

# SAFETY DATA SHEET HERO FRESH LAUNDRY POWDER

Date production version 1: 24.5.2021

Version 1

security sheet in accordance with content regulation \_ security list - Fig . RS Gazette 100/11

## CHAPTER 1. Identification of the chemical and data on the person who puts the chemical into circulation

### **SUBCHAPTER 1.1**

#### **Chemical identification**

Trade name: Hero Refreshing washing powder

Product number:

### **SUBCHAPTER 1.2.**

#### **Identified use of the chemical and uses that are not recommended**

Recommended use: laundry detergent at temperatures of 30-90 °C

Uses not recommended: no data

### **SUBCHAPTER 1 3**

#### **Supplier data**

Manufacturer and distributor:

**Hero Indjija**

Boška Buhe 14, 22320 Indija

Phone/Fax: 022/558-652

[office @ hero . co . Rs](mailto:office@hero.co.rs)

[www . hero . co . Rs](http://www.hero.co.rs)

### **SUBCHAPTER 1 4**

#### **Emergency phone number**

- Manufacturer: Hero, 022/558-652, 558-682 (from 7 a.m. to 3 p.m.),
- Center For control poisoning Military medical academy Number central offices +381 011/2661122, 2662755  
+381 011/360 8440 (24 hours available )

## SUBCHAPTER 2. Hazard identification

### **SUBCHAPTER 2.1 Classification chemicals**

**Classification in accordance with the Rulebook on the Classification, Packaging, Labeling and Advertising of Chemicals and Certain Products in accordance with the Globally Harmonized System for Classification and Labeling of the UN ("Official Gazette of the RS", no. 105/13, 52/17 and 21/19)**

Skin corrosion/irritation 2 N315

Severe eye damage/eye irritation 2 N319

Complete text listed N- mark listed in Chapter 16

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## **SUBCHAPTER 2.2 Marking elements**

Labeling in accordance with the Rulebook on the Classification, Packaging, Labeling and Advertising of Chemicals and Certain Products in accordance with the Globally Harmonized System for Classification and Labeling of the UN ("Official Gazette of RS", no. 105/13, 52/17 and 21/19)

Pictogram



GHS07

Word warnings : Attention

**Hazard notices : \_**

H315: Causes skin irritation

H319: Causes severe eye irritation

Notices of measures precautions :

P101 If medical advice is needed, take the product packaging or label with you

R102 Keep out of reach of children

P301+ P310 IF SWALLOWED: Call a POISON CONTROL CENTER/PHYSICIAN immediately.

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 IF IT GET IN THE EYES: Rinse carefully with water for several minutes. Remove contact lenses, if present and if possible. Continue rinsing.

R501 Dispose of contents/packaging in accordance with national regulations

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Contains 5-15 % anionic surfactant

Contains < 5% non-ionic surfactant ,

Contains <5% polycarboxylate, zeolite , oxygen-based bleach, soap

Contains smell

## **SUBCHAPTER 2.3. Other dangers**

The product does not contain components identified as PBT or vPvB

## CHAPTER 3. COMPOSITION/INFORMATION ON THE INGREDIENTS

### **SUBCHAPTER 3.1. Data on the ingredients of the substance :**

not relevant

### **SUBCHAPTER 3.2. Data on the ingredients of the mixture:**

Hazardous components

Chemical name	CAS number	EC number	INDEX/ REACH Registration Number	Classification <sup>2</sup>	Maseni share %
Sodium carbonate	497-19-8	207-838-8	011-005-00-2	Eye irritation 2 H319	<30
Alcohols, S12-14-ethoxylated, sulfates, sodium salt	68891-38-3	500-234-8 _	01-2119488639-16-0017	Skin irritation 2 H315 Eye patch 1 H318 Hydro.viv.sred.-chron.3 N412 Specific limit values: Eye damage 1 C $\geq$ 10 % Eye irritation 2 5 % $\leq$ C < 10 %	5-7
Sodium metasilicate	10213-79-3	229-912-9	014-010-00-8	Leather case 1B N314 Spec.tox.-JI 3 N335	<3
Reaction mass of	-	911-616-2	01-2119763801-	Ak.tox.4 H302	<2

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sodium 1-methoxy-1-oxohexadecane-2-sulfonate and sodium methyl-2-sulfooctadecanate			37-0000	Eye irritation 2 H319 Hydro.viv.sred.-chron.3 N412	
Sodium carbonate peroxyhydrate	15630-89-4	239-707-6	-	Oxid. solid 3 H272 Ak.tox.4 H302 Eye patch 1 H318 Specific limit values: Eye irritation 2 H319 10 =<C < 25 Eye patch 1 H318 25 =<C < 100	<3
Amides, C8-18 (all numbers) and C18-unsaturated., N,N- bis ( hydrohexethyl )	68155-07-7	931-329-6	01-2119490100-53-0022	Skin irritation 2 H315 Eye patch 1 H318 Live water sred.- chron . _ 2 N41 1	<1.5

<sup>2</sup> Classification in accordance with the Rulebook on the Classification, Packaging, Labeling and Advertising of Chemicals and Certain Products in accordance with the Globally Harmonized System for Classification and Labeling of the UN ("Official Gazette of the RS", no. 105/13, 52/17 and 21/19)

Competent text H- mark listed are in chapter 16

## CHAPTER 4 . FIRST AID MEASURES

### **SUBCHAPTER 4.1. Description of first aid measures**

General information:

Change clothes and shoes contaminated or soaked with the product.

In all cases of doubt, seek medical advice.

Eye contact:

In case of contact with the eyes, immediately rinse with plenty of water and ask for help medical assistance . Do not use any medication before consulting a doctor.

Skin contact:

In case of skin contact, immediately rinse with plenty of clean water, remove contaminated (soaked) clothing, if severe skin irritation occurs, consult a doctor.

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After inhalation:

Take the injured person to fresh air. Provide him with oxygen. Do not give mouth-to-mouth artificial respiration. Seek medical attention immediately.

Ingestion:

Rinse your mouth and throat with clean water. Do not induce vomiting, drink plenty of water. In case of nausea, consult a doctor.

## **SUBCHAPTER 4.2. The most significant symptoms and effects, acute and coated**

Not specified

## **SUBCHAPTER 4.3. Emergency medical assistance and special treatment**

Treat symptomatically

## CHAPTER 5 . FIRE EXTINGUISHING MEASURES

### **SUBCHAPTER 5.1. Funds for extinguishing fires**

Alcohol-resistant foam, water spray, CO<sub>2</sub>, extinguishing powder.

**Unsuitable extinguishing media fire :**

Not specified.

### **SUBCHAPTER 5.2. Special hazards that may arise from substances and mixtures :**

Fire should be extinguished by a trained person (firefighter). In case of fire or increased temperature, there may be an increase in pressure and explosion of the container.

Take regular measures against fire, no special fire protection is required.

The product is not flammable.

### **SUBCHAPTER 5.3. Advice for firefighters:**

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## CHAPTER 6 . MEASURES IN CASE OF AN ACCIDENT

### **SUBCHAPTER 6.1. Personal precautions, protective equipment and procedures in**

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## **in the event of an accident:**

Personal precautions:

In accordance with chapter 8 of this safety data sheet relating to

Information for personal protection. Provide adequate ventilation. Do not inhale fumes. Avoid contact with skin, eyes and clothing. There is a risk of slipping in case of leakage or spillage of the product.

## **SUBCHAPTER 6.2. Precautions related to the environment:**

Prevent spillage into waterways, soil and sewerage: dispose of in a place regulated by law for waste disposal

## **SUBCHAPTER 6.3. Measures to be taken and material for prevention**

### **Extensions and rehabilitation:**

In case of product spillage, wash the affected area with plenty of water.

## **SUBCHAPTER 6.4. Reference to other chapters:**

Use of personal protective equipment see chapter 8

Waste disposal see chapter 13

## CHAPTER 7 . HANDLING AND STORAGE

### **SUBCHAPTER 7.1. Precautions for safe handling**

Read the label carefully.

Provide sufficiently good ventilation of the space.

Avoid contact with skin and eyes. Use skin protection cream.

Wash your hands after using the product.

Do not eat, drink or smoke in the work area. Remove contaminated clothing before entering the eating area.

### **SUBCHAPTER 7.2. Conditions for safe storage, including incompatibility:**

Store in well-closed original packaging in a cool place. Keep away from food, beverages and animal feed. Store in a dark and cool place, out of the reach of children, in the original packaging.

Incompatibilities: no data

### **SUBCHAPTER 7.3. Special ways of use:**

No data

## CHAPTER 8 . Exposure control and personal protection

### **SUBCHAPTER 8.1, Exposure control parameters:**

Limitation of exposure:

DNEL derived no-effect doses

Name	CAS	type	Type of	Duration of	value
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	number		exposure	engagement	
Alcohols, S12-14-ethoxylated, sulfates, sodium salt	68891-38-3	Worker	dermally	Long-term ( systemic effects )	2750 mg/kg body weight/day
		Worker	inhalation	Long-term ( systemic effects )	175 mg/m3
		consumer	orally	Long-term ( systemic effects )	15 mg/kg body weight/day
		consumer	dermally	Long-term ( systemic effects )	1650 mg/kg body weight/day
		consumer	inhalation	Long-term ( systemic effects )	52 mg/m3
Amides, C8-18 (all numbers) and C18-unsaturated., N,N-bis ( hydrohexethyl )	68155-07-7	Worker	dermally	Long-term ( systemic effects )	4.16 mg/kg body weight /day
		Worker	inhalation	Long-term ( systemic effects )	73.4 mg / m3 / day
		consumer	dermally	Long-term ( systemic effects )	2.5 mg/kg body weight / day
		consumer	dermally	Long-term ( systemic effects )	0.056 mg/cm2
		consumer	inhalation	Long-term ( systemic effects )	21.73 mg / m3 / day
		consumer	orally	Long-term ( systemic effects )	6.5 mg/kg body weight / day

PNEC Anticipated concentration without effect

Type of exposure	Value Alcohols, S12-14-ethoxylated, sulfates, sodium salt CAS 68891-38-3	Value Amides, C8-18 (all numbers) and C18-unsatd., N,N-bis (hydrohexethyl) CAS 68155-07-7
Sweet water	0.24 mg/l	0.007 mg/l

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Sea water	0.024 mg/l	0.00 0 7 mg / l
Sediments (Freshwater)	0.917 mg/kg	0.0424 mg/kg
Sediments ( sea water)	0.092 mg/kg	-
Microorganisms in wastewater treatment plants (STP)	10000 mg/l	830 mg/l

## **SUBCHAPTER 8.2. Exposure control and personal protection:**

Eye/face protection:

They are not necessary for regular use of the product,

Skin protection:

Hand skin:

Impermeable gloves, resistant to chemicals

After each wash, wash your hands in clean water, people with sensitive or damaged skin should strictly follow the instructions for use and avoid prolonged contact with the washing solution.

Body skin:

Work clothes

Respiratory protection:

They are not necessary for regular use of the product.

Thermal hazard protection:

No data

## CHAPTER 9 . Physical and chemical properties

### **SUBCHAPTER 9.1.**

#### **Data on the basic physical and chemical properties of the chemical**

- a) Appearance and color of the chemical as it is marketed: Powder
- b) Smell: Pleasant smell
- c) Threshold there is no smell determined
- g) pH : no data
- d) Melting/freezing point No data
- f) Initial boiling point and boiling range : No data.



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e) Flash point :	No data
h) evaporation rate	No data
z) Stickiness (solid, gaseous) :	No data.
i) Upper/lower limit of flammability or explosiveness :	No data.
j) Steam pressure :	No data
k) Vapor density:	No data
l) Relative density:	No data
l) Solubility :	Soluble in water
m) Partition coefficient in the n -octanol/water system :	No data.
n) Auto-ignition temperature :	No data
nj) Viscosity:	No data
p) Explosive Properties :	None data
r) Oxidizing properties :	No data

## **SUBCHAPTER 9.2. Other data**

Miscibility : not available

Conductivity : no available

Solubility in oil : no available

Oxidoreductive potential : it is not available

## CHAPTER 10 . REACTIVITY AND STABILITY

### **SUBCHAPTER 10.1. Reactivity**

Stable under recommended transport and storage conditions

### **SUBCHAPTER 10.2. Chemical stability**

Stable under regular conditions of storage and use

### **SUBCHAPTER 10.3. Possibility of dangerous reactions**

No data

### **SUBCHAPTER 10.4. Conditions to avoid**

No data

### **SUBCHAPTER 10.5. Incompatible materials**

No data

### **SUBCHAPTER 10.6. Hazardous decomposition products**

No data

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## CHAPTER 11 . TOXICOLOGICAL DATA

### **SUBCHAPTER 11.1. Data on toxic effects**

#### a) Acute toxicity

\*\*Alcohols, S12-14-ethoxylated, sulfates, sodium salt CAS 68891-38-3

Oral LD50 >8000 mg/kg, rat

Dermal LD50 >4000 mg/kg, rat

\*\*Reaction mass of sodium 1-methoxy-1-oxohexadecane-2-sulfonate and sodium methyl-2-sulfooctadecanate E C  
911-616-2

Oral acute toxicity rat LD50, female: > 300 - <2,000 mg/kg

Method: OECD Test Guideline 423

Acute dermal toxicity: LD50 Dermal rat, female: > 2,000 mg/kg

Method: OECD Test Guideline 402

\*\*Sodium metasilicate CAS 10213-79-3

LD50 Oral - Rat - 847 mg/kg

\*\*Sodium carbonate CAS 497-19-8

LD50 Oral - rat – 4090 mg/kg

\*\*Sodium carbonate peroxyhydrate CAS 15630-89-4

Oral LD50 1034 mg/kg, rat

Dermal LD50 >2000 mg/kg, rat

#### b) Skin corrosion/irritation

criteria for classification are not met

#### v) Severe eye damage/eye irritation:

Leads to heavy damage eye

#### g) Sensitization of respiratory organs or skin:

criteria for classification are not met

#### d) Mutagenicity of germ cells

criteria for classification are not met

#### f) Carcinogenicity:

criteria for classification are not met

#### e) Reproductive toxicity

criteria for classification are not met

#### h) Specific toxicity for the target organ - single exposure

criteria for classification are not met

#### z) Specific toxicity for the target organ - repeated exposure

criteria for classification are not met

#### i) Aspiration hazard

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criteria for classification are not met

\*data taken from the ECHA ( European Chemicals agency) website

## CHAPTER 12. ECOTOXICOLOGICAL DATA

### **SUBCHAPTER 12.1. Toxicity**

\*\*Alcohols, S12-14-ethoxylated, sulfates, sodium salt CAS 68891-38-3

Fish

LC50 7.1 mg/l 96 h Brachidanio Rerio OECD 203

Aquatic invertebrates

EC50 7.4 mg/l (AI) 48 h Daphnia magna OECD 202

Algae

EC50 27 mg/l (AI) 72 h - Scenedesmus OECD 201

NOEC 0.955 mg/l (AI) Subspicatus 72 h OECD 201

Bacteria

EC50 > 10000 mg/l (AI) 16 h Putida DIN 38412/8

EC10 > 10000 mg/l (AI) 4 p.m Pseudomonas DIN 38412/8

Fish, chronic toxicity

NOEC: 1 mg / l 45d Pimephales Promelas - fresh water OECD 203 = OECD 210, 215

EC10: 0.98 mg / l 45d Pimephales Promelas - fresh water OECD 203 = OECD 210, 215

Aquatic invertebrates, chronic toxicity

NOEC : 0.27 mg/l 21d Daphnia magna OECD 211

\*\*Reaction mass of sodium 1-methoxy-1-oxohexadecane-2-sulfonate and sodium methyl-2-sulfooctadecanate EC 911-616-2

Fish : LC50: 1.5 mg/l OECD 203

Aquatic invertebrates: EC50 (Daphnia): 1.24 mg / l OECD 202

Algae : EC50: 10 mg/l OECD 201

\*\*Sodium carbonate CAS 497-19-8

Fish LC50 300 mg/l Lepomis macrochirus , 96 h (IUCLID)

Aquatic invertebrates

EC50 265 mg/l Daphnia magna (Water flea) , 48 h (IUCLID)

\*\*Sodium carbonate peroxyhydrate CAS 15630-89-4

Fish LC50 - Pimephales promelas (fathead minnow) - 70.7 mg/l - 96 h

Aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 4.9 mg/l - 48 h

\*\*Amides, C8-18 (all numbers) and C18-unsat., N,N-bis(hydrohexethyl) CAS 68155-07-7

Fish

(Oncorhynchus mikiss): LC50 (96h) = 2.4 mg/l fresh water

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(Danio rerio): LC50 (96h) = 4.9 mg/l seawater

NOEC 0.32 mg / l / 28 days (OECD 204)

Aquatic invertebrates

(Daphnia magna): EC50 (48h) = 3.2 mg/l fresh water

(Daphnia magna): EC50 (24h) = 3.3 mg/l fresh water

NOEC 0.07 mg / l / 21 days (OECD 211)

Algae

(Desmodesmus subspicatus): ErC50 (72 h) = 3.9 mg/l fresh water

NOEC 2 mg / l / 72 h (EU EK C.3)

Bacteria

(Pseudomonas Putida): EC10 (72 h) = 0.83 g / l fresh water

## **SUBCHAPTER 12.2. Persistence and degradability**

Surfactant fulfills criteria complete aerobic biodegradability given in the regulations on detergents ( „ Official gaznik RS", no . 25/15 ). the data which one this confirm will be available authorities authorities and deliver se on the their own a request or on the a request manufacturer detergents

\*\*Alcohols, S12-14-ethoxylated, sulfates, sodium salt CAS 68891-38-3

75.7 % in 28 days OECD 301B, rapidly biodegradable

\*\*Amides, C8-18 (all numbers) and C18-unsatd., N,N-bis(hydrohexethyl) CAS 68155-07-7

77% in 28 days OECD 301 F

## **SUBCHAPTER 12.3. Bioaccumulation potential**

does not have data

## **SUBCHAPTER 12.4. Mobility in land**

does not have data

## **SUBCHAPTER 12.5. Results of PBT i vPvB**

The product does not contain components identified as PBT or vPvB

## **SUBCHAPTER 12.6. Other adverse effects**

does not have data

## CHAPTER 13. DISPOSAL

### **SUBCHAPTER 13.1. Waste treatment methods**

Waste disposal:

Removal must be in accordance with the Law on Waste Management ("Official Gazette of RS", number 36/09 and 88/10, 14/16 , 95/18 ).

Unused remaining product does not constitute hazardous waste and should be treated in accordance with positive waste disposal regulations.

Used packaging and packaging is municipal packaging waste and should be treated in accordance with the Law on Packaging and Packaging Waste ("Official Gazette of RS", number 36/09). Packaging for recycling - non-returnable bottle.

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Before disposal or recycling, empty the packaging and rinse with water.

## CHAPTER 14 . DATA ON TRANSPORTATION

### **SUBCHAPTER 14.1. UN number**

does not have

### **SUBCHAPTER 14.2. UN name for cargo in transport**

does not have

### **SUBCHAPTER 14.3. Transport hazard class**

does not have

### **SUBCHAPTER 14.4. Packaging group**

does not have

### **SUBCHAPTER 14.5. Danger to the environment**

does not have

### **SUBCHAPTER 14.6. Special precautions for the user**

no data

### **SUBCHAPTER 14.7. Transport in bulk**

no data

## CHAPTER 15 . REGULATORY DATA

### **SUBCHAPTER 15.1. Safety, Health and Environmental Regulations**

Law on Chemicals " Official Gazette of the RS no . 36/09, 88/10, 92/11 , 93/12 and 25/15

Rulebook on the content of the " Official Gazette of the RS " Safety Bulletin no . 100/11

Rulebook on the list of classified substances " Official Gazette of RS " no . 22/20

Maximum permissible concentration of harmful gases, vapors and aerosols in the atmosphere of work rooms and workplaces SRPS Z. BO.001/1991 and SRPS Z BO.001/1; in 2007

Rulebook on detergents ( , , Official RS Gazette No. \_ \_ 25/15 )

Surfactant fulfills criterion complete aerobic biodegradability given in the Rulebook on detergents ( , , Official gaznik RS", no . 25/15 ). the data which one this confirm will be available authorities authorities and deliver se on the their own a request or on the a request manufacturer detergents

### **SUBCHAPTER 15.2. Chemical safety assessments:**

Pen assessment chemical safety it's not conducted

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## CHAPTER 16. ON PERMANENT DATA

Changes and additions:

With this latest edition of the Safety Data Sheet, all previous editions are no longer valid.

List of Abbreviations and Acronyms:

**CAS** Chemical Abstract Service - No chemical compounds and some mixture

**EC European commission number** Identification Number substances in the EU

**PBT** Persistent , bioaccumulative and toxic

**vPvB** Very much so persistent and very bioaccumulative

**LC50** Lethal Concentration - Lethal concentration , concentration chemicals which kills 50% tested population

Used the data For product are from literature

### **Literature:**

Safety data sheets for components

ECHA (European Chemicals agency) website

List security notices \_ from chapters 2 and 3

H- marks

H272 May promote fire, oxidizing agent

H302: Harmful if swallowed

H314: Causes severe skin burns and eye damage

H315: Causes skin irritation

H318: Causes serious eye damage

H319: Causes severe eye irritation

H335 : Yes Yes challenges irritation respiratory organ

H411: Toxic to a living world in water with long-lasting consequences

H4 1 2 Harmful to aquatic life with long-lasting effects

*Information in Security list are based on the basis ours current ones knowledge and subject are with changes , yes Yes not represent For all specific characteristics products and not determine there were what kind of legally valid contractual relationship*