



SAFETY DATA SHEET

Product : NAT BLUEBERRY FLAVOR WONF F101568

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

NAT BLUEBERRY FLAVOR WONF F101568

Your reference : 5AHBZZ8054C

1.2 Relevant identified uses of the substance or mixture and uses advised against

Perfume composition, flavour or aromatical ingredient, for an industrial usage, that can be used in end-user product.

1.3 Details of the supplier of the safety data sheet

Supplier : MANE INC.
Address : 2501 Henkle Drive - LEBANON, OH 45036 - UNITED STATES
Telephone : 513-248-9876 (Only during office hours)
e-mail : us.reg-flav@mane.com

1.4 Emergency telephone number

Emergency telephone : CHEMTREC 1-703-527-3887 / 1-800-424-9300

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Physical hazards

No hazard specified.

Health Dangers

No hazard specified.

Environmental hazards

No hazard specified.

2.2 Label elements

Pictogram

None



SAFETY DATA SHEET

Product : NAT BLUEBERRY FLAVOR WONF F101568

Signal Word

None

Hazard Statements

None

Precautionary Statements

None

2.3 Other hazards

None

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.: Not applicable

3.2 Mixtures

Hazardous Substances

| Component | CAS | Concentration limit | CLASSIFICATION |
|-------------|-----------|---------------------|---------------------|
| MALIC ACID | 6915-15-7 | >= 1 % - 5 % | Eye Irrit. 2A, H319 |
| CITRIC ACID | 77-92-9 | >= 1 % - 5 % | Eye Irrit. 2A, H319 |

Ingredients having an occupational exposure limit value: See section 8.

4 FIRST AID MEASURES

4.1 Description of first aid measures

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.2 Most important symptoms and effects, both acute and delayed



SAFETY DATA SHEET

Product : NAT BLUEBERRY FLAVOR WONF F101568

Get medical attention if symptoms persist.

4.3 Indication of any immediate medical attention and special treatment needed

Never give liquid to an unconscious person.

5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water, CO2 or Foam
Extinguishing media to avoid
Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Avoid breathing dust or vapor.
Cool containers exposed to flames with water until well after the fire is out.

5.3 Advice for firefighters

No specific precautions.

[x] 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Contain spillages with sand, earth or any suitable adsorbent material.

6.2 Environmental precautions

Should not be released into the environment.

6.3 Methods and materials for containment and cleanup procedure

Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

6.4 Reference to other sections

See Section 8 of the MSDS for Personal Protective Equipment.
For waste disposal, see section 13 of the MSDS.



SAFETY DATA SHEET

Product : NAT BLUEBERRY FLAVOR WONF F101568

[x] 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Keep strict control of dust accumulation to a minimum.
Maintain adequate local and general ventilation where product is handled.
Avoid any sources of ignition.

7.1.2 Advice on general occupational hygiene

Good personal washing routines should be followed

7.2 Condition for safe storage, including any incompatibilities

Keep only in the original container in an appropriate place.

7.3 Specific end use(s)

No specific precautions.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

National occupational exposure limits (OELs) values: None

8.2 Exposure controls

8.2.1 Environmental exposure controls

Discharge, treatment, or disposal may be subject to national, state, or local laws.

8.2.2 Personal protective equipment (ppe)

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Eye protection: Wear goggles/face shield.

Hand protection: Gloves.

Skin protection: Wear suitable protective clothing. Provide adequate ventilation if fumes or vapors are generated.

9 PHYSICAL AND CHEMICAL PROPERTIES

Product : NAT BLUEBERRY FLAVOR WONF F101568



9.1 Information on basic physical and chemical properties

- Physical State: LIQUID
- Color: DARK PURPLE
- Final Color: PURPLE
- Odor: Characteristic
- pH: No data available.
- Melting point (°C): No data available.
- Boiling point (°C): No data available.
- Flash point (°F): >212 °F
- Evaporation Rate: No data available.
- Flammability (solid, gas): No data available.
- Upper/lower limit on flammability or explosive limits: No data available.
- Vapor pressure: No data available.
- Vapor Density: No data available.
- Specific Gravity: 1.2172 / 1.2372
- Solubility: No data available.
- Log Pow (n-Octanol/Water Partition Coefficient): No data available.
- Auto Ignition Temp. (°C): No data available.
- Decomposition temperature (°C): No data available.
- Viscosity: No data available.
- Explosive properties: No data available.
- Oxidizing properties: No data available.
- Vapor pressure at 20°C: No data available.
- Vapor pressure at 50°C: No data available.



SAFETY DATA SHEET

Product : NAT BLUEBERRY FLAVOR WONF F101568

9.2 Other information

No other information noted.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product Information

| | |
|--------------------|---------------------|
| LD50 Dermal(mg/kg) | > 5000 (Calculated) |
| LD50 Oral(mg/kg) | > 5000 (Calculated) |



SAFETY DATA SHEET

Product : NAT BLUEBERRY FLAVOR WONF F101568

CL50 Inhalation - vapor(mg/l) > 100 (Calculated)

11.2 Other toxicological data information

This product has not been subject to toxicological testing as an entity. According to available data on the constituents, the health classification criteria are met.

11.3 Information about carcinogens

NTP: None

IARC: None

OSHA: None

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Product Information

| | |
|---------------------|----------------------|
| Toxicity Fish | : No data available. |
| Toxicity Alga | : No data available. |
| Toxicity Water Flea | : No data available. |

12.2 Persistence and degradability

| | |
|------------------|----------------------|
| Biodegradability | : No data available. |
| Hydrosolubility | : No data available. |
| Comments | : None |

12.3 Other eco-toxicological information

This product has not been subject to eco-toxicological testing as an entity. According to available data on the constituents, the environment classification criteria are met.

| | |
|---|----------------------|
| Log Pow (n-Octanol/Water Partition Coefficient) | : No data available. |
| Bio Concentration Factor | : No data available. |
| Bioaccumulative potential | : No data available. |
| Mobility in soil | : No data available. |
| Other adverse effects | : No data available. |



SAFETY DATA SHEET

Product : NAT BLUEBERRY FLAVOR WONF F101568

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not release into the environment. Confirm disposal procedures with environmental engineer and local regulations.

13.2 Other information

Always keep original label(s) on empty recipients (drums/pails).

[x] 14 TRANSPORT INFORMATION

DOT (Exceptions may apply)

Not regulated

IATA

Not regulated

IMDG

Not regulated

15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: No recommendation given

[x] 16 OTHER INFORMATION

16.1 Entire text of the H and P phrases mentioned in chapters 2 and 3:

H319 Causes serious eye irritation.

16.2 Abbreviation and acronyms

CAS: Chemical Abstracts Service

CO2: Carbon dioxide

LD50: Lethal dose 50

NTP: National Toxicology program

IARC: International Agency for Research on Cancer

OSHA: Occupational Safety and Health Administration

UN: United Nations

IMDG : International Maritime Dangerous Goods

IATA : International Air Transport Association

16.3 Key literature references and sources for data

SAFETY DATA SHEET

Product : NAT BLUEBERRY FLAVOR WONF F101568



This Safety Data Sheet has been prepared in accordance with the Hazard Communication Standard (HCS) and its amendments, promulgated by the US Occupational Safety and Health Administration (OSHA) – 29 CFR 1900.1200. We cannot be held responsible in the event of improper usage of this product. It is up to the user to analyse the information given and to determine appropriate handling conditions for the safe use of this product. It is the user's liability to conform to all local, national, and international regulations that apply to its activities. This automatically generated safety data sheet is valid without signature.

The information provided is correct to the best of our knowledge, information and belief at the date of its publication. The information is provided as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.