

EMULSION GUARD A

Version1.0

Revision Date 2018.10.28

Print Date 2018.10.29

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

EMULSION GUARD A

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

Use:

Binder for coating materials

1.3 Details of the supplier of the safety data sheet

ShenZhen UCI Magnet & More Co., Limited.

Address:Unit402, Building A, #25 Heng Nan road, GuShu, Xixiang street, BaoAn, Shenzhen, Guangdong

TEL.: +86- 755 – 27783116

URL: www.ucimagnetandmore.com

1.4 Emergency telephone number

In case of emergency: (86)119

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

No classification in accordance with the Regulation (EC) No. 1272/2008.

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 Appendix II (special regulations for the labeling and packaging of certain substances and mixtures)

Supplementary hazardous characteristics and labeling elements:

Contains:

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)

EUH208 May produce an allergic reaction.

The mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) is used as a preservative agent with bactericidal and fungicidal effect.

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

Type of product: Mixture

3.2 Mixtures

polyester polyurethane dispersion

ca. 38 % in water

Hazardous components

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)

Concentration [wt.-%]: < 0.0015

Index-No.: 613-167-00-5

CAS-No.: 55965-84-9

Classification (1272/2008/CE): Acute Tox. 3 Oral H301 Acute Tox. 3 Dermal H311 Acute Tox. 2 Inhalative H330 Skin Corr. 1B H314 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 Eye Dam. 1 H318

Specific threshold concentration (GHS):

Skin Corr. 1B	H314	>= 0.6 %
Skin Irrit. 2	H315	0.06 - < 0.6 %
Eye Irrit. 2	H319	0.06 - < 0.6 %
Skin Sens. 1	H317	>= 0.0015 %

M-factor (acute aquat. tox.): 10

M-factor (chron. aquat. tox.): 1

Labeling with EUH208 for 5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1) in accordance with Regulation (EC) No. 1272/2008, Appendix I, 3.4.3.3.2., Note 1, above 0.00015%.

The following substances are precautionary mentioned.

Acetone

Concentration [wt.-%]: < 1

Index-No.: 606-001-00-8

EC-No.: 200-662-2

REACH Registration Number: 01-2119471330-49

CAS-No.: 67-64-1

Classification (1272/2008/CE): Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336

neutralising agent, bound as a salt:

2-dimethylaminoethanol

Concentration [wt.-%]: ca. 1.4

Index-No.: 603-047-00-0

EC-No.: 203-542-8

REACH Registration Number: 01-2119492298-24

CAS-No.: 108-01-0

Classification (1272/2008/CE): Flam. Liq. 3 H226 Acute Tox. 3 Inhalative H331 Acute Tox. 4 Dermal H312 Acute Tox. 4 Oral H302 Skin Corr. 1B H314 Eye Dam. 1 H318 STOT SE 3 H335

Specific threshold concentration (GHS):

STOT SE 3	H335	>= 5 %
-----------	------	--------

Candidate List of Substances of Very High Concern for Authorisation

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

SECTION 4: First aid measures**4.1 Description of first aid measures****General advice:** Take off all contaminated clothing immediately.**If inhaled:** In case of irritation of the respiratory tract seek medical advice.

In case of skin contact: Wash off immediately with soap and plenty of water. Consult a doctor in the event of a skin reaction.

In case of eye contact: Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes). Contact an ophthalmologist.

If swallowed: DO NOT induce the patient to vomit, medical advice is required.

4.2 Most important symptoms and effects, both acute and delayed

Notes to physician: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Therapeutic measures: No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO₂), Foam, extinguishing powder, in cases of larger fires, water spray should be used.

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

5.3 Advice for fire-fighters

Firemen must wear self-contained breathing apparatus.

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Put on protective equipment (see section 8). Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away.

6.2 Environment related measures

Do not allow to escape into waterways, wastewater or soil.

6.3 Methods and material for containment and cleaning up

Take up with absorbent for chemicals or, if necessary with dry sand and store in closed containers.

6.4 Reference to other sections

For further disposal measures see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

When handling observe the usual precautionary measures for chemicals. Avoid contact with the skin and the eyes.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of workday. Keep working clothes separately. Change contaminated or soaked clothing.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Further information on the storage conditions which must be observed to preserve quality can be found in our product information sheet.

Storage class (TRGS 510) : 12: Non Combustible Liquids

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

No information on Exposure Limit Values necessary according to EC directive 2006/121/EG

The following airborne exposure limit is intended as a recommendation:

Substance	CAS-No.	Basis	Type	Value	Ceiling Limit Value	Remarks
Acetone	67-64-1	EH40 WEL	STEL	1,500 ppm 3,620 mg/m ³		
Acetone	67-64-1	EH40 WEL	TWA	500 ppm 1,210 mg/m ³		
Acetone	67-64-1	EU ELV	TWA	500 ppm 1,210 mg/m ³		Indicative

8.2 Exposure controls**Respiratory protection**

Respiratory protection required in insufficiently ventilated working areas and during spraying.

Hand protection

Suitable materials for safety gloves; EN 374:

Fluorinated rubber - FKM: thickness $\geq 0,4$ mm; breakthrough time ≥ 480 min.

Butyl rubber - IIR: thickness $\geq 0,5$ mm; breakthrough time ≥ 480 min.

Nitrile rubber - NBR: thickness $\geq 0,35$ mm; breakthrough time ≥ 480 min.

Recommendation: contaminated gloves should be disposed of.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance:	liquid
Colour:	white
Odour:	slight inherent odour
Odour Threshold:	not established

pH:	ca. 8.0 at 20 °C (Determined in a 10 % aqueous solution)	DIN 51369
Freezing temperature:	ca. 0 °C	ISO 3016
Boiling point/boiling range:	ca. 96 °C at 1,013 hPa	DIN 53171
Flash point:	No flash point up to initial boiling point.	DIN EN ISO 2719
Evaporation rate:	not established	
Flammability (solid, gas):	not applicable	
Burning number:	not applicable	
Vapour pressure:	ca. 30 hPa at 20 °C ca. 136 hPa at 50 °C ca. 171 hPa at 55 °C	EG A4 EG A4 EG A4
Vapour density:	not established	
Density:	ca. 1.07 g/cm ³ at 20 °C	DIN 51757
Miscibility with water:	miscible at 15 °C	
Surface tension:	not established	
Partition coefficient (n-octanol/water):	not established	
Auto-ignition temperature:	not applicable	
Ignition temperature:	ca. 420 °C	DIN 51794
Decomposition temperature:	not established	
Viscosity, dynamic:	ca. 3,000 mPa.s at 20 °C	DIN 53019
Explosive properties:	not established	
Dust explosion class:	not applicable	
Oxidising properties:	not established	

9.2 Other information

The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.

SECTION 10: Stability and reactivity

10.1 Reactivity

This information is not available.

10.2 Chemical stability

No thermal decomposition when stored and handled correctly.

10.3 Possibility of hazardous reactions

This information is not available.

10.4 Conditions to avoid

This information is not available.

10.5 Incompatible materials

This information is not available.

10.6 Hazardous decomposition products

On drying of the coating / hardening release of neutralising agent. (see section 3)

SECTION 11: Toxicological information

Please find below the data available to us:

11.1 Information on toxicological effects

Acute toxicity, oral

Polyurethane dispersion
LD50 rat: > 2,000 mg/kg
Method: OECD Test Guideline 423
Studies of a comparable product.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)

Assessment: Toxic if swallowed.
Suppliers' information

Acute toxicity, dermal

Polyurethane dispersion

Assessment: The substance or mixture has no acute dermal toxicity
Studies of a comparable product.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)

Assessment: Toxic in contact with skin.
Suppliers' information

Acute toxicity, inhalation

Polyurethane dispersion
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Method: OECD Test Guideline 403
Studies of a comparable product.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)

LC50 rat: 0.31 mg/l, 4 h
Test atmosphere: dust/mist

Primary skin irritation

Polyurethane dispersion
Species: rabbit
Result: slight irritant
Classification: No skin irritation
Method: OECD Test Guideline 404
Studies of a comparable product.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)

Result: Corrosive
Classification: Causes severe skin burns and eye damage (Skin Corr. 1B).

Primary mucosae irritation

Polyurethane dispersion
Species: rabbit
Result: slight irritant
Classification: No eye irritation
Method: OECD Test Guideline 405
Studies of a comparable product.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)

Since this substance is already classified "corrosive", the risk of serious damage to the eyes is implicit.

Sensitisation

Polyurethane dispersion
Skin sensitisation according to Buehler (epicutaneous test):
Species: Guinea pig
Result: negative
Classification: Does not cause skin sensitization.
Method: OECD Test Guideline 406
Studies of a comparable product.

Skin sensitization (local lymph node assay (LLNA)):
Species: Mouse
Result: negative
Classification: Does not cause skin sensitization.
Method: OECD Test Guideline 429
Studies of a comparable product.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
Skin sensitisation:
Species: Guinea pig
Result: positive
Classification: May cause sensitization by skin contact.

Subacute, subchronic and prolonged toxicity

Polyurethane dispersion
No data available.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
No data available.

Carcinogenicity

Polyurethane dispersion
No data available.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
Animal testing did not show any carcinogenic effects.

Reproductive toxicity/Fertility

Polyurethane dispersion
No data available.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
Available data show no indications for reproductive toxicity.

Reproductive toxicity/Teratogenicity

Polyurethane dispersion
No data available.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
Based on available data, the classification criteria are not met.

Genotoxicity in vitro

Polyurethane dispersion
Test type: Salmonella/microsome test (Ames test)
Metabolic activation: with/without
Result: negative
Method: OECD Test Guideline 471
Studies of a comparable product.

Test type: Chromosome aberration test in vitro
Metabolic activation: with/without
Result: negative
Method: OECD Test Guideline 473
Studies of a comparable product.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
Result: No indication of mutagenic effects.
Suppliers' information

Genotoxicity in vivo

Polyurethane dispersion
No data available.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
No data available.

STOT evaluation – one-time exposure

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

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
No data available.

STOT evaluation – repeated exposure

Polyurethane dispersion
no data available

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
No data available.

Aspiration toxicity

Polyurethane dispersion
No data available.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
No data available.

CMR Assessment

Polyurethane dispersion
Carcinogenicity: No data available.
Mutagenicity: Based on available data, the classification criteria are not met.
Teratogenicity: No data available.
Reproductive toxicity/Fertility: No data available.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
Carcinogenicity: Based on available data, the classification criteria are not met.
Mutagenicity: Based on available data, the classification criteria are not met.
Teratogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity/Fertility: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

Do not allow to escape into waterways, wastewater or soil.

Please find below the data available to us:

12.1 Toxicity**Acute Fish toxicity**

Polyurethane dispersion
LC50 > 100 mg/l
Species: Danio rerio (zebra fish)
Exposure duration: 96 h
Method: Directive 67/548/EEC, Annex V, C.1.
Studies of a comparable product.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
LC50 0.19 mg/l
Species: Oncorhynchus mykiss (rainbow trout)
Exposure duration: 96 h
Information refers to the main component.

Chronic Fish toxicity

Polyurethane dispersion
No data available.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
NOEC 0.05 mg/l
Species: *Oncorhynchus mykiss* (rainbow trout)
Exposure duration: 14 d

Acute toxicity for daphnia

Polyurethane dispersion
EC50 > 100 mg/l
Species: *Daphnia magna* (Water flea)
Exposure duration: 48 h
Method: Directive 67/548/EEC, Annex V, C.2.
Studies of a comparable product.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
EC50 0.16 mg/l
Species: *Daphnia magna* (Water flea)
Exposure duration: 48 h
Information refers to the main component.

Chronic toxicity to daphnia

Polyurethane dispersion
No data available.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
NOEC 0.1 mg/l
Species: *Daphnia magna* (Water flea)
Exposure duration: 21 d

Acute toxicity for algae

Polyurethane dispersion
No data available.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
EC50 27 µg/l
Species: *Pseudokirchneriella subcapitata* (green algae)
Exposure duration: 72 h
Method: OECD Test Guideline 201

Acute bacterial toxicity

Polyurethane dispersion
EC50 > 10,000 mg/l
Species: activated sludge
Method: OECD Test Guideline 209
Studies of a comparable product.

Ecotoxicology Assessment

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
Acute aquatic toxicity: Very toxic to aquatic life.
Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects.

M-Factor

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)
M-factor (acute aquat. tox.): 10
M-factor (chron. aquat. tox.): 1

12.2 Persistence and degradability**Biodegradability**

Polyurethane dispersion
Biodegradation: < 60 %, 28 d, i.e. not readily degradable
Method: OECD Test Guideline 301 D
Studies of a comparable product.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)

Biodegradation: < 50 %, 10 d, i.e. not readily degradable

12.3 Bioaccumulative potential

Partition coefficient (n-octanol/water)

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)

log Pow: 0.401

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Polyurethane dispersion

No data available.

5-chloro-2-methyl-3(2H)-isothiazolone / 2-methyl-3(2H)-isothiazolone (3:1)

No data available.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

13.1 Waste treatment methods

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

None disposal into waste water.

SECTION 14: Transport information

ADR/RID

14.1 UN number : Not dangerous goods
 14.2 UN proper shipping name : Not dangerous goods
 14.3 Transport hazard class(es) : Not dangerous goods
 14.4 Packing group : Not dangerous goods
 14.5 Environmental hazards : Not dangerous goods

ADN

14.1 UN number : Not dangerous goods
 14.2 UN proper shipping name : Not dangerous goods
 14.3 Transport hazard class(es) : Not dangerous goods
 14.4 Packing group : Not dangerous goods
 14.5 Environmental hazards : Not dangerous goods

IATA

14.1 UN number : Not dangerous goods
 14.2 UN proper shipping name : Not dangerous goods
 14.3 Transport hazard class(es) : Not dangerous goods
 14.4 Packing group : Not dangerous goods
 14.5 Environmental hazards : Not dangerous goods

IMDG

14.1 UN number	:	Not dangerous goods
14.2 UN proper shipping name	:	Not dangerous goods
14.3 Transport hazard class(es)	:	Not dangerous goods
14.4 Packing group	:	Not dangerous goods
14.5 Environmental hazards	:	Not dangerous goods

14.6 Special precautions for user

See section 6 - 8.

Additional information	:	Not dangerous cargo. Avoid heat above +50 °C. Avoid temperatures below +5 °C. Keep separated from foodstuffs.
------------------------	---	---

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances.
not applicable

Water contaminating class (Germany)

1 slightly water endangering
(in accordance with Annex 4 to the Directive on Water-Hazardous Substances)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance / mixture resp. its components.

SECTION 16: Other information**Full text of the hazard statements of the CLP classification (1272/2008/CE) referred to under sections 2, 3 and 10.**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.