

SECTION 1.

IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers:

Product name: VELAFRESH™ ZP20

Product code: N/A

CAS-No.: 1662663-05-9

Other identification means:

Synonyms: Zinc polyitaconate; Poly(sodium, zinc itaconate), neutralized with KOH Poly(itaconic acid, sodium, zinc salt), neutralized with KOH.

1.2 Relevant identified uses for the mixture and uses advised against :

Recommended use: Odor absorbing agent in personal care products

Uses advised against: No information available

1.3 Details of the supplier of the safety datasheet:

Company: Itaconix Corporation

Address: 2 Marin Way,
Stratham, NH 03885, USA

Telephone: +1 (603) 775-4400

E-mail: info@itaconix.com

1.4 Emergency Telephone Number

Telephone: +1 (603) 775-4400 (Mon – Friday 09:00 – 17:00 US EST)

SECTION 2.

HAZARDS IDENTIFICATION

2.1 Classification of the mixture

Classification according to CLP Regulation (EC) No. 1272/2008

Not classified as hazardous mixture according to CLP Regulation (EC) No. 1272/2008

2.2 Label elements

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

The product does not need to be labelled in accordance with EC Regulations or respective national laws

2.3 Other hazards

<0.1% of the mixture contains unknown impurities

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Component (s): **VELAFRESH™ ZP20 is an aqueous solution of poly(itaconic acid – sodium zinc salt), neutralized with KOH. CAS number – 1662663-05-9.**

Under CLP EC1272/2008 - Composition information not required as mixture is not classified as a hazardous mixture.

SECTION 4. FIRST AID MEASURES

4.1 Description of First Aid measure

General advice: Consult a doctor if any symptoms develop. Show this safety data sheet to the doctor in attendance.

If inhaled: In case of serious inhalation, remove patient to fresh air, allow to rest and keep warm.

In case of prolonged skin contact: Remove contaminated clothing and shoes. Wash clothing and clean shoes before reuse. Wash off with soap and plenty of water.

In case of eye contact: If possible, remove contact lenses. Flush immediately with plenty of water for at least 15 minutes, keeping eyelids open.

If swallowed: DO NOT induce vomiting. Rinse mouth out and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, none are known but the chemical, physical, and toxicological properties of the product have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Revision Date: 30 October 2019

Revision Number: EU 1.0

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

No data available

**SECTION 6.
ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions

Wear suitable protective clothing to avoid contamination (gloves, eye protection, lab coat/overalls). In the event of burning product, avoid breathing vapors, mist or gas.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain/absorb with non-combustible absorbent material (e.g. sand, earth, vermiculite, chemical absorbent) and place in suitable, closable container for safe disposal.

6.4 Reference to other sections

For protective clothing see Section 8. For disposal see section 13

**SECTION 7.
HANDLING AND STORAGE**

7.1 Precautions for safe handling

Normal measures as prevention against fire. Minimise exposure to mist, vapour and spray in accordance with good industrial practises. Wash hands thoroughly after handling and wear appropriate PPE.

7.2 Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed to avoid contamination. Store in a cool place.

7.3 Specific end uses

Odor absorbing agent in personal care products.

SECTION 8.
EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

INGREDIENTS WITH WORKPLACE CONTROL PARAMETERS: Workplace control parameters are not available for this substance/mixture.

DERIVED NO EFFECT LEVEL (DNEL) FOR SUBSTANCE/MIXTURE: Workplace control parameters are not available for this substance/mixture.

PREDICTED NO EFFECT CONCENTRATIONS (PNEC): Workplace control parameters are not available for this substance/mixture.

Monitoring procedures: None specified

8.2 Exposure controls

Appropriate engineering controls: Ensure good ventilation. Arrange for eye wash (recommended). Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment: Eye and hand protection, laboratory lab coat or overalls are recommended. Always check applicability with your supplier of protective equipment.

Respiratory protection: Not required

Eye/face protection: Safety glasses with side-shields conforming to EN166 are recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection: Handling with gloves is recommended. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Butyl rubber may be suitable. (Break-through times can vary depending on thickness, use and source. Change gloves regularly.)

Skin protection: Laboratory coat or overalls are recommended.

SECTION 9.
PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Clear yellow liquid
b) Odour	No odor
c) Odour Threshold	Not applicable

SAFETY DATA SHEET

VELAFRESH™ ZP20



Revision Date: 30 October 2019

Revision Number: EU 1.0

d) pH	7.2-8.6*
e) Melting point/freezing point	No data available
f) Boiling point	No data available
g) Flash point	No data available
h) Evaporation Rate	No data available
i) Flammability (solid, gas)	Not applicable
j) Upper/Lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	~1.2g/l*
n) Water solubility	Highly water soluble
o) Partition coefficient: n-octanol/water	No data available
p) Auto ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	<100 cP*
s) Explosive properties	No ingredients have these properties
t) Oxidising properties	No ingredients have these properties

* Internal test protocol

9.2 Other safety information

None

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable product under recommended storage and handling conditions.

10.2 Chemical stability

Stable product under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions

Avoid temperatures greater than 90°C.

10.4 Conditions to avoid

Heat, flames.

10.5 Incompatible materials

Avoid strong oxidising agents.

10.6 Hazardous decomposition products

Hazardous decomposition products may be formed under fire conditions e.g. Carbon oxides.

SECTION 11.
TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Some data is available on the mixture – where not available, data based on individual components is shown below:

(a) acute toxicity	Not tested but based on available data, the classification criteria are not met.
(b) skin corrosion/irritation	Non irritant (OECD 439)
(c) serious eye damage/irritation	Non irritant (OECD 492)
(d) respiratory or skin sensitisation	Non skin sensitizer (HRIPT). Not tested for respiratory sensitization but based on available data, the classification criteria are not met.
(e) germ cell mutagenicity	Non mutagenic (OECD 471)
(f) carcinogenicity	Not tested but based on available data, the classification criteria are not met.
(g) reproductive toxicity	Not tested but based on available data, the classification criteria are not met.
(h) STOT-single exposure	Not tested but based on available data, the classification criteria are not met.
(i) STOT-repeated exposure	Not tested but based on available data, the classification criteria are not met.
(j) aspiration hazard	Not tested but based on available data, the classification criteria are not met.

Likely routes of exposure: Contact with skin and eyes or by inhalation of spray.

Potential health effects: To the best of our knowledge, none are known but the chemical, physical, and toxicological properties have not been thoroughly investigated.

Symptoms related to the physical, chemical and toxicological characteristics: To the best of our knowledge, none are known but the chemical, physical, and toxicological properties have not been thoroughly investigated.

Delayed and immediate effects as well as chronic effects from short and long-term exposure: To the best of our knowledge, none are known but the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information: None

SECTION 12
ECOLOGICAL INFORMATION

12.1 Toxicity

No classification for acute toxicity required.

Algae: E_rC₅₀ (0-72hrs) 24.65mg/l Crustacea: EC₅₀ (48hr) >100mg/l NOEC (48hr) 100mg/l

No ingredients classified as hazardous for the environment.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 PBT and vPvB assessment

No data available.

12.6 Other adverse effects

None known. No ingredients classified as hazardous for the environment present at or above 0.1%. Calculations according to the precepts of GHS and the Classification, Labelling and Packaging Regulation (EC1272/2008 as amended) show this product not to be classified as hazardous to aquatic life.

SECTION 13.
DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Treat as non-hazardous waste. Burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable product to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Avoid release to the environment.

Contaminated packaging

Dispose of as unused product.

Revision Date: 30 October 2019

Revision Number: EU 1.0

**SECTION 14.
TRANSPORT INFORMATION**

Not classified as dangerous for transport.

14.1. UN number None

14.2. UN proper shipping name None

14.3. Transport hazard class(es) None

14.4. Packing group None

14.5. Environmental hazards None

14.6. Special precautions for user None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

**SECTION 15.
REGULATORY INFORMATION**

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

UK legislation:

Control of Substances Hazardous to Health Regulations 2002

Environmental Protection Act 1990

Hazardous Waste Regulations 2005

All as amended from time to time.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out on this mixture.

Revision Date: 30 October 2019

Revision Number: EU 1.0

SECTION 16.
OTHER INFORMATION

Version number	EU 1.0
Date prepared	30 October 2019
Supersedes Version	N/A
Nature of revision	N/A

This SDS is a non-mandated SDS and is based on EU Regulation 1907/2006 as amended by Regulations 453/2010 and 2015/830

The above information is believed to be correct at the time of preparation but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

End of document.

Number of pages = 9