

**1 Identification****1.1 Product identifier**Trade name: **F202 ZINC PLUS**

Article number: 516

Application of the substance / the mixture Surface protection

**1.3 Details of the supplier of the safety data sheet**

Manufacturer/Supplier:

H.B. BODY S.A

B' ENTRANCE BLOCK 50 DA9 &amp; MB6 Str

THESSALONIKI INDUSTRIAL AREA

57.022, SINDOS

THESSALONIKI,GREECE

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Fax: +30 2310 790 033

email: hbbody@hbbody.com

Information department:

HB BODY S.A.

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Ph: +30 2310 790 000

Fax: +30 2310 790 033

www.hbbody.com

email: hbbody@hbbody.com

**1.4 Emergency telephone number:** CHEMTRECK : 800-494-9300**2 Hazard(s) identification****2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008



GHS02 Flame

Flammable Liquids 3

H226 Flammable liquid and vapor.



GHS08 Health hazard

Carcinogenicity 1B

H350 May cause cancer. Route of exposure: Inhalation.

Toxic to Reproduction 2

H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure 1

H372 Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

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· **2.2 Label elements**

- Labelling according to Regulation (EC) No 1272/2008  
The product is classified and labeled according to the CLP regulation.
- Hazard pictograms



GHS02 GHS07 GHS08

- Signal word Danger
- Hazard-determining components of labeling:  
styrene  
titanium dioxide
- Hazard statements  
H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H350 May cause cancer. Route of exposure: Inhalation.  
H361 Suspected of damaging fertility or the unborn child.  
H372 Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

· Precautionary statements

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P314 Get medical advice/attention if you feel unwell.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
- NFPA ratings (scale 0 - 4)



Health = 2  
Fire = 3  
Reactivity = 0

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· HMIS-ratings (scale 0 - 4)

HEALTH	*2	Health = *2
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

· **2.3 Other hazards**

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

\* **3 Composition/information on ingredients**

· **3.2 Chemical characterization: Mixtures**

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 471-34-1 EINECS: 207-439-9 RTECS: EV 9580000	calcium carbonate	15-<20%
CAS: 100-42-5 EINECS: 202-851-5 Index number: 601-026-00-0 RTECS: WL 3675000	styrene ⚠ Flammable Liquids 3, H226 ⚠ Carcinogenicity 1B, H350; Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Repeated Exposure 1, H372 ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319	15-<20%
CAS: 7727-43-7 EINECS: 231-784-4 RTECS: CR 0600000	barium sulphate, natural	1-<5%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2	titanium dioxide ⚠ Carcinogenicity 2, H351	1-<5%

\* **4 First-aid measures**

· **4.1 Description of first aid measures**

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

\* **5 Fire-fighting measures**

· **5.1 Extinguishing media**

- Suitable extinguishing agents:  
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

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**5.3 Advice for firefighters**

- Firefighters should always use protective equipment and breathing apparatus when handling fire coming from these products
- Protective equipment: Mouth respiratory protective device.
- Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

**6 Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

- Mount respiratory protective device.
- Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:**

- Dilute with plenty of water.
- 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).
- Dispose contaminated material as waste according to section 13.
- Ensure adequate ventilation.

**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.

**Protective Action Criteria for Chemicals**

**PAC-1:**

- 
- 471-34-1 calcium carbonate: 45 mg/m<sup>3</sup>
  - 100-42-5 styrene: 20 ppm
  - 7727-43-7 barium sulphate, natural: 15 mg/m<sup>3</sup>
  - 13463-67-7 titanium dioxide: 30 mg/m<sup>3</sup>
  - 1345-25-1 iron oxide: 45 mg/m<sup>3</sup>

**PAC-2:**

- 
- 471-34-1 calcium carbonate: 210 mg/m<sup>3</sup>
  - 100-42-5 styrene: 130 ppm
  - 7727-43-7 barium sulphate, natural: 170 mg/m<sup>3</sup>
  - 13463-67-7 titanium dioxide: 330 mg/m<sup>3</sup>
  - 1345-25-1 iron oxide: 500 mg/m<sup>3</sup>

**PAC-3:**

- 
- 471-34-1 calcium carbonate: 1,300 mg/m<sup>3</sup>
  - 100-42-5 styrene: 1100\* ppm
  - 7727-43-7 barium sulphate, natural: 990 mg/m<sup>3</sup>
  - 13463-67-7 titanium dioxide: 2,000 mg/m<sup>3</sup>
  - 1345-25-1 iron oxide: 3,000 mg/m<sup>3</sup>

**7 Handling and storage**

**7.1 Precautions for safe handling**

- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Prevent formation of aerosols.
- Information about protection against explosions and fires:
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.

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Keep respiratory protective device available.

**7.2 Conditions for safe storage, including any incompatibilities**

- Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: Keep receptacle tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

**8.1 Control parameters**

- Components with limit values that require monitoring at the workplace:  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the remaining constituent has no known exposure limits.

**471-34-1 calcium carbonate**

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction  
REL Long-term value: 10\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction

TLV TLV withdrawn

**100-42-5 styrene**

PEL Long-term value: 100 ppm  
Ceiling limit value: 200; 600\* ppm  
\*5-min peak in any 3 hrs  
REL Short-term value: 425 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 215 mg/m<sup>3</sup>, 50 ppm  
TLV Short-term value: 20 ppm  
Long-term value: 10 ppm  
BEI, OTO, A3

**7727-43-7 barium sulphate, natural**

PEL Long-term value: 15\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction  
REL Long-term value: 10\* 5\*\* mg/m<sup>3</sup>  
\*total dust \*\*respirable fraction  
TLV Long-term value: 5\* mg/m<sup>3</sup>  
\*inhalable fraction; E

- Regulatory information  
PEL: Guide to Occupational Exposure Values (OSHA PELs)  
REL: Guide to Occupational Exposure Values (NIOSH RELs)  
TLV: Guide to Occupational Exposure Values (TLV)
- Ingredients with biological limit values:

**100-42-5 styrene**

BEI 400 mg/g creatinine  
Medium: urine  
Time: end of shift  
Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific)

40 µg/L  
Medium: urine  
Time: end of shift  
Parameter: Styrene

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· Additional information: The lists that were valid during the creation were used as basis.

### 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable: Fluorocarbon rubber (Viton)

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Rubber gloves

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Fluid
Color:	According to product specification
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Mixture is non-soluble (in water).

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	145.2 °C (293.4 °F)

· Flash point: 23 - 60 °C (73.4 - 140 °F)

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- Flammability (solid, gaseous): Flammable.
- Auto igniting: 480 °C (896 °F)
- Decomposition temperature: Not determined.
- Ignition temperature: Product is not selfigniting.
- Danger of explosion: Risk of explosion by shock, friction, fire or other sources of ignition.
- Explosion limits:
  - Lower: 1.2 Vol %
  - Upper: 8.9 Vol %
- Vapor pressure at 20 °C (68 °F): 6 hPa (4.5 mm Hg)
- Density at 20 °C (68 °F): 1.57 g/cm<sup>3</sup> (13.10165 lbs/gal)
- Relative density: Not determined.
- Vapor density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with
  - Water: Fully miscible.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- Solvent content:
  - Organic solvents: 15.3 %
  - VOC content: 15.30 %
  - 240.1 g/l / 2.00 lb/gal
  - Solids content: 62.7 %
- **9.2 Other information** No further relevant information available.

**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** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

- **11.1 Information on toxicological effects**
  - Acute toxicity: Based on available data, the classification criteria are not met.
  - LD/LC50 values that are relevant for classification:

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**471-34-1 calcium carbonate**

Oral LD50 6,450 mg/kg (rat)

**100-42-5 styrene**

Oral LD50 5,000 mg/kg (rat)

Inhalative LC50/4 h 24 mg/l (rat)

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**13463-67-7 titanium dioxide**

Oral LD50 >20,000 mg/kg (rat)

Dermal LD50 >10,000 mg/kg (rabbit)

Inhalative LC50/4 h >6.82 mg/l (rat)

· Primary irritant effect:

· on the skin:

Causes skin irritation.

· on the eye:

Causes serious eye irritation.

· Sensitization: Based on available data, the classification criteria are not met.

· Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

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14807-96-6 Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>): 3

100-42-5 styrene: 2A

9003-55-8 resin: 3

13463-67-7 titanium dioxide: 2B

· NTP (National Toxicology Program)

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100-42-5 styrene: R

· OSHA-Ca (Occupational Safety & Health Administration)

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None of the ingredients is listed.

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

· Carcinogenicity

May cause cancer. Route of exposure: Inhalation.

· Reproductive toxicity

Suspected of damaging fertility or the unborn child.

· Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.

· Specific target organ toxicity - repeated exposure

Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

· Aspiration hazard Based on available data, the classification criteria are not met.

**12 Ecological information**

· **12.1 Toxicity**

· Aquatic toxicity: No further relevant information available.

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· **12.5 Results of PBT and vPvB assessment**

· PBT: This product contains no substance that is considered to be persistent, bioaccumulating or non toxic (PBT).

· vPvB: Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

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**13 Disposal considerations**

**13.1 Waste treatment methods**

- Recommendation:  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:  
· Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

**14 Transport information**

**14.1 UN-Number**

· DOT, ADR, IMDG, IATA UN1263

**14.2 UN proper shipping name**

· DOT Paint  
· ADR UN1263 PAINT  
· IMDG, IATA PAINT

**14.3 Transport hazard class(es)**

· DOT



· Class 3 Flammable liquids  
· Label 3  
· ADR



· Class 3 (F1) Flammable liquids  
· Label 3  
· IMDG, IATA



· Class 3 Flammable liquids  
· Label 3

**14.4 Packing group**

· DOT, ADR, IMDG, IATA III

**14.5 Environmental hazards:**

Not applicable.

**14.6 Special precautions for user**

Warning: Flammable liquids

· Hazard identification number (Kemler code): 30

· EMS Number: F-E,S-E

· Stowage Category A

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

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· Transport/Additional information:

· ADR

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· IMDG

· Limited quantities (LQ)

· Excepted quantities (EQ)

5L

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation":

UN 1263 PAINT, 3, III

**15 Regulatory information**

·3Y

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

None of the ingredients is listed.

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

100-42-5 styrene

7727-43-7 barium sulphate, natural

· TSCA (Toxic Substances Control Act):

14807-96-6 Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>): ACTIVE

471-34-1 calcium carbonate: ACTIVE

100-42-5 styrene: ACTIVE

7727-43-7 barium sulphate, natural: ACTIVE

9003-55-8 resin: ACTIVE

13463-67-7 titanium dioxide: ACTIVE

1345-25-1 iron oxide: ACTIVE

· Hazardous Air Pollutants

100-42-5 styrene

· Proposition 65

· Chemicals known to cause cancer:

100-42-5 styrene

13463-67-7 titanium dioxide

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

7727-43-7 barium sulphate, natural: D, CBD(inh), NL(oral)

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· TLV (Threshold Limit Value)

14807-96-6 Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>): A4

100-42-5 styrene: A4

13463-67-7 titanium dioxide: A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

13463-67-7 titanium dioxide

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

The product is classified and labeled according to the CLP regulation.

· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labeling:

styrene

titanium dioxide

· Hazard statements

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H350 May cause cancer. Route of exposure: Inhalation.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

· Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- National regulations:
- Information about limitation of use:  
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

**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  
H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H350 May cause cancer.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.
- Contact:  
H.B BODY S.A  
Ms Olympia Stamkou  
Ph: +30 2310 790 032  
fax: +30 2310 790 033
- Date of preparation / last revision 03/17/2023
- \* Data compared to the previous version altered.

US