



SAFETY DATA SHEET

In accordance with Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Date of issuance: 04.07.2018	Issue: 03/2022
According to Regulation (EU) № 1907/2006 (REACH)	Supersedes issue: 02/2017

1. IDENTIFICATION OF THE MIXTURE AND THE COMPANY

1.1. Product identifier:

Commercial name: **SANIFORT tablets**

Unique Formula Identifier (UFI): NF30-00XC-N009-9PGX

1.2. Relevant identified uses of the mixture and uses advised against:

- General disinfection
- Disinfection of various water-resistant surfaces (floors, walls and ceilings, objects, apparatus, utensils, sanitary units, etc.) in health and medical institutions, in the public sector and households, in food production and trade facilities, in veterinary medicine, in animal breeding facilities.
- Disinfection of laboratory glassware;
- Disinfection of kitchen utensils and equipment;
- Disinfection of checkpoint barriers;
- Disinfection of hospital underwear, textiles, workwear and shoes (has a bleaching effect!);
- Disinfection of water in swimming pools

1.3. Company identification:

ZHIVAS Ltd, 36, Dondukov Blvd, 1000 Sofia, Bulgaria

Postal address: 14, Asen Jordanov Blvd., Sofia 1592

Telephone/Fax: + 359 2 981 78 23

E- mail: zhivas@techno-link.com,

Internet: www.zhivas.com

1.4. Emergency telephone :

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture:

The product is classified as hazardous in accordance with the Regulation (EU) 1272/2008 (CLP) (and subsequent amendments).

Hazard classes and hazard categories:

Acute Tox.4 (oral),	H302
Eye Irritation. 2,	H319
STOT SE3,	H335
Acute aquatic 1,	H400
Aquat.chron.1,	H410
EUH031	

2.2 Label elements

Hazard-determining components of labelling

Sodium dichlorisocyanurate dihydrate



Pictograms:



(GHS07)



(GHS09)



(GHS08)

Signal word: Warning

Hazard statements:

H302 - Harmful if swallowed

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

EUH031 - Contact with acids releases toxic gas

Precautionary statements:

P102 – Keep out of reach of children

P280 – Wear protective goggles

P261- Avoid breathing dust.

P273 – Avoid release to the environment

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

P301+P330+P312- IF SWALLOWED: Rinse mouth. If you feel unwell, call a POISON CENTER or doctor/physician.

2.3. Other hazards

- On the basis of the available data, it does not contain substances with PBT or vPvB properties in a percentage more than 0,1 %.

- Ecotoxicological information: The mixture does not contain components considered to have endocrine disrupting properties under REACH Regulation Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

- Toxicological information: The mixture does not contain components that are considered to have endocrine disrupting properties under REACH Regulation , Article 57(f) or Commission Delegated Regulation (EU) 2017/2100, or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.2. Mixtures

The preparation contains sodium dichloroisocyanurate dihydrate, substances facilitating effervescence, binders. After dissolution in water the available chlorine is min. 42 %

Name of component	Content (g/100g)	CAS №	EC №	Classification Regulation (EO) 1272/2008
Sodium dichlorisocyanurate dihydrate	80	51580-86-0	220-767-7	Acute Tox.4; H302 EUH031 Eye Irritation 2; H 319 STOT SE 3; H335 Aquatic chronic 1; H410 Aquatic acute 1; H400
Sodium carbonate	10	497-19-8	207-838-8	Eye Irritation 2; H319



Benzoic acid	5	65-85-0	200-618-2	Eye Damage 1; H318 STOT SE 3; H335
Adipic acid	5	124-04-9	204-673-3	Eye Damage 1; H318

For the wording of the listed hazard statements refer to section 16.

4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation:	Take the subject out into fresh air. Maintain normal body temperature. If symptoms persist call a physician.
Eye contact:	Rinse immediately with plenty of water also under the eyelids for 15 - 20 minutes consult with an ophthalmologist.
Skin contact:	Immediately take off the contaminated clothes. Wash the contaminated areas thoroughly with soap and water. Wash the working clothes before using them again.
Ingestion:	Rinse the mouth with plenty of water (if only the person is conscious). Do not induce vomiting. If symptoms persist call a physician.

4.2. Most important symptoms and effects, both acute and delayed

Principal routes of exposure

Oral:	Ingestion may cause irritation to mucous membranes.
Eye contact:	Severe irritation to eyes.
Skin contact:	Irritation to skin.
Ingestion:	Ingestion of this material may cause symptoms such as nausea, vomiting, gastric distress.
Inhalation:	Inhalation may cause irritation of upper respiratory ways.

4.3. Indication of any immediate medical attention and special treatment needed:	In case of eye contact and ingestion with symptoms of irritation, immediately call for medical help.
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5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media:	CO ₂ , dry powder.
5.2. Special hazards, arising from the preparation itself	In case of fire, toxic gases may be formed: Chlorine, CO, CO ₂ . In case of burning of the PE package the following toxic gases may be formed: CO, CO ₂ , light hydrocarbons.
5.3. Advice for firefighters	Standard protective equipment should be worn by fire-fighters. In the event of a large fire toxic fumes containing oxides of carbon may be formed, which would necessitate the use of a self contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

- 6.1. Personal precautions:** Take the precautions customary for handling chemicals. Wear protective clouds, gloves and goggles. Avoid direct contact with skin and eyes.
- 6.2. Environmental precautions:** Should not be released in the environment.
If the product contaminates the environment inform respective authorities and proceed according to the local legislation
- 6.3. Methods and material for containment and cleaning up:** Absorb by means of suitable inert materials (sand, sawdust or soil). The contaminated material should be collected mechanically for subsequent disposal. Wash with water and detergent.
- 6.4. Reference to other sections:** Refer to protective measures, listed in sections 7 and 8.

7. HANDLING AND STORAGE

- 7.1. Precautions for safe handling** Follow the operating instructions as specified on the label. Avoid direct contact with the eyes and skin.
Do not allow disposal of the preparation into the environment. Do not use near possible sources of ignition
- 7.2. Conditions for safe storage, including any incompatibilities** Store in well closed original package, in dry and well ventilated premises, at temperatures below 50°C. Do not expose to direct sunlight. Do not store with strong oxidizers and acids.
- 7.3. Specific end uses** For professional use only

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

- 8.1. Exposure limit values**
Limit values for some ingredients in the air of the work environment

Ingredient	CAS No	Limit values in workplace air
Free chlorine	7782-50-5	Bulgaria: 3 mg/m ³ Regulation 13, State Gazette ,issue.8/2004

8.2. Exposure controls

- General protective measures:** No further data, see item 7.
- Hygiene measures:** General and local ventilation is recommended in order to control limit values of free chlorine in the air of the workplace
- Respiratory protection:** In case of exceeding the limit values for work environment – use filter respiratory devices.
- Hand protection:** Use suitable protective gloves
- Eye protection:** Fully tight goggles
- Body protection:** Protective clothing. Wash off any dirt that gets onto skin with lots of soap and water.



9. CHEMICAL AND PHYSICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Granules or tablets
Color:	White
Odor:	Of chlorine
Odor threshold	No data
pH 1 % - solution	5.5 – 7.5 (20° C)
Boiling point	Not applicable
Flash point	Not applicable
Flammability	Not applicable
Explosive properties	Product is not explosive, but in contact with flammable materials may
Oxidizing properties	Oxidizer
Solubility in organic solvents	Well soluble in acetone, benzene, methyl and ethyl alcohol
Solubility in water	Fully soluble
Partition coefficient	Not applicable
Density 20 °C	No data
Vapor density	No data

9.2. Other information – None

10. STABILITY AND REACTIVITY

10.1. Reactivity	Reacts with strong oxidizer, acids and alkalis.
10.2. Chemical stability	Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	Not expected, if followed the instructions for use.
10.4. Conditions to avoid:	High temperatures over 40°C, sources of heat and direct sunlight
10.5. Incompatible materials:	Strong oxidizers and alkalis.
10.6. Hazardous decomposition products:	Toxic gases: chlorine.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

LD50 (oral, rat) > 1671 mg/kg bw
LD50 (dermal, rabbit) > 5000 mg/kg bw
LD50 (inhalation, rat) > 270 - < 1170 mg/m3

Skin irritation (rabbit):	Irritating
Eye irritation (rabbit):	Irritating
Skin sensitization (guinea pig):	Not sensitizer

Chronic toxicity

Chronic toxicity repeated doses (oral): NOAEL = 115 mg/kg/day
Chronic toxicity repeated doses (inhalation): NOAEL >31 mg/m3 air

11.2. Additional information



The mixture does not contain components considered to have endocrine disrupting properties under REACH , Article 57(e) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12. ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity:** Classified under the conventional method
Dangerous for the environment.
Very toxic to aquatic organisms.
- Acute toxicity for fishes**
96 h exposition , NOEC : 0.25 mg/ l
EC50 : 0.46 mg/ l
(DIN 384 12 –20)
- Toxicity for water organisms:**
Daphnia magna , 48 h EC 50 > 0.19 mg/l
48 h EC 50 > 0.28 mg/l
NOEC - - 0.062 mg/l
NOEC – the highest concentration, not causing significant reduction of growth under $p \leq 0.001$
Rainbow trout (Oncorhynchus mykiss), 96h, EC50 - 0.36mg/ l
Rainbow trout, 96h, EC50 - 0.13 mg/ l
- 12.2. Persistence and degradability:** Fast biodegradation in the environment to cyanurates / cyanuric acid and hypochloric acid. The cyanuric acid is precipitated to ammonia and CO₂
- 12.3. Bioaccumulative potential** No conditions for bioaccumulation.
- 12.4. Mobility in soil:** Upon penetration into the soil, it might be expected that underground waters will be reached; Do not allow access to water sources.
- 12.5. Results of PBT and vPvB assessment:** Unknown to product
- 12.6. Endocrine disrupting properties** The mixture does not contain components that are considered to have endocrine disrupting properties under REACH Regulation Article 57(e) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
- 12.7. Other adverse effects:** No other adverse environmental impacts are expected (such as ozone destruction, potential for photochemical ozone creation, potential for global warming).

13. DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods** Disposal should be in accordance with the local, state or national legislation. Contain, absorb and transfer to disposable container. Dilute with plenty of water. Clean thoroughly. Do not be disposed of together with household garbage. Do not discharge into drains or the environment; dispose to an authorized waste collection point.



13.2. Contaminated packaging:

European waste catalogue: 18 01 06* - chemicals consisting of or containing dangerous substances 15 01 10* - packing containing dangerous substances. Empty packaging should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

To be transported in closed transport vehicles, separated from food and drinks.

14.1 UN Number	UN 3077
14.2 UN proper shipping name n.o.s	- Environmentally hazardous substance, liquid, Sodium dichloroizocianurate dihydrat
14.3 Transport hazard class(es)	- 9
14.4 Packaging group	- III
14.5 Environmental hazards	-
Labeling in acc. with ADR, p.5.2.1.8	9
Labeling in acc. with RID, p.5.2.1.8	9
Labeling in acc. with IMDG, p.5.2.1.6.3	
Classification of dangerous products acc. P. 2.9.3. of IMDG	9 9; F-A, S-Q
14.6 Special precautions for user	Not applicable
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	- Not applicable



15. REGULATORY INFORMATION

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;

REGULATION (EU) 2020/878. amending the annex II of Regulation(EC) 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH);

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents;

DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations;



ESIS : European chemical Substances Information System;

COMMISSION DIRECTIVE 2001/60/EC of 7 August 2001 adapting to technical progress Directive 1999/45/EC of the European Parliament and of the Council concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations;

Council Directive 91/689/EEC of 12 December 1991 on hazardous waste;

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste;

DIRECTIVE 2008/112/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 amending Council Directives 76/768/EEC, 88/378/EEC, 1999/13/EC and Directives 2000/53/EC, 2002/96/EC and 2004/42/EC of the European Parliament and of the Council in order to adapt them to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

15.2. Chemical safety assessment

For this mixture a chemical safety assessment has not been carried out.

16. OTHER INFORMATION

The information given corresponds to the current state of our knowledge and experience of the product, and is not exhaustive. This applies to product, which conforms to the specification unless otherwise stated. In this case of combinations and mixtures one must make sure, that no new dangers can arise. In any case the user is not exempt from observing all legal, administrative and regulatory procedures, relating to the product, personal hygiene and protection of human welfare and the environment.

Section 1.1: Added Unique Formula Identifier (UFI)

SDS updated according to the requirements of Regulation (EU) 2020/878

Hazard statements (GHS):

H302 Harmful if swallowed H314

H319 Causes serious eye irritation

H335 May cause irritation if inhaled

H400 Very toxic to aquatic life

EUH031-Contact with acids liberates toxic gas

H410-Very toxic to aquatic life with long lasting effects