

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date: 10.08.2022

Version number: 1.0

Revision: 10.08.2022

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

1.1 Product identifier:

Trade name: JoMix Green plus

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

No further relevant information available.

Application of the substance / the preparation: Fire extinguishing agent

1.3 Details of the supplier of the safety data sheet:

Manufacturer/Supplier:

Feuerschutz Jockel GmbH & Co.KG

Jägerwald 28 -30

42897 Remscheid

Fon +49 (0) 2191 9667-0

Fax +49 (0) 2191 9667-54

info@jockel.de

www.jockel.de

Further information obtainable from: Feuerschutz Jockel GmbH & Co.KG

1.4 Emergency telephone number:

Giftinformationszentrum-Nord / GIZ-Nord Poisons Centre

Telefon / Phone +49 (0) 551/19240

24h / 7d

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:

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



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

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:



GHS05

Signal word: Danger

Hazard statements:

H318 Causes serious eye damage.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

Additional information:

Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date: 10.08.2022

Version number: 1.0

Revision: 10.08.2022

Trade name: JoMix Green plus

(Contd. of page 1)

2.3 Other hazards:**Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients:****3.2 Mixtures:****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 112-34-5	2-(2-butoxyethoxy)ethanol	5-15%
EINECS: 203-961-6	⚠ Eye Irrit. 2, H319	
CAS: 107-21-1	ethanediol	5-10%
EINECS: 203-473-3	⚠ STOT RE 2, H373; ⚠ Acute Tox. 4, H302	
Reg.nr.: 01-2119456816-28		
CAS: 142-87-0	sodium decyl sulphate	0.2-3%
EINECS: 205-568-5	⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	
	Specific concentration limits: Eye Dam. 1; H318: $C \geq 20 \%$	
	Eye Irrit. 2; H319: $10 \% \leq C < 20 \%$	
CAS: 142-31-4	sodium octyl sulphate	2-10%
EINECS: 205-535-5	⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	
Reg.nr.: 01-2119966154-35	Specific concentration limits: Eye Dam. 1; H318: $C \geq 20 \%$	
	Eye Irrit. 2; H319: $10 \% \leq C < 20 \%$	
CAS: 90583-18-9	Sulfuric acid, mono-C12-14-alkyl esters, compds. with triethanolamine	2-10%
EINECS: 292-216-9	⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	
	Specific concentration limits: Eye Dam. 1; H318: $C \geq 20 \%$	
	Eye Irrit. 2; H319: $10 \% \leq C < 20 \%$	
CAS: 2634-33-5	1,2-benzisothiazol-3(2H)-one	<0.01%
EINECS: 220-120-9	⚠ Acute Tox. 2, H330; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	
	Specific concentration limit: Skin Sens. 1; H317: $C \geq 0.05 \%$	

Additional information: For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures:****4.1 Description of first aid measures:****General information:**

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

After inhalation: Supply fresh air or oxygen; call for doctor.**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

Call a doctor immediately.

After swallowing: Call a doctor immediately.**4.2 Most important symptoms and effects, both acute and delayed:**

No further relevant information available.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date: 10.08.2022

Version number: 1.0

Revision: 10.08.2022

Trade name: JoMix Green plus

(Contd. of page 2)

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:** Use fire extinguishing methods suitable to surrounding conditions.**5.2 Special hazards arising from the substance or mixture:** No further relevant information available.**5.3 Advice for firefighters:****Protective equipment:**

Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

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:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Remove persons from danger area.

Keep people at a distance and stay on the windward side.

6.2 Environmental precautions:

Prevent from spreading (e.g. by damming-in or oil barriers).

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

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:**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Use only in well ventilated areas.

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:**

Store in a cool location.

Store only in the original receptacle.

Information about storage in one common storage facility: Store away from foodstuffs.**Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

7.3 Specific end use(s): No further relevant information available.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date: 10.08.2022

Version number: 1.0

Revision: 10.08.2022

Trade name: JoMix Green plus

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection:

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace:

112-34-5 2-(2-butoxyethoxy)ethanol

OEL Short-term value: 101.2 mg/m³, 15 ppmLong-term value: 67.5 mg/m³, 10 ppm

IOELV

107-21-1 ethanediol

OEL Short-term value: 40 mg/m³, 104 ppmLong-term value: 52 mg/m³, 20 ppm

Sk, IOELV

8.2 Exposure controls:

Appropriate engineering controls: No further data; see item 7.

Individual protection measures, such as personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

Hand protection:

Protective gloves

Check the permeability prior to each renewed use of the glove.

Material of gloves:

Butyl rubber, BR

Rubber gloves

Recommended thickness of the material: ≥ 0.7 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection: Tightly sealed goggles

SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties:

General Information:

Colour:

Colourless

Odour:

Odourless

Odour threshold:

Not determined.

Melting point/freezing point:

Undetermined.

Boiling point or initial boiling point and boiling range:

Undetermined.

Flammability:

Not applicable.

Lower and upper explosion limit:**Lower:**

Not determined.

Upper:

Not determined.

Flash point:

Not applicable.

Decomposition temperature:

Not determined.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date: 10.08.2022

Version number: 1.0

Revision: 10.08.2022

Trade name: JoMix Green plus

(Contd. of page 4)

pH:	6-9
Viscosity:	
Kinematic viscosity:	Not determined.
Dynamic:	Not determined.
Solubility:	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value):	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density:	
Density at 20 °C:	1.06-1.1 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.

9.2 Other information:**Appearance:****Form:**

Fluid

Important information on protection of health and environment, and on safety.:**Auto-ignition temperature:**

Product is not selfigniting.

Explosive properties:

Product does not present an explosion hazard.

Change in condition:**Evaporation rate:**

Not determined.

Information with regard to physical hazard classes:

Explosives:	Void
Flammable gases:	Void
Aerosols:	Void
Oxidising gases:	Void
Gases under pressure:	Void
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.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date: 10.08.2022

Version number: 1.0

Revision: 10.08.2022

Trade name: JoMix Green plus

(Contd. of page 5)

10.6 Hazardous decomposition products: No dangerous decomposition products known.

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

Causes serious eye damage.

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:**

None of the ingredients is listed.

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.**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:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations:

13.1 Waste treatment methods:**Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Uncleaned packaging:**Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date: 10.08.2022

Version number: 1.0

Revision: 10.08.2022

Trade name: JoMix Green plus

(Contd. of page 6)

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 according to IMO instruments:	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: None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3, 55

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II:

None of the ingredients is listed.

REGULATION (EU) 2019/1148:

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)):

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS:

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors:

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors:

None of the ingredients is listed.

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 any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

(Contd. on page 8)

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



Printing date: 10.08.2022

Version number: 1.0

Revision: 10.08.2022

Trade name: JoMix Green plus

(Contd. of page 7)

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Department issuing SDS:

ADEEGO GmbH

Wildsteig 4A

D-42113 Wuppertal

Tel. +49 (0) 202 2575700

Fax. +49 (0) 202 2575701

Email: mail@adeego.de

www.adeego.de

© Copyright by ADEEGO GmbH

Contact: Dr. Axel Deeg

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

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

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 RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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