Advice on protection against fire and explosion

No special measures are necessary.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place.

Hints on joint storage

No special measures are necessary.

Specific end use(s)

SECTION 1: Identification

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No	Substance	ppm	mg/m ³	Category	Origin
1330-43-4	Borates, tetra, sodium salts (Anhydrous)	-	1	TWA (8 h)	REL

Additional advice on limit values

107-21-1: Ethandiol

Hauteffekt (OEL (EU))

Der Stoff kann über die Haut aufgenommen werden.

STEL-Wert 104 mg/m³ ; 40 ppm (OEL (EU))

indikativ

TWA-Wert 52 mg/m³ ; 20 ppm (OEL (EU))

indikativ

Hauteffekt (TRGS 900 (DE)), Dampf und Aerosol

Der Stoff kann über die Haut aufgenommen werden.

AGW 26 mg/m³ ; 10 ppm (TRGS 900 (DE)), Dampf und Aerosol

Spitzenbegrenzung/Überschreitungsfaktor: 2

Wenn der Arbeitsplatzgrenzwert (AGW) und der Biologische Grenzwert (BGW)

eingehalten werden, ist kein Risiko einer Fruchtschädigung zu befürchten (s.

TRGS 900, Nummer 2.7).

Einstufung der Kurzzeitexposition: (TRGS 900 (DE)), Dampf und Aerosol

Kategorie I: Stoffe, bei denen die lokale Wirkung grenzwertbestimmend ist oder

atemwegssensibilisierende Stoffe

1330-43-4: Dinatriumtetraborat, wasserfrei

Einstufung der Kurzzeitexposition: (TRGS 900 (DE)), Einatembare Fraktion

Gemessen als: Bor (B)

Kategorie I: Stoffe, bei denen die lokale Wirkung grenzwertbestimmend ist oder

atemwegssensibilisierende Stoffe

AGW 0,5 mg/m³ (TRGS 900 (DE)), Einatembare Fraktion

Gemessen als: Bor (B)

Spitzenbegrenzung/Überschreitungsfaktor: 2

Wenn der Arbeitsplatzgrenzwert (AGW) und der Biologische Grenzwert (BGW)

eingehalten werden, ist kein Risiko einer Fruchtschädigung zu befürchten (s.

TRGS 900, Nummer 2.7).

PNEC

Kein Gefährdungspotenzial

DNEL

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Die Angaben beziehen sich auf die Leitsubstanz

Bestandteile mit DNEL

107-21-1: Ethandiol

Arbeiter: Langzeit-Exposition - lokale Effekte, Inhalation: 35 mg/m³

Arbeiter: Langzeit-Exposition - systemische Effekte, dermal: 106 mg/kg

Verbraucher: Langzeit-Exposition - lokale Effekte, Inhalation: 7 mg/m³

Verbraucher: Langzeit-Exposition - systemische Effekte, dermal: 53 mg/kg

Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid
Color:	greenish blue
Odor:	characteristic
Odour threshold:	not determined

Melting point/freezing point:	<-38 °C
Boiling point or initial boiling point and boiling range:	>100 °C
Flammability:	Non-flammable.

Lower explosion limits:	not applicable
Upper explosion limits:	not determined

Flash point:	not applicable	DIN EN ISO 2719
Auto-ignition temperature:	not applicable	DIN 51794
Decomposition temperature:	not determined	

pH-Value:	8	DIN 51369
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Viscosity / kinematic: (at 20 °C)	4 mm ² /s	DIN 51562
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Water solubility:	easily soluble
Solubility in other solvents	
not determined	
Dissolution rate:	not determined
Partition coefficient n-octanol/water:	not determined
Dispersion stability:	not determined
Vapor pressure:	0,02 hPa
(at 20 °C)	
Vapor pressure:	not determined
Density (at 15 °C):	1,07 g/cm ³ ISO 758
Relative density:	not determined
Bulk density:	not determined
Relative vapour density:	not determined
Particle characteristics:	not determined

Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Self-ignition temperature

Solid:

not determined

Gas:

not determined

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate:

not determined

Solvent separation test:

not determined

Solvent content:

not determined

Solid content:

not determined

Sublimation point:

not determined

Softening point:

not determined

Pour point:

not determined

Viscosity / dynamic:

not determined

Flow time:

not determined

10. Stability and reactivity

Reactivity

No hazardous reaction when handled and stored according to provisions.

Not corrosive to metals.

In contact with water do not emit flammable gases.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Conditions to avoid

none

Incompatible materials

Oxidizing agent, strong

Hazardous decomposition products

No known hazardous decomposition products.

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11. Toxicological information

Information on toxicological effects

Acute toxicity

Harmful if swallowed

ATEmix calculated

ATE (oral) 1042 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
107-21-1	ethanediol; ethylene glycol				
	oral	ATE mg/kg 500			
	dermal	LD50 mg/kg 10600	Rabbit	GESTIS	

Irritation and corrosivity

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

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

Sensitizing effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects 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.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on other hazards

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

12. Ecological information

Ecotoxicity

Fischtoxizität:

LC50 (96 h) > 100 mg/l, Fische

Aquatische Invertebraten:

EC50 (48 h) > 100 mg/l, Daphnien

Wasserpflanzen:

EC50 (72 h) > 100 mg/l, Algen

Persistence and degradability

Beurteilung Bioabbau und Elimination (H2O):

In geeigneten Kläranlagen erfolgt weitgehende Elimination aus dem Wasser durch biologischen

Abbau, Strippen, mechanisches Abscheiden.

Bioaccumulative potential

Bioakkumulationspotential:

Eine Anreicherung in Organismen ist nicht zu erwarten.

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Partition coefficient n-octanol/water

CAS No	Components	Log Pow
107-21-1	ethanediol; ethylene glycol	-1,36

Mobility in soil

Beurteilung Transport zwischen Umweltkompartimenten:

Flüchtigkeit: Von der Wasseroberfläche verdampft der Stoff nicht in die Atmosphäre

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The product has not been tested.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Das Produkt enthält keinen Stoff über den gesetzlichen Grenzwerten, der in die gemäß Artikel 59(1) der Verordnung (EG) Nr. 1907/2006 erstellte Liste aufgrund endokrinschädlicher Eigenschaften aufgenommen wurde oder der gemäß der Delegierten Verordnung (EU) 2017/2100 der Kommission oder der Verordnung (EU) 2018/605 der Kommission endokrinschädigende bzw. endokrinschädliche Eigenschaften aufweist.

Other adverse effects

Das Produkt enthält keine Stoffe, die in der Verordnung (EG) 1005/2009 über Stoffe, die zum Abbau der Ozonschicht führen, aufgeführt sind.

Further information

Sonstige ökotoxikologische Hinweise:

Das Produkt wurde nicht geprüft. Die Aussage ist von den Eigenschaften der Einzelkomponenten abgeleitet

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - used product

160114 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08); antifreeze fluids containing hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages must be recycled or disposed of. Handle contaminated packages in the same way as the substance itself.

14. Transport information

Land transport (ADR/RID)

UN number or ID number:

No dangerous good in sense of this transport regulation.

UN proper shipping name:

No dangerous good in sense of this transport regulation.

Transport hazard class(es):

No dangerous good in sense of this transport regulation.

Packing group:

No dangerous good in sense of this transport regulation.

Special precautions for user

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No dangerous good in sense of this transport regulation.

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15. Regulatory information

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

EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
disodium tetraborate, anhydrous

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30, Entry 75

Directive 2004/42/EC on VOC in paints and varnishes: 48 % (513,6 g/l)

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions: Observe employment restrictions for young people.

Water hazard class (D): 1 - slightly hazardous to water

Chemical Safety Assessment

For this mixture a chemical safety assessment has been carried out.

16. Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,9.

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Abbreviations and acronyms

Acute Tox: Acute toxicity
Repr: Reproductive toxicity
STOT RE: Specific target organ toxicity repeated or prolonged exposure
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
STOT RE 2; H373	

Relevant H statements (full text)

H302 Harmful if swallowed
H360FD May damage fertility; may damage the unborn child
H361fd Suspected of damaging fertility; suspected of damaging the unborn child
H373 May cause damage to kidneys through prolonged or repeated exposure by skin contact
H373 May cause damage to organs through prolonged or repeated exposure

Other data

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)