

Safety Data Sheet



This safety data sheet complies with the requirements of:
US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Product code PF20-01463
Product name BLACKBERRY PLUS TYPE FL NAT OS

Issue date 16-Apr-2020

Revision date 16-Apr-2020

Version 2

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product name BLACKBERRY PLUS TYPE FL NAT OS

Other means of identification

Product code PF20-01463
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Industry Use.
Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address
TERPENE WAREHOUSE
3100 East Cedar St. Suite 16
Ontario, CA 91761
Phone: +1 760-205-5222

Emergency telephone number

Company Phone Number Use CHEMTREC instead of Emergency Phone Number
Emergency telephone Chemtrec 1-800-424-9300 Contract# CCN17256

2. Hazards Identification

Classification

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2A
Flammable liquids	Category 4

Label Elements

EMERGENCY OVERVIEW

Warning

Hazard statements
Harmful if swallowed
Causes serious eye irritation
Combustible liquid

**Appearance** Clear**Physical state** Liquid**Odor** Characteristic odor**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Keep away from flames and hot surfaces. - No smoking. Wear protective gloves/eye protection/face protection.

Precautionary Statements - Response

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.

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

In case of fire: Use CO₂, dry chemical, or foam to extinguish.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)**Other Information**

- May be harmful in contact with skin
- Harmful to aquatic life

97.7089 % of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients

* 100% of the composition has been withheld as a trade secret.

4. First Aid Measures

Description of 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. Wash off immediately with plenty of water. Wash contaminated clothing before reuse. Consult a physician if necessary.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-Fighting Measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media .

Specific hazards arising from the chemical

Combustible material.

Hazardous combustion products Irritating or toxic substances may be emitted upon burning, combustion, or decomposition.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Special protective actions for fire-fighters

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

Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and inhalation of vapors. Wear protective gloves/protective clothing and eye/face protection. Wash thoroughly after handling.

Environmental precautions

Environmental precautions

See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Ensure adequate ventilation, especially in confined areas. Wash thoroughly after handling. When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Keep locked up and out of reach of children.

Incompatible materials

None known based on information supplied.

8. Exposure Controls/Personal Protection

Control parameters

Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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Ethyl acetate 141-78-6	TWA: 400 ppm	TWA: 400 ppm TWA: 1400 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 1400 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 1400 mg/m ³
Propionaldehyde 123-38-6	TWA: 20 ppm	-	-
Toluene - Indirect Synthetic Impurity 108-88-3	TWA: 20 ppm	TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m ³ Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³

Appropriate engineering controls

Engineering controls Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles). Avoid contact with eyes.

Skin and Body Protection Avoid contact with skin. 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. Ensure adequate ventilation, especially in confined areas.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. When using do not eat, drink or smoke. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended. Avoid breathing (dust, vapor, mist, gas).

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Characteristic odor
Appearance	Clear	Odor threshold	Not applicable
Color	Pale Yellow		
Property	Values	Remarks • Method	
pH	Not applicable		
Melting point / freezing point	Not applicable		
Boiling point / boiling range	No data available		
Flash Point	85 °C / 185.1 °F		
Evaporation Rate	Not applicable		
Flammability (solid, gas)	Not applicable		
Flammability Limit in Air			
Upper flammability limit:	Not applicable		
Lower flammability limit:	Not applicable		
Vapor pressure	Not applicable		
Vapor Density	Not applicable		
Specific gravity	Not applicable		
Water solubility	Not applicable		
Solubility in other solvents	Not applicable		
Partition coefficient	Not applicable		
Autoignition Temperature	Not applicable		
Decomposition temperature	Not applicable		

Kinematic viscosity No data available
Dynamic viscosity Not applicable
Explosive properties Not applicable
Oxidizing properties Not applicable

Other Information

Softening point not applicable
Molecular weight Not applicable
VOC content (%) Not applicable
Density Not applicable
Bulk Density Not applicable

10. Stability and Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. Toxicological Information

Information on likely routes of exposure

Product Information

Inhalation Avoid breathing vapors or mists.
Eye Contact Avoid contact with eyes. Causes serious eye irritation.
Skin contact Avoid contact with skin. May be harmful in contact with skin.
Ingestion Harmful if swallowed.

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Not expected to cause skin irritation.
Serious eye damage/eye irritation Causes serious eye irritation.
Sensitization Not expected to cause skin sensitization.
Germ cell mutagenicity Not classified.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Toluene - Indirect Synthetic		Group 3		

Impurity 108-88-3				
Reproductive toxicity	This product does not contain any known or suspected reproductive hazards above the threshold value.			
STOT - single exposure	Not classified.			
STOT - repeated exposure	Not classified.			
Aspiration hazard	Not classified.			

Numerical measures of toxicity - Product Information

Unknown acute toxicity 97.7089 % of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated based on chapter 3.1 of the GHS document .

12. Ecological Information**Ecotoxicity**

Harmful to aquatic life

88.88116 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Benzyl alcohol 100-51-6	35: 3 h Anabaena variabilis mg/L EC50	96hr LC50 - 460 mg/L (Pimephales promelas)		48hr EC50 - 230 mg/L (Daphnia magna)
Triacetin 102-76-1		170: 48 h Leuciscus idus mg/L LC50 static		380: 48 h Daphnia magna mg/L EC50
Ethyl acetate 141-78-6	3300: 48 h Desmodesmus subspicatus mg/L EC50	352 - 500: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 484: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 220 - 250: 96 h Pimephales promelas mg/L LC50 flow-through		560: 48 h Daphnia magna mg/L EC50 Static
Butyric acid 107-92-6	46.7: 72 h Desmodesmus subspicatus mg/L EC50	200: 24 h Lepomis macrochirus mg/L LC50	EC50 = 10.1 mg/L 15 min EC50 = 16.9 mg/L 15 min EC50 = 16.9 mg/L 5 min EC50 = 17.2 mg/L 25 min	61.7: 24 h Daphnia magna mg/L EC50
Vanillin 121-33-5		96hr LC50 - 57mg/L (CI: 53 - 61.3mg/L) (Pimephales promelas)		48hr EC50 - 36.79 mg/L, 48hr NOEC - 26.8 mg/L (Daphnia magna)
Propionaldehyde 123-38-6	58: 72 h Pseudokirchneriella subcapitata mg/L EC50 260: 72 h Desmodesmus subspicatus mg/L EC50 40: 96 h Pseudokirchneriella subcapitata mg/L EC50	130: 96 h Lepomis macrochirus mg/L LC50 static 14: 96 h Pimephales promelas mg/L LC50 static		88.7: 48 h Daphnia magna mg/L EC50
cis-3-Hexenol 928-96-1		96hr LC50 - 381 mg/L (Pimephales promelas)		48hr EC50 - >100 mg/L (Daphnia)
Isoamyl Butyrate 106-27-4		96hr LC50 - 3.19 mg/L (Danio rerio)		48hr EC50/LC50 - 8.12 mg/L (Daphnia magna)
Benzaldehyde 100-52-7		7.5: 96 h Lepomis macrochirus mg/L LC50 static 6.8 - 8.53: 96 h Pimephales promelas mg/L LC50 flow-through 0.8 - 1.44: 96 h Lepomis macrochirus mg/L LC50 flow-through 10.6 - 11.8: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 12.69: 96 h Oncorhynchus mykiss mg/L LC50 static	EC50 = 4.85 mg/L 30 min EC50 = 5.08 mg/L 15 min EC50 = 6.11 mg/L 5 min	50: 24 h Daphnia magna mg/L EC50
Toluene - Indirect Synthetic Impurity 108-88-3	12.5: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 433: 96 h	50.87 - 70.34: 96 h Poecilia reticulata mg/L LC50 static 54: 96 h Oryzias latipes mg/L LC50 static 28.2: 96 h	EC50 = 19.7 mg/L 30 min	11.5: 48 h Daphnia magna mg/L EC50 5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static

	Pseudokirchneriella subcapitata mg/L EC50	Poecilia reticulata mg/L LC50 semi-static 15.22 - 19.05: 96 h Pimephales promelas mg/L LC50 flow-through 5.89 - 7.81: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 5.8: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 12.6: 96 h Pimephales promelas mg/L LC50 static 14.1 - 17.16: 96 h Oncorhynchus mykiss mg/L LC50 static 11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static		
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Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

13. Disposal Considerations

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container.

14. Transport Information

DOT

Not regulated

15. Regulatory Information

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Propionaldehyde - 123-38-6	123-38-6	0.1 - <1	1.0
Toluene - Indirect Synthetic Impurity - 108-88-3	108-88-3	<0.01	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Butyric acid 107-92-6	5000 lb			X
Toluene - Indirect Synthetic Impurity 108-88-3	1000 lb	X	X	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethyl acetate 141-78-6	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Butyric acid 107-92-6	Listed.		RQ 5000 lb final RQ RQ 2270 kg final RQ
Propionaldehyde 123-38-6	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Ethyl propionate 105-37-3	Listed.		
Toluene - Indirect Synthetic Impurity 108-88-3	Listed.		RQ 1000 lb final RQ RQ 454 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ

US State Regulations

U.S. State Right-to-Know Regulations

This product contains substance(s) regulated by state right-to-know regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island
Benzyl alcohol 100-51-6		X	X	
Ethyl acetate 141-78-6	X	X	X	
Butyric acid 107-92-6	X	X	X	X
Propionaldehyde 123-38-6	X	X	X	
cis-3-Hexenol 928-96-1			X	
Ethyl butyrate 105-54-4	X	X	X	
Ethyl propionate 105-37-3	X	X	X	
Ethyl isobutyrate 97-62-1	X	X	X	
Benzaldehyde 100-52-7	X	X	X	X
Toluene - Indirect Synthetic Impurity 108-88-3	X	X	X	X

U.S. EPA Label information

EPA Pesticide registration number Not applicable

16. Other Information

Issue date 16-Apr-2020

Revision date 16-Apr-2020

Revision note

No information available

Disclaimer

This material has not been tested or proven safe for inhalation. With this document, Terpene Warehouse only attests to the safety of the product when used in the appropriate and suitable fragrance/flavor industry application. Classification and labeling according to the IFRA/IOFI Labeling Manual 2019.

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet