Revision: 23.01.2023

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

Printing date 23.01.2023

Version number 7 (replaces version 6)

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

· 1.1 Product identifier

· Trade name: ACTISTRONG

· Article number: c.p. 386

· UFI: 8SG5-N0CG-M00V-CAPH

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

· Life cycle stages

IS Use at industrial Sites

PW Widespread use by professional workers

C Consumer use

· Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· Product category PC35 Washing and cleaning products (including solvent based products)

· Process category

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC10 Roller application or brushing

· Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

· Application of the substance / the mixture Surface cleanser

· Uses advised against

Uses other than those identified are not recommended, including its use in combination with any other product.

- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

LINDHAUS SRL

Via Belgio, 22 Z.I. - 35127 Padova - Italy

Tel. +39 049 8700307 - Fax +39 049 8700605

www.lindhaus.it - vacuum@lindhaus.it

- · Further information obtainable from: vacuum@lindhaus.it
- · 1.4 Emergency telephone number: LINDHAUS SRL Tel. +39 049 8700307

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

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-determining components of labelling: sodium hydroxide

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Sulfuric acid, mono-C8-10-alkyl ester, sodium salts Alcohol ethoxylate

· Hazard statements

H314 Causes severe skin burns and eye damage.

· Precautionary statements

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

P102 Keep out of reach of children.

P280 Wear protective gloves / eye protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P405 Store locked up.

- · 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 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44-xxxx	2-(2-butoxyethoxy)ethanol • Eye Irrit. 2, H319	5-15%
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 Reg.nr.: 01-2119457892-27-xxxx 01-2119457892-27-0266	sodium hydroxide ↑ Met. Corr.1, H290; Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	2-5%
EC number: 939-332-4 Reg.nr.: 01-2119972287-26-0000 01-2119972287-26-xxxx	Sulfuric acid, mono-C8-10-alkyl ester, sodium salts Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315	
CAS: 61789-30-8 EINECS: 263-049-9	Fatty acids, coco, potassium salts Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-2%
CAS: 68439-46-3 EC number: 614-482-0	Alcohol ethoxylate Eye Dam. 1, H318; Acute Tox. 4, H302	0.1-1%

[·] 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:

Immediately remove any clothing soiled by the product.

Rescue workers must wear the protective equipment described in section 8.2 of this safety data sheet.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

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· After swallowing:

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot 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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NOx)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

- 5.3 Advice for firefighters
- · Protective equipment: Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- · 6.2 Environmental precautions: 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).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

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 Store in cool, dry place in tightly closed receptacles.
- · 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 only in the original receptacle.
- Information about storage in one common storage facility: Do not store together with acids.
- · Further information about storage conditions: Keep container tightly sealed.
- · 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:

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

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

IOELV

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1310-73-2	sodium hydroxide	(Contd. of pa
OEL Shor	t-term value: 2 mg/m³	
DNELs		
112-34-5 2	?-(2-butoxyethoxy)ethanol	
Oral	Long term, systemic effects	1.25 mg/kg (general population)
	Long term, systemic effects	5 mg/kg bw/day (general population)
Dermal	Long term, systemic effects	10 mg/kg (general population)
		20 mg/kg (professional workers)
	Long term, systemic effects	50 mg/kg bw/day (general population)
		83 mg/kg bw/day (professional workers)
Inhalative	Short term, local effects	60.7 mg/m3 (general population)
		101.2 mg/m3 (professional workers)
	Long term, local effects	40.5 mg/m3 (general population)
		67.5 mg/m3 (professional workers)
	Long term, systemic effects	34 mg/m3 (general population)
		67.5 mg/m3 (professional workers)
1310-73-2	sodium hydroxide	
Dermal	Short term, local effects	2 mg/kg (professional workers)
Inhalative	Short term, local effects	1 mg/m3 (general population)
		2 mg/m3 (professional workers)
	Long term, local effects	1 mg/m3 (general population)
		1 mg/m3 (professional workers)
Sulfuric a	cid, mono-C8-10-alkyl ester	, sodium salts
Oral	Long term, systemic effects	24 mg/kg bw/day (general population)
Dermal	Long term, systemic effects	2,440 mg/kg bw/day (general population)
		4,060 mg/kg bw/day (professional workers)
Inhalative	Long term, systemic effects	85 mg/m3 (general population)
		285 mg/m3 (professional workers)
PNECs		
112-34-5 2	?-(2-butoxyethoxy)ethanol	
PNEC 4.4	mg/kg (fresh water sedimen	nts)
0.4	4 mg/kg (marine water sedir	nents)
0.3	2 mg/kg (soil)	
PNEC 1.1	mg/l (freshwater)	
3.9	mg/l (intermittent releases)	
0.1	1 mg/l (marine water)	
200	0 mg/l (sewage treatment pla	ant)
Sulfuric a	cid, mono-C8-10-alkyl ester	, sodium salts
PNEC 1.2	5 mg/kg (fresh water sedime	ents)
0.1	25 mg/kg (marine water sed	iments)
0.1	85 mg/kg (soil)	
PNEC 0.1	12 mg/l (freshwater)	
0.0	1112 mg/l (marine water)	
	5 mg/l (sewage treatment pl	

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.

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- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

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: Not required.
- · Hand protection



Protective gloves

Only use EN 374 certified protective gloves against chemical agents.

Material of gloves

Neoprene gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.2 mm

- Penetration time of glove material Value for the permeation: Level 2/3
- · Eye/face protection



Tightly sealed goggles (EN 166)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

General Information

Physical state
Colour:
Odour:
Odourless
Odour threshold:
Melting point/freezing point:
Fluid
Colourless
Not determined.
Undetermined.

· Boiling point or initial boiling point and boiling

range > 100 °C • Flammability Not applicable.

· Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.

• Ignition temperature: Product is not selfigniting.

Decomposition temperature:
PH at 20 °C

Not determined.
12.0 - 13.0

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

·Solubility

water: Soluble.

• Partition coefficient n-octanol/water (log value) Not determined. • Vapour pressure: Not determined.

· Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

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· 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.

· Solvent content:

· VOC (EC) 7.0 - 9.0 %

· 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 Void · Pyrophoric solids · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable

Substances and mixtures, which emit flammable gases in contact with water

Oxidising liquids
Oxidising solids
Organic peroxides
Corrosive to metals
Void
Desensitised explosives

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 Reacts with acids.
- · 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 or thermal decomposition, gases and vapours may be given off that are potentially harmful to health.

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

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:

ATE (Acute Toxicity Estimates)

Oral LD50 19,437-43,243 mg/kg (rat)

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		(Contd. of page 6)
112-34-3	5 2-(2-	butoxyethoxy)ethanol
Oral	LD50	2,410 mg/kg (rat)
Dermal	LD50	2,764 mg/kg (rabbit)
1310-73	-2 sodi	um hydroxide
Oral	<i>LD50</i>	1,350 mg/kg (rat)
Dermal	<i>LD50</i>	1,350 mg/kg (rat)
Sulfuric	acid, 1	nono-C8-10-alkyl ester, sodium salts
Oral	LD50	1,200 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
61789-3	0-8 Fa	tty acids, coco, potassium salts
Oral	<i>LD50</i>	>2,000 mg/kg (rat)
68439-4	68439-46-3 Alcohol ethoxylate	
Oral	LD50	300,1-2,000 mg/kg (rat)
Dermal	<i>LD50</i>	>2,000 mg/kg (rabbit)

- · Skin corrosion/irritation Causes severe skin burns and eye damage.
- · 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

· Aquatic toxicity:		
112-34-5 2-(2-butoxyethoxy)ethanol		
EC50/48 h > 100 mg/kg (daphnia)		
EC50/96 h >100 mg/kg (algae)		
1310-73-2 sodium hydroxide		
EC50/48 h 40.4 mg/kg (daphnia)		
Sulfuric acid, mono-C8-10-alkyl est	sodium salts	
$EC50/48 \ h > 100 \ mg/kg \ (daphnia)$		
EC50/72 h 49.4 mg/kg (algae)		
61789-30-8 Fatty acids, coco, potass	m salts	
EC50/48 h >1 mg/kg (daphnia)		
EC50/72 h > 1 mg/kg (algae)		
68439-46-3 Alcohol ethoxylate		
EC50/48 h 10.1-100 mg/kg (daphnia		
EC50/72 h 10.1-100 mg/kg (algae)		

· 12.2 Persistence and degradability

The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.

· 12.3 Bioaccumulative potential Non significant accumulation in organisms

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- · 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 1 (German Regulation) (Self-assessment): slightly hazardous for water Must not reach sewage water or drainage ditch undiluted or unneutralised.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Do not discard the product or its packaging. Do not empty into drains. Recycle the product. When recycling is not possible, dispose through an authorized company in compliance with the local or national regulations. The assignment of the waste code is the user's responsibility, after determining the properties of the waste and the process generating it and after discussing it with the authorities responsible for disposal.

- · Uncleaned packaging:
- · Recommendation:

Empty the containers before disposal. Do not reuse the emptied containers. Send the empty containers to recycling or to an authorized company in compliance with local and national regulations.

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

14.1 UN number or ID number ADR, IMDG, IATA	UN1824
14.2 UN proper shipping name	
ADR	1824 SODIUM HYDROXIDE SOLUTION
IMDG, IATA	SODIUM HYDROXIDE SOLUTION
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR, IMDĞ, İATA	III
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
Segregation groups	(SGG18) Alkalis
Stowage Category	A

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	(Contd. of page
· Segregation Code	SG35 Stow "separated from" SGG1-acids
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	E
· IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Safety data sheet prepared in accordance with Regulation 1907/2006/EC Article 31 and Regulation (EU) No 878/2020 as subsequent amendments.

Regulation (EC) No 648/2004 on detergents / Labelling for contents anionic surfactants, soap, non-ionic surfactants, phosphonates

<5%

- · 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.

· 15.2 Chemical safety assessment:

No assessment of the chemical safety of the mixture has been carried out.

Where pertinent, we enclose to this document the exposure scenarios of the substances mentioned in section 3.2.

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

Full text of the hazard symbols (H) given in section 3

H290 May be corrosive to metals.

H302 Harmful if swallowed.

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H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

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

As required by Regulation 1272/2008/CE art. 9, the classification of this compound is based on the calculation method taken from the data of the single substances therein and from the experimental data of this compound where available (viewable in sections 9, 11 and 12 in this document).

Procedure used to classify the mixture

Skin Corr. 1A, H314 - According to experimental data (Extreme pH value)

Eye Dam. 1, H318 - Calculation method
Date of previous version: 15.05.2017
Version number of previous version: 6

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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)

VOC: Volatile Organic Compounds (USA, EU)

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

Met. Corr.1: Corrosive to metals - Category 1

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

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

* Data compared to the previous version altered.

ΙE