

Ingestion : May cause irritation to mouth, throat and stomach
Inhalation : May cause irritation to respiratory system when heated
60 °C or above.

4.3 Indication of any immediate medical attention and special treatment needed
If after applying the first aid measures, the person feels unwell go to the doctor

Section 5: Fighting Measures

- 5.1 Extinguishing media
Suitable extinguishing media : Not applicable because not a flammable liquid.
Unsuitable extinguishing media : Not applicable because not a flammable liquid.
- 5.2 Special hazards arising from the substance or mixture
This product does not undergo spontaneous decomposition. Typical products are carbon monoxide, carbon dioxide, nitrogen and water.
- 5.3 Advice for firefighters
Irritant, nonflammable, water soluble, upon contact with water generates foam.
Do not inhale gases created by fire

Section 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
Wear rubber gloves, mask and protective lens during spill containment. All clothing during spill containment should be washed to prevent eye or skin contact.
- 6.2. Environmental precautions
Prevent discharge into environment.
Do not discharge into rivers, lakes or sea.
- 6.3. Methods and material for containment and cleaning up
Contain spills and leaks with any environmentally friendly commercial absorbent up or vacuum up spillage. Collect product in suitable container for disposal. Rinse residue with water.

Section 7: Handling and Storage

- 7.1. Precautions for safe handling
Use suitable protective clothing: rubber gloves and protective lens during handling. Wash hands after use.
- 7.1.1. Instruction for fire and explosion protection
No special actions necessary.
- 7.2. Conditions for safe storage including any incompatibilities
Avoid direct sunlight. Store in a dry place at ambient temperature and ventilation area. Keep tightly closed

7.2.1. Further instructions for stock-keeping

Non-reactive and very stable.

7.2.2. Storage class

12 (Non-flammable liquid in a non-flammable container, Self-classification).

7.3. Specific end use (s):

Natural foaming agent, surfactant.

Section 8: Exposure Controls/Personal Protection

8.1. Control parameters

Not listed in IFA database.

8.2. Exposure controls:

Eye protection	:	Wear safety goggles
Protection for skin	:	Use suitable protective clothing
Protection for hands:	:	Wear safety-gloves
Thermal hazards:	:	None
Environmental exposure controls	:	Have available spill/leaks absorbent materials.

Section 9: Physical and Chemical Properties

9.1. Information on basis physical and chemical properties

Appearance and color	:	Liquid, dark brown to reddish
Odor	:	Characteristic, sweet
Odor threshold	:	Not applicable
pH	:	3.7-4.1
Melting point/freezing point	:	Not available
Initial boiling point and boiling range	:	P = 1atm, the b.p. is 103 ° to 107 °C.
Solid/gas flammability	:	Not applicable
Upper/lower flammability or explosive limits	:	Not applicable
Vapor density	:	Not available
Flash point	:	Not available
Evaporation rate	:	Not available
Vapor pressure	:	Not available
Relative density	:	1.212 to 1.224
Solubility in water	:	99.9 %
Lipid solubility	:	Not applicable
Partition coefficient (n-octanol/water)	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available

Viscosity : 62.5 centipoise at 71 °F
Explosive properties : Product does not explode
Oxidizing properties : Not available

- 9.2. Other information**
No additional information.

Section 10. Stability and Reactivity

- 10.1. Reactivity**
No specific test data related to reactivity is available for this product or its ingredients.
- 10.2. Chemical stability**
The product is stable under recommended storage conditions.
- 10.3. Possibility of hazard reactions**
None known to Desert King international under normal conditions of storage and handling.
- 10.4. Conditions to avoid**
None.
- 10.5. Incompatible materials**
None known to Desert King International.
- 10.6. Hazardous decomposition products**
None known to Desert King International.

Section 11: Toxicological Information

- 11.1. Information on toxicological effects**
There is no toxicological data available on the product.
- 11.2. Toxicological information on main components of the mixture:**
Not available.

Section 12: Ecological Information

- 12.1. Toxicity**
Not available.
- 12.2. Persistence and degradability**
Not known to Desert King International.
- 12.3. Bioaccumulative potential**
Yucca Extract is expected to desorb fairly rapidly from soil and not bioaccumulate.
- 12.4. Mobility in soil**
Yucca Extract is expected to desorb fairly rapidly from soil.

12.5. Results of PBT and vPvB assessment

Substance not listed in ESIS PBT List.

12.6. Other adverse effects

Not known to Desert King International.

Section 13: Disposal Considerations

13.1. Waste treatment methods

Dispose of in accordance to all local regulations.

Section 14: Transport Information

14.1. No limitations to transport known

Product is not flammable, not corrosive, not explosive and not radioactive.

Section 15: Regulatory Information

15.1. Regulatory status

The Dangerous Substance Directive (Directive 67/548/EEC, "DSD"), the Dangerous Preparations Directive (Directive 1999/45/EC, "DPD") and the new Regulation classification, labeling and packaging of substances and mixtures, Regulation (EC) No 1272/2008 ("CLP Regulation" or "CLP").

USA-FDA Title 21 CFR 172.510. Flavoring agents and related substances. FEMA GRAS number 3121.

15.2. Chemical safety assessment

Health Hazard
4. Deadly
3. Extreme danger
2. Hazardous
1. Slightly hazardous
0. Normal material

Specific Hazard
ACID - Acid
ALK - Alkali
COR - Corrosive
OXY - Oxidizer
P - Polymerization
RAD - Radioactive
N/W - Use no water



Fire Hazards - Flash Points
4. Below 23°C
3. Below 38°C
2. Above 38°C not exceeding 93°C
1. Above 93°C
0. Will not burn

Reactivity
4. May detonate
3. Shock and heat may detonate
2. Violent chemical change
1. Unstable if heated
0. Stable

Section 16: Other Information

This safety data sheet cannot cover all possible situations which the user may experience during handling. Each aspect of operation should be examined to determine if, or where, additional

precautions may be necessary. All health and safety information contained in this bulletin should be provided to employees or customers.

Rev.05. November 9, 2018.

Abbreviations and acronyms

b.p.	Boiling point
CAS	Chemical Abstract Service
CEN	European Committee for Standardization
CFR	Code of Federal Regulations
CLP	Classification, Labeling and Packaging
DPD	Dangerous Preparations Directive
DSD	Dangerous Substance Directive
EC	European Communities
EEC	European Economic Community
EINECS	European Inventory of Existing Commercial Chemical Substances
ESIS	European chemical Substances Information System
FDA	US Food and Drug Administration
FEMA	Flavor and Extract Manufacturers Association
GHS	Globally Harmonized System
GRAS	Generally Recognized as Safe
IFA	Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung
NIOSH	National Institute for Occupational Safety and Health
P	Pressure
PBT	Persistent, Bioaccumulative and Toxic