ZHIVAS Ltd.

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SAFETY DATA SHEET

Date of issuance: **04.07.2018**	Issue: **06/2018**
According to Regulation (EU) **2015/830**	Supersedes issue:**05/2015**

1. IDENTIFICATION OF THE MIXTURE AND THE COMPANY

1.1. Product identifier:

Commercial name**:**

SANIFORT effervescent tablets

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

- Disinfection of:
  - Surfaces, objects and equipment in hospitals and health care institutions, public and commercial establishments, food processing industry, veterinary clinics, farming and stockbreeding premises, transport vehicles.
  - Sanitary units (toilets, sinks, bath-tubs, lavatories, urinals etc.)
  - Laboratory glassware
  - White textiles – (linen, cloths, overalls, etc.)
  - Kitchen ware, cutlery,
  - Fruits and vegetables.
- Building up disinfection barriers in food processing industry and animal breeding facilities
- 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 :

Emergency Medical Institute Pirogov:+ 359 2 91 54 409 (Sofia, Bulgaria)

Latvian Poisons Information Centre: +371 67 04 24 73.(Riga, Latvia)

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture:

The product is classified in accordance with Regulation (EC) No. 1272/2008, Annex VI (CLP)

Acute Tox.4 (oral),	H302
EUH031	H225
Eye Irritation. 2,	H319
STOT SE3,	H335
Acute aquatic 1,	H400
Aquat.chron.1,	H410

2.2 Label elements

Pictograms:

(GHS07)  **(GHS09)**

Sygnal 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 **No**

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1. Substances

The preparation contains sodium dichloroisocyanurate dihydrate, available chlorine 55 -57%.

Name of component	Content (g/100g)	CAS №	EC №	Classification Regulation (EO) 1272/2008
Sodium dichloroizocianurate dihydrate	81.80	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	8.20	497-19-8	207-838-8	Eye Irritation 2; H319
Benzoic acid	5.00	65-85-0	200-618-2	Eye Damage 1; H318 STOT SE 3; H335
Adipic acide	5.00	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: **I**rritation 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.

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/m3 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 durt 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:	Round tablets, diameter 20 mm, weight 3.3 g
Color:	White
Odor:	Of chlorine
Odor threshold	No data
pH 1 % - solution	5.5 – 7.0 (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 cause ignition
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
Relative density 20 °C	Not applicable
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 product does not contain substances classified as carcinogenic, mutagenic and toxic for reproduction.
No evidence of neurotoxicity.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

Classified under the conventiional 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. Other adverse effects:

No data

13. DISPOASL 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. Should not be disposed of together with household garbage.
Do not discharge into drains or the environment; dispose to an authorized waste collection point.
European waste catalogue: 18 01 06* - chemicals consisting of or containing dangerous substances

13.2. Contaminated packaging:

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	- Environmentally hazardous substance, liquid, n.o.s 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) № 1907/2008 of the European Parliament concerning the Registration, Evaluation , Authorization and Restriction of Chemicals (REACH).
Commission Regulation (EU) 2015/830 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council on the Registration, Authorization and Restriction of Chemicals (REACH)
Regulation (EC) № 1272/2008 of the European Parliament on classification, labeling 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 mast 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.

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