

Revision Number: 1
Revision Date: 09-April-2018
Issue Date: 09-April-2018

1. PRODUCT AND COMPANY IDENTIFICATION**Product Identifier**

Product Code NV-101642
Product Name BLACKBERRY FLAVOR WONF, NATURAL

Recommended use of the chemical and restrictions on use

Recommended use Flavors. Industrial use.
Uses advised against Do not ingest as such. Avoid eye contact.

Details of the supplier of the safety data sheet

Robertet Flavors
10 Colonial Drive
Piscataway, NJ 08854
TEL: 732-981-8300
email: regulatory@robertetusa.com

Emergency telephone number

Emergency Telephone Number Chemtrec 1-800-424-9300 (24 hrs)

2. HAZARDS IDENTIFICATION**OSHA Hazard Classification****OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation

Category 2A

Label elements**Signal Word**

Warning

Hazard Statements

Causes serious eye irritation

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling
Wear eye/face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Hazards not otherwise classified (HNOC)

None known

Other Information

Not applicable

Interactions with Other Chemicals

Not applicable

Principle Routes of Exposure

Inhalation Skin contact Eye contact

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture. The ingredients in this mixture are considered to be proprietary and will be revealed here only at the discretion of Robertet. In the event of a genuine medical emergency, they will be revealed to a qualified health professional. In non-emergency situations, disclosure requests will be handled in accordance with the pertinent provisions of the OSHA Hazard Communication Standard.

Component	CAS No	Weight-%	GHS Classification
Citric acid	77-92-9	10 - 20%	Skin Corr. 3 (H316) Eye Irrit. 2A (H319)
Propionic acid	79-09-4	0 - 10%	Eye Dam. 1 (H318) Acute Tox. Oral 5 (H303) Flam. Liq. 3 (H226) Skin Corr. 1B (H314)

4. FIRST AID MEASURES**First Aid Measures**

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Inhalation	Remove to fresh air. If symptoms arise, call a physician.
Ingestion	Do not induce vomiting without medical advice; Clean mouth with water; Consult a physician if necessary

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use: Dry chemical. Carbon dioxide (CO2). Water spray. alcohol-resistant foam.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical

In the event of fire and/or explosion do not breathe fumes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protection equipment:

Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for Clean-Up Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment/face protection. Do not breathe vapours or spray mist. Use product only in closed system.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store at 55-85 Deg F / RH 30-70%.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Component	OSHA PEL (TWA)	ACGIH TLV (TWA)	ACGIH TLV (STEL)	California PEL (TWA)
Propionic acid 79-09-4	30 MGM3, 10 PPM	10 PPM	-	30 MGM3, 10 PPM
Acetic acid 64-19-7	25 MGM3, 10 PPM	10 PPM	15 PPM	25 MGM3, 10 PPM

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State: Liquid
Appearance: Light yellow to colorless liquid
Odor: Characteristic
Odor Threshold: No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	No data available	AOAC 945.10
Melting Point/Range	No data available	USP <741>
Boiling point / boiling range	No data available	None known
Flash Point:	> 93 °C / > 200 °F	ASTM D6450
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Vapor Pressure (mm Hg @ 20°C):	No data available	None known
Vapor Density	No data available	None known
Relative density	No data available	None known
Specific Gravity @ 20/20 °C:	1.0929 +/- 0.02	AOAC 988.06
Refractive Index @ 20°C:	1.4319 +/- 0.02	AOAC 920.141
Water Solubility	Soluble	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition temperature	No data available	None known
Viscosity	No data available	ASTM D2196

Explosive Properties No information available

Oxidizing Properties

No information available

Other information

10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use. Keep away from oxidizing agents and strongly acid or alkaline materials.

Chemical Stability

Stable under normal conditions. Hazardous polymerisation does not occur.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

No information available.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Product does not present an acute toxicity hazard based on known information

Inhalation

No data available.

Eye Contact

Severely irritating to eyes.

Skin Contact

No data available.

Ingestion

No data available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

Oral LD50 >5000 mg/kg

Dermal LD50 No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

None known

Persistence/Degradability

No information available.

Bioaccumulation/ Accumulation

No information available.

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method	Dispose of in accordance with local regulations.
Contaminated Packaging	Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>IATA/ICAO</u>	Not regulated
<u>ADR/RID</u>	Not regulated

15. REGULATORY INFORMATION

USA

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

State Regulations

<u>California Proposition 65</u>	This product does not contain any Proposition 65 chemicals
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International Regulations

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class
D2B Toxic materials



16. OTHER INFORMATION

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to 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.

Classification and Labelling according to the IFRA/IOFI Labelling Manual 2013.

Issue Date: 09-April-2018

End of Safety Data Sheet

