

SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 26. 11. 2012

Product code: VBSDOXXX99CLP2

Version: 5.0

Date of revision: 20. 12. 2018

Replaced version from: 05. 12. 2018

Page: 1 z 13

Trade Name: **KRYSTAL Sanan Klasik**

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

1.1 Product identifier

Trade Name

KRYSTAL Sanan Klasik

Mixture description

An aqueous solution of sodium hypochlorite and sodium hydroxide.

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

Identified uses

The disinfectant and cleaning agent for surfaces and objects, treatment of drinking water, maintenance of water in swimming pools, removing odors, discolouration and bleaching textiles.

Uses advised against

Only for identified uses.

1.3 Details of the supplier of the safety data sheet

CORMEN s.r.o.

Průmyslová 1420

593 01 Bystřice nad Pernštejnem

Czech Republic

telephone: +420 566 550 961

fax: +420 566 551 822

e-mail address for a competent person responsible for the SDS: info@cormen.cz

1.4 Emergency telephone number

112 (General emergency phone), 998 (fire brigade), 999 (ambulance service).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The mixture **is classified as dangerous** according to regulation 1272/2008/EC.

Classification according to 1272/2008/EC

Met. Corr. 1; H290

Skin Corr. 1B; H314

Eye Dam. 1; H318

Aquatic Acute 1; H400

Aquatic Chronic 2; H411

Full text of classifications and H-phrases: see section 16.

The most important adverse physicochemical, human health and environmental effects

May be corrosive to metals. Causes severe skin burns and eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

2.2 Label elements

hazard pictograms



signal word

Danger

SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 26. 11. 2012	Product code: VBSDOXXX99CLP2	Version: 5.0
Date of revision: 20. 12. 2018	Replaced version from: 05. 12. 2018	Page: 2 z 13
Trade Name: KRYSTAL Sanan Klasik		

<i>components of the mixture to be placed on the label</i>	Contains sodium hypochlorite and sodium hydroxide.
<i>hazard statements</i>	H290 - May be corrosive to metals. H314 - Causes severe skin burns and eye damage. H400 - Very toxic to aquatic life. H411 - Toxic to aquatic life with long lasting effects.
<i>precautionary statements</i>	P102 - Keep out of reach of children. P260 - Do not breathe mist/vapours/spray. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face 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. P310 - Immediately call a POISON CENTER/doctor. P390 - Absorb spillage to prevent material damage. P501 - Dispose of contents/container to in accordance with local regulations.
<i>supplemental hazard information</i>	EUH031 - Contact with acids liberates toxic gas. EUH206 - Warning! Do not use together with other products. May release dangerous gases (chlorine). Composition: ≥ 30% water, 5 - < 15% chlorine-based bleaching agents, < 5% sodium hydroxide. Protect from frost.

2.3 Other hazards

Mixture or its components are not classified as PBT or vPvB, not the date of issue of the safety data sheet kept on the candidate list for Annex XIV of the REACH Regulation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

3.2.1 Components of a mixture classified as hazardous

Chemical identity	CAS Number EC Number Index Number	Registration Number	Content (wt. %)	Classification 1272/2008/EC
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SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 26. 11. 2012

Product code: VBSDOXXX99CLP2

Version: 5.0

Date of revision: 20. 12. 2018

Replaced version from: 05. 12. 2018

Page: 3 z 13

Trade Name: **KRYSTAL Sanan Klasik**

Sodium hypochlorite*	7681-52-9 231-668-3 017-011-00-1	01-2119488154-34-XXXX	4.0 - 6.5	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M=10 M(Chronic)=1 EUH031
Sodium hydroxide**	1310-73-2 215-185-5 011-002-00-6	01-2119457892-27-XXXX	0.65 - 0.80	Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318

*) The substance has specific concentration limits: C \geq 5 %: EUH031.

**) The substance has specific concentration limits: C \geq 5 %: Skin Corr. 1A; H314, 2 % \leq C < 5 %: Skin Corr. 1B; H314, 0.5 % \leq C < 2 %: Skin Irrit. 2; H315, 0.5 % \leq C < 2 %: Eye Irrit. 2; H319.

SECTION 4: First aid measures

In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. An unconscious person never give anything.

4.1 Description of first aid measures

Inhalation

Breake the exposure, transfer the person to the fresh air. If symptoms persist, seek medical attention.

Skin contact

Remove contaminated clothing, shoes, and wash thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. Seek medical advice.

Eye contact

Rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. Immediately call in physician.

Ingestion

Rinse your mouth and drink afterwards plenty of water. Do not induce vomiting. Do not give milk or alcoholic beverages. Unconscious person never give anything by mouth. Seek medical help.

4.2 Most important symptoms and effects, both acute and delayed

Are not known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 26. 11. 2012

Product code: VBSDOXXX99CLP2

Version: 5.0

Date of revision: 20. 12. 2018

Replaced version from: 05. 12. 2018

Page: 4 z 13

Trade Name: **KRYSTAL Sanan Klasik**

Suitable extinguishing media

Small fire:

Carbon dioxide CO₂, dry extinguishing agent, sand or earth, foam.

Extensive fire:

Fragmented water streams (water mist), foam.

Extinguishing media which shall not be used for safety reasons

Solid streams of water may be ineffective.

5.2 Special hazards arising from the substance or mixture

Wear protective clothing covering the entire body, suitable gloves and goggles or face shield. In the event of a large fire, wear self-contained breathing apparatus.

In case of fires, hazardous combustion gases are formed: chlorine oxides, chlorine, hydrogen chloride sodium oxides and products of incomplete combustion.

5.3 Advice for firefighters

Stop further product leak if possible. Spilled product, which does not burn, cover with sand or foam. Move containers and barrels away from the fire to a safe place, if possible. Cool all affected containers with flooding quantities of water.

In case of fire, wear suitable respiratory protective equipment and fire-fighting suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes, use suitable protective equipment and clothing, see Section 8. Ensure adequate ventilation.

6.2 Environmental precautions

Do not allow to enter waters or soil. If this cannot be avoided, immediately inform the competent authorities (police and firefighters).

6.3 Methods and material for containment and cleaning up

According to the amount of spilled liquid, drain away the substance (large spillage) or in case of small spillage, absorb it with suitable absorbent (vermiculite, dry sand), put into labelled closed containers and dispose of them accordingly to Section 13. Flush residues with water and collect it for waste disposal.

If the packaging is damaged, move the contents to the new, undamaged packaging and label them again.

6.4 Reference to other sections

Protective equipment: see section 8. Dispose according to the section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide good ventilation to prevent the formation of vapor and aerosol. Avoid contact with skin and eyes. Do not use dirty clothes. After work, rinse thoroughly with warm water and soap. Use a protective cream.

7.2 Conditions for safe storage, including any incompatibilities

Store only in the original container. Replace the damaged packaging with a new one. Do not store together with acids. Protect from frost. Do not expose to heat and direct sunlight.

7.3 Specific end use(s)

SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 26. 11. 2012	Product code: VBSDOXXX99CLP2	Version: 5.0
Date of revision: 20. 12. 2018	Replaced version from: 05. 12. 2018	Page: 5 z 13

Trade Name: **KRYSTAL Sanan Klasik**

Krystal Sanan is a cleaning and disinfecting preparation containing chlorine, which reliably destroys bacteria, algae, lower fungi and viruses. Removes odors, discolours and bleaches fabrics. It is also used for the treatment of drinking water and for regular maintenance of swimming pool water. To clean and disinfect floors, furniture, kitchen utensils and hygiene, for bleaching, for algae disposal and regular maintenance of swimming pool water, for drinking water treatment, for surface disinfection in the food and agricultural industries. To increase the disinfecting effect, it is recommended to remove organic impurities from surfaces and objects.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Exposure limit value

EU

Chlorine:

Limit values: Eight hours: - mg/m³, - ppm; Short-term: 1.5 mg/m³, 0.5 ppm.

Czech republic

Chlorine:

PEL – 1 mg/m³, NPK-P - 2 mg/m³.

Note I - irritates mucous membranes (eyes, respiratory tract), resp. skin

Sodium hydroxide:

PEL – 1 mg/m³, NPK-P - 2 mg/m³.

Note I - irritates mucous membranes (eyes, respiratory tract), resp. skin

PEL - Permissible Exposure Limit, long term (8 hours)

NPK-P - Highest permissible concentration, short-term limit

8.1.2 Biological limit values

Not are determined in EU

8.1.3 DNEL and PNEC values

Sodium hypochlorite							CAS: 7681-52-9	
DNEL								
Area of use		Route of exposure		Effect		Exposure time		Value
Workers		Inhalation		Systemic effect		Long term		1.55 mg/m³
Workers		Inhalation		Systemic effect		Acute/short term		3.1 mg/m³
Workers		Inhalation		Local effect		Long term		1.55 mg/m³
Workers		Inhalation		Local effect		Acute/short term		3.1 mg/m³
General population		Inhalation		Systemic effect		Long term		1.55 mg/m³
General population		Inhalation		Systemic effect		Acute/short term		3.1 mg/m³
General population		Inhalation		Local effect		Long term		1.55 mg/m³
General population		Inhalation		Local effect		Acute/short term		3.1 mg/m³
General population		Oral		Systemic effect		Long term		0.26 mg/kg/day
PNEC								
Fresh water	Marine water	Intermittent releases	STP	Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators

SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 26. 11. 2012	Product code: VBSDOXXX99CLP2	Version: 5.0
Date of revision: 20. 12. 2018	Replaced version from: 05. 12. 2018	Page: 6 z 13

Trade Name: **KRYSTAL Sanan Klasik**

0.21 µg/l	0.042 µg/l	0.26 µg/l	4.69 mg/l	not given	not given	no effect	not given	11.1 mg/kg food
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Sodium hydroxide

CAS: 1310-73-2

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Local effect	Long term	1 mg/m ³
General population	Inhalation	Local effect	Long term	1 mg/m ³

PNEC - not given

8.2 Exposure controls

8.2.1 Exposure reduction (technical measures)

Use only in well-ventilated areas.

Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.

8.2.2 Individual protection measures, such as personal protective equipment

Respiratory protection

Not necessary in case of compliance concentration limits (if they were exceeded, use a respirator against organic vapor). In the event of an accident or fire use self-contained breathing apparatus..

Hand protection

Chemically resistant protective gloves. As there are no tests, it is not possible to recommend the glove material for this mixture. The selection of the glove material on consideration of the penetration time, permeability and degradation.

Eye/face protection

Protective glasses or face shield.

Skin protection

Wear suitable protective clothing and footwear.

Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream. Do not soiled protective equipment to wash, do not use solvents.

8.2.3 Environmental exposure reduction

Uncontrolled escape of substance/formulation into environment is to be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance (at 20 C) liquid, light yellow - light green

Odour characteristic, chlorine odour

Odour threshold not determined

pH (at 20 C) 12.922 (concentrated)

pH (at 20 C) 11.503 (1% solution)

Melting point/freezing point not determined

Boiling point (range) 100 C

Flash point > 100 C

Evaporation rate not determined

Flammability not determined

SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 26. 11. 2012

Product code: VBSDOXXX99CLP2

Version: 5.0

Date of revision: 20. 12. 2018

Replaced version from: 05. 12. 2018

Page: 7 z 13

Trade Name: **KRYSTAL Sanan Klasik**

Explosive limits	lower (% vol.)	not determined
	upper (% vol.)	not determined
Vapour pressure (at 20 C)		23 hPa
Vapour density		not determined
Relative density		1.0834 (water = 1)
Solubility in water (at 20 C)		miscible
Solubility in organic solvents:		not determined
Partition coefficient: n-octanol/water		not determined
Auto-ignition temperature		not determined
Decomposition temperature		not determined
Viscosity		not determined
Explosive properties		is not classified as explosive
Oxidising properties		is not classified as an oxidant

9.2 Other information

Organic solvents	0.0 %
Water	93.4 %
VOC	0.0 %
Content of non-volatile components	0.6 %
Alkalinity	1.1036 %
Surface tension	70.6 mN/m (10x diluted)

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture is stable under normal conditions of use.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Not known.

10.4 Conditions to avoid

Extremely high and low temperatures. Do not expose to direct sunlight.

10.5 Incompatible materials

Acid, production of chlorine under the action of acids. Reducing agents, peroxides, metals and amines.

10.6 Hazardous decomposition products

Burning releases chlorine oxides, chlorine, hydrogen chloride, sodium oxides and products of incomplete combustion.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 26. 11. 2012

Product code: VBSDOXXX99CLP2

Version: 5.0

Date of revision: 20. 12. 2018

Replaced version from: 05. 12. 2018

Page: 8 z 13

Trade Name: **KRYSTAL Sanan Klasik**

Acute toxicity

- *LD₅₀ oral, rat (mg/kg)*

Data for the mixture are not available

1 100 - sodium hypochlorite (as Cl₂, male)

- *LD₅₀ skin, rat or rabbit (mg/kg)*

Data for the mixture are not available

> 20 000 - sodium hypochlorite (rabbit)

- *LC₅₀ inhalation, rat (mg/l, 4 h)*

Data for the mixture are not available

10.5 - sodium hypochlorite (1 hrs., vapour, male)

Skin corrosion/irritation

Causes severe skin burns and eye damage.

classified as corrosive to skin - sodium hypochlorite irritating to the skin at a concentration of 0.95 % by weight - intact skin - mean erythema score = 2 after 24 hours, 1.7 after 72 hours, 0.7 after 8 days (irreversible for 1/6 animals, scale on the skin) and edema = 0.3 after 24 h, 0 after 72 h, 0 after 8 d (fully reversible in 72 h), broken skin - mean erythema score = 2.3 after 24 h, 2 after 72 h, 2.7 after 8 d (irreversible for 1/6 animals, skin necrosis) and edema = 2 after 24 h, 0.3 after 72 h, 0 after 8 d (fully reversible in 8 days), PDII = 2.7 - sodium hydroxide , Draize test)

corrosive skin at a concentration of 4.98% by weight - intact skin - mean erythema score = 4 after 24 h, 4 after 72 h, 4 after 8 d (irreversible, skin necrosis) and edema = 2 after 24 h, 1 after 72 h , 1 after 8 days (irreversible for 8 days), broken skin - mean erythema score = 4 after 24 h, 4 after 72 h, 4 after 8 d (irreversible, skin necrosis) and edema = 2 after 24 h, after 72 hours, 1 after 8 days (irreversible for 8 days), PDII = 5.6 - sodium hydroxide (rabbit, Draize test)

Serious eye damage/irritation

Causes severe eye damage.

severely damages eyes - sodium hypochlorite mean corneal opacity > 2, conjunctival redness > 2.5 - sodium hydroxide (2 wt.%, rabbit, 72 h, OECD 405).

Respiratory or skin sensitisation

Not containing these substances (or less than the classification limit)

not skin sensitising - sodium hypochlorite (guinea pig, OECD 406)

not skin sensitising - sodium hydroxide (human)

Carcinogenicity

Not containing these substances (or less than the classification limit)

LOAEL = 100 mg/kg/day - sodium hypochlorite (toxicity, rat, male, oral, OECD 453)

LOAEL = 114 mg/kg/day - sodium hypochlorite (toxicity, rat, female, orally, OECD 453)

NOAEL = 50 mg/kg/day - sodium hypochlorite (toxicity, rat, male, oral, OECD 453)

NOAEL = 57.2 mg/kg/day - sodium hypochlorite (toxicity, rat, female, oral, OECD 453)

SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 26. 11. 2012

Product code: VBSDOXXX99CLP2

Version: 5.0

Date of revision: 20. 12. 2018

Replaced version from: 05. 12. 2018

Page: 9 z 13

Trade Name: **KRYSTAL Sanan Klasik**

Germ cell mutagenicity

Not containing these substances (or less than the classification limit)

negative - sodium hypochlorite (OECD 471)

Reproductive toxicity

Not containing these substances (or less than the classification limit)

LOAEL > 5 mg/kg/day - sodium hypochlorite (rat, oral, generation P0, OECD 415)

NOAEL ≥ 5 mg/kg/day - sodium hypochlorite (rat, oral, generation P0, OECD 415)

LOAEL > 5 mg/kg/day - sodium hypochlorite (rat, oral, generation F1, OECD 415)

NOAEL ≥ 5 mg/kg/day - sodium hypochlorite (rat, oral, generation F1, OECD 415)

Specific target organ toxicity – single exposure

Not classified

Specific target organ toxicity – repeated exposure

Not classified

LOAEL = 100 mg/kg/day - sodium hypochlorite (rat, male, oral, OECD 453)

LOAEL = 114 mg/kg/day - sodium hypochlorite (rat, female, orally, OECD 453)

NOAEL = 50 mg/kg/day - sodium hypochlorite (rat, male, orally, OECD 453)

NOAEL = 57.2 mg/kg/day - sodium hypochlorite (rat, female, oral, OECD 453)

Aspiration hazard

Not classified

Other information

See section 2 and 4.

SECTION 12: Ecological information

12.1 Toxicity

Fish

Data for the mixture are not available

LC₅₀, 96 hrs, Oncorhynchus kisutch: 0.032 mg/l - sodium hypochlorite

LC₅₀, 96 hrs, Oncorhynchus gorbuscha: > 0.023 - <0.052 mg/l - sodium hypochlorite

LC₅₀, 96 hrs, Onchorhynchus tschawyscha: > 0.038 - <0.065 mg/l - sodium hypochlorite

LC₅₀, 96 hrs, Herring (Clupea herengus): 0.065 mg/l - sodium hypochlorite

NOEC, 28 d. Menidia peninsulae: 0.04 mg/l - sodium hypochlorite

LC₅₀, 48 hrs, Leuciscus idus: 189 mg/l - sodium hydroxide

Daphnia

Data for the mixture are not available

EC₅₀, 48 hrs, Daphnia Magna: 141 µg/l - sodium hypochlorite

NOEC, 48 hrs, Daphnia Magna: 50 µg/l - sodium hypochlorite

EC₅₀, 48 hrs, Ceriodaphnia sp.: 40.4 mg/l - sodium hydroxide

Algae

Data for the mixture are not available

EC₅₀, 72 hrs, Pseudokirchneriella subcapitata: 0.36 mg/l - sodium hypochlorite (growth rate)

NOEC, 72 hrs, Pseudokirchneriella subcapitata: 0.005 mg/l - sodium hypochlorite (growth rate)

SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 26. 11. 2012

Product code: VBSDOXXX99CLP2

Version: 5.0

Date of revision: 20. 12. 2018

Replaced version from: 05. 12. 2018

Page: 10 z 13

Trade Name: **KRYSTAL Sanan Klasik**

12.2 Persistence and degradability

Data for the mixture are not available

12.3 Bioaccumulative potential

Data for the mixture are not available

12.4 Mobility in soil

Data for the mixture are not available

12.5 Results of PBT and vPvB assessment

Mixture or its components are not classified as PBT or vPvB, not the date of issue of the safety data sheet kept on the candidate list for Annex XIV of the REACH Regulation.

12.6 Other adverse effects

Data for the mixture are not available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods of the substance or mixture and the contaminated packaging

Delete according to the applicable European and local regulations (eg. in a hazardous waste incinerator). Never remove flushing into sewer! Do not contaminate ponds or ditches with chemical or used container. Residual amounts and solutions to a licensed disposal company.

For classifying the waste and the removal of waste producer responsibility.

Possible waste code 20 01 29* - detergents containing dangerous substances

Physical/chemical properties that may affect waste treatment options

Corrosive to metals.

Special precautions recommended for waste management

None known.

Waste legislation

Directive 2008/98/EC

SECTION 14: Transport information

14.1 UN number

3266

14.2 UN proper shipping name

- ADR/RID/IMDG/IATA

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hypochlorite, Sodium hydroxide)

14.3 Transport hazard class(es)

8

14.4 Packing group

II

14.5 Environmental hazards

mark for environmentally hazardous substances

14.6 Special precautions for user

SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 26. 11. 2012

Product code: VBSDOXXX99CLP2

Version: 5.0

Date of revision: 20. 12. 2018

Replaced version from: 05. 12. 2018

Page: 11 z 13

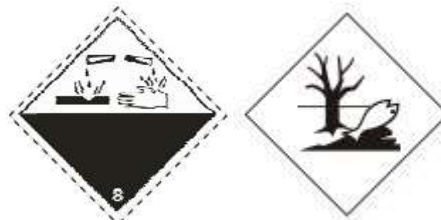
Trade Name: **KRYSTAL Sanan Klasik**

not given

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not available

Marking according to ADR



ADR/RID

- classification code	C5
- labels	8
- hazard identification code	80
- tunnel restriction code	E (ADR), - (RID)
- limited quantities	1 I
- excepted quantities	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- transport category	2

IMDG

- Emergency Schedules (EmS)	F-A/S-B
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SECTION 15: Regulatory information

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

Regulation No. 1907/2006/ES, REACH.

Regulation No. 1272/2008/ES, CLP.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Reason for alteration

Change in the classification of the mixture in section 2.

SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 26. 11. 2012

Product code: VBSDOXXX99CLP2

Version: 5.0

Date of revision: 20. 12. 2018

Replaced version from: 05. 12. 2018

Page: 12 z 13

Trade Name: **KRYSTAL Sanan Klasik**

Key or legend to abbreviations and acronyms used in the safety data sheet

Aquatic Acute 1	Hazardous to the aquatic environment, acute, cat. 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, cat. 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, cat. 2
Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2
Met. Corr. 1	Substance or mixture corrosive to metals, cat. 1
Skin Corr. 1A	Skin corrosion, cat. 1A
Skin Corr. 1B	Skin corrosion, cat. 1B
Skin Irrit. 2	Skin irritation, cat. 2
STOT SE 3	Specific target organ toxicity after single exposure, cat. 3
M	Multiplying factor
PBT	Persistent, bioaccumulative, toxic chemical
vPvB	Very persistent and very bioaccumulative chemical
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
CLP	regulation No. 1272/2008/EC
REACH	regulation No. 1907/2006/EC
ADR	Accord Dangereuses Route
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
IMDG	International Maritime Dangerous Goods
ICAO/IATA	International Air Transport Association
VOC	Volatile organic compound

Sources of key data used to compile the Safety Data Sheet

European legislation, chemical databases and tables, tests, registration dossier of compounds.

List of H- and P- phrases

EUH031	Contact with acids liberates toxic gas.
EUH206	Warning! Do not use together with other products. May release dangerous gases (chlorine).
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 26. 11. 2012

Product code: VBSDOXXX99CLP2

Version: 5.0

Date of revision: 20. 12. 2018

Replaced version from: 05. 12. 2018

Page: 13 z 13

Trade Name: **KRYSTAL Sanan Klasik**

P102	Keep out of reach of children.
P260	Do not breathe mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face 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.
P310	Immediately call a POISON CENTER/doctor.
P390	Absorb spillage to prevent material damage.
P501	Dispose of contents/container to in accordance with local national regulation.

Training advice

According to MSDS.

Relevant information for classification

Classification according to data from the manufacturer. The mixture is classified using calculation methods according to Regulation CLP and tests. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.

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