

Product

**BERRY** 

Print Date

03/21/2018

Page 1 (11)

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

BERRY

IFF Code

SC738258

Cust. Material

: RM0005155

SDS Number

300000670327

Product Use Description

Flavour Compound

Company

IFF Inc.

150 Docks Corner Road Dayton NJ 08810-0439

Telephone

(732) 329-4600

Telefax

(732) 329-5634

Emergency telephone number

+1 800 424 9300

### SECTION 2 HAZARDS IDENTIFICATION

#### GHS-Classification

Flammable liquids, Category 3, Acute toxicity, Category 4, Oral, Serious eye damage, Category 1, Specific target organ toxicity - single exposure, Category 3, Central

Specific target organ toxicity - single exposure, Category 3, Central nervous system

GHS-Labelling

Symbol(s)



Signal word

: Danger

Version

: 1

Revision Date

: 03/21/2018

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Product

BERRY

Print Date

03/21/2018

Page 2 (11)

Hazard statements

: H226: Flammable liquid and vapour.

H302: Harmful if swallowed. H318: Causes serious eye damage.

H336: May cause drowsiness or dizziness.

Precautionary statements

: P210: Keep away from heat/sparks/open flames/hot surfaces. No

smoking.

P240: Ground/bond container and receiving equipment.

P280: Wear eye protection/ face protection.

P301 + P312 + P330: IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell. Rinse mouth.

P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if

you feel unwell.

P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Immediately call a POISON

CENTER/doctor.

P403 + P235: Store in a well-ventilated place. Keep cool.

#### Carcinogenicity:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Flavoring Compound: A multi component mixture of flavoring ingredients. The specific chemical identities of the ingredients not listed herein are considered by IFF to be Trade Secrets and are withheld in accordance with the provisions of 1910.1200 of Title 29 of the U.S. Code of Federal Regulations.

Version

: 1

Revision Date

: 03/21/2018

IFF Inc. 150 Docks Corner Road Dayton NJ 08810-0439

Telephone: +17323294600

IFF Inc. 150 Docks Corner Road Dayton NJ 08810-0439



Product

**BERRY** 

Print Date

03/21/2018

Page 3 (11)

### SECTION 4. FIRST AID MEASURES

### First aid procedures

Inhalation

: Remove from exposure site to fresh air and keep at rest. If victim is unconscious, remove foreign bodies from the mouth. If victim has stopped breathing, give artificial respiration. Obtain medical advice.

Skin contact

Remove contaminated clothes. Wash thoroughly with water (and

soap). Contact physician if symptoms persist.

Eye contact

: Flush immediately with water for at least 15 minutes. Contact

physician if symptoms persist.

Ingestion

: Rinse mouth with water and obtain medical advice.

### SECTION 5. FIREFIGHTING MEASURES

### Flammable properties

Flash point

108 °F (42 °C)

### Fire fighting

Suitable extinguishing media

: Use water spray, dry chemical, carbon dioxide or appropriate foam.

### Protective equipment and precautions for firefighters

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Special protective equipment for

firefighters

: Wear NIOSH approved self-contained breathing apparatus and full protective clothing when fighting fires involving chemicals. Use

water spray to cool containers exposed to fire.

Version

Revision Date

:

: 03/21/2018

IFF Inc. 150 Docks Corner Road Dayton NJ 08810-0439 IFF Inc. 150 Docks Corner Road Dayton NJ 08810-0439



Product

BERRY

Print Date

03/21/2018

Page 4 (11)

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

: Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.

Environmental precautions

: Keep away from drains, surface- and groundwater and soil.

Methods for containment / Methods for cleaning up

: Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

#### SECTION 7. HANDLING AND STORAGE

Handling

: Avoid excessive inhalation of concentrated vapors. Follow good manufacturing practices for housekeeping and personal hygiene. Wash any exposed skin immediately after any chemical contact, before breaks and meals, and at the end of each work period. Contaminated clothing and shoes should be thoroughly cleaned before re-use.

If appropriate, procedures used during the handling of this material should also be used when cleaning equipment or removing residual chemicals from tanks or other containers, especially when steam or hot water is used, as this may increase vapor concentrations in the workplace air. Where chemicals are openly handled, access should be restricted to properly trained employees.

Keep all heated processes at the lowest necessary temperature in order to minimize emissions of volatile chemicals into the air.

Advice on protection against fire and explosion

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Keep away from ignition sources and naked flame.

Version

Revision Date

•

: 03/21/2018

IFF Inc. 150 Docks Corner Road Dayton NJ 08810-0439 150 Docks Corner Road Dayton NJ 08810-0439



Product

**BERRY** 

Print Date

03/21/2018

Page 5 (11)

Requirements for storage areas and : containers

Store in a cool, dry, ventilated area away from heat sources. Keep

containers upright and tightly closed when not in use.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	Listed by	Value type	Exposure limit(s)
Benzenemethanol	USA. Workplace Environmental Exposure Levels (WEEL)	8-hr TWA	10 ppm
1,2-Propanediol	USA. Workplace Environmental Exposure Levels (WEEL)	8-hr TWA	10 mg/m3
1-Propanol	USA. ACGIH Threshold Limit Values (TLV)	8-hour, time-weighted average	100 ppm
1-Propanol	USA. NIOSH Recommended Exposure Limits	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek	200 ppm 500 mg/m3
1-Propanol	USA. NIOSH Recommended Exposure Limits	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday	250 ppm 625 mg/m3
1-Propanol	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	8-hour time weighted average	200 ppm 500 mg/m3
1-Propanol	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000	Short-term exposure limit	250 ppm 625 mg/m3
1-Propanol	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000	8-hour time weighted average	200 ppm 500 mg/m3
1-Propanol	California permissible exposure limits for chemical contaminants (Title 8, Article 107)	Permissible exposure limit	200 ppm 500 mg/m3

Version

Revision Date

:

: 03/21/2018

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Telephone: +17323294600



Product

BERRY

Print Date

03/21/2018

Page 6 (11)

1-Propanol	California permissible exposure limits for chemical contaminants	Short term exposure limit	250 ppm 625 mg/m3
	(Title 8, Article 107)		

#### Engineering measures

Engineering measures

: Where feasible, isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant.

Where feasible, use closed systems to transfer and process this material

#### Personal protective equipment

Eye protection

: Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact might occur.

Hand protection

: Avoid skin contact. Use chemically resistant gloves.

Respiratory protection

: Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures.

No respiratory protection is required during normal operations in a

No respiratory protection is required during normal operations in a workplace where engineering controls such as adequate ventilation, etc. are sufficient.

If engineering controls and safe work practices are not sufficient, an approved, properly fitted respirator with organic vapor cartridges or canisters and particulate filters should be used:

a)while engineering controls and appropriate safe work practices and/or procedures are being implemented; or b)during short term maintenance procedures when engineering controls are not in normal operation or are not sufficient; or

Version Revision Date

:

: 03/21/2018

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Telephone: +17323294600



Product

BERRY

Print Date

03/21/2018

Page 7 (11)

c)if normal operational workplace vapor concentration in the air is increased due to heat;

d)during emergencies; or

e)if engineering controls and operational practices are not sufficient to reduce airborne concentrations below an established occupational exposure limit.

Hygiene measures

To the extent deemed appropriate, implement pre-placement and regularly scheduled ascertainment of symptoms and spirometry testing of lung function for workers who are regularly exposed to this material.

To the extent deemed appropriate, use an experienced air sampling expert to identify and measure volatile chemicals that could be present in the workplace air to determine potential exposures and to ensure the continuing effectiveness of engineering controls and operational practices to minimize exposure.

Protective measures

: In December 2003, the National Institute for Occupational Safety and Health ("NIOSH") published an Alert on preventing lung disease in workers who use or make flavorings [NIOSH Publication Number 2004-110].

In August 2004, the United States Flavor and Extract Manufacturers Association (FEMA) issued a report entitled "Respiratory Safety in the Flavor Manufacturing Workplace".

Both of these reports provide recommendations for reducing employee exposure and for medical surveillance in the workplace. The recommendations in these reports are generally applicable to the use of any chemical in the workplace and you are strongly urged to review both of these reports.

The report published by FEMA also contains a list of "high priority" chemicals. If any of these chemicals are present in this product at a concentration >= 1.0% due to an intentional addition by IFF, the chemical(s) will be identified in this safety data sheet.

Version Revision Date : '

: 03/21/2018

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Product

BERRY

Print Date

03/21/2018

Page 8 (11)

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state

: liquid

Appearance

: CLEAR TO SLIGHTLY HAZY LIQUID

Colour

: amber to gold

Odour

: conforms to standard

Safety data

Flash point

: 108 °F (42 °C)

Vapour pressure

: 6.68 hPa (6.68 hPa) Note: Calculated

Relative density (20 °C)

: 0.9913 - 1.0313

# SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid

: Remarks: Direct sources of heat.

Chemical stability

: Remarks: Presents no significant reactivity hazard, by itself or in contact with water. Avoid contact with strong acids, alkali or

oxidizing agents.

Hazardous decomposition products

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: Note: Carbon monoxide and unidentified organic compounds may

be formed during combustion.

### SECTION 11. TOXICOLOGICAL INFORMATION

Version

... D.4-

:

Revision Date

: 03/21/2018

IFF Inc. 150 Docks Corner Road Dayton NJ 08810-0439 IFF Inc. 150 Docks Corner Road Dayton NJ 08810-0439



Product

**BERRY** 

Print Date

03/21/2018

Page 9 (11)

#### Toxicological information

Further information

There is no data available for this product. The health hazards are assessed based on the ingredients in this preparation and their

concentrations.

## SECTION 12. ECOLOGICAL INFORMATION

### **Ecological information**

Additional ecological information : Avoid contamination of soil, ground and surface water.

### SECTION 13. DISPOSAL CONSIDERATIONS

Contaminated packaging

: Place material into sealed containers and dispose of in accordance

with local, state and federal regulations.

### SECTION 14. TRANSPORT INFORMATION

DOT

Proper shipping name

: Combustible liquid, n.o.s.

(PROPYL ALCOHOL)

Labels UN number : NONE : 1993

Class

: CBL

Packing group

: 111 : 128

Emergency Response

Guidebook Number

**DOT NON-BULK** 

Not dangerous goods

Version

Revision Date

: 03/21/2018

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Telefax: +17323295634

Telephone: +17323294600



Product

**BERRY** 

Print Date

03/21/2018

Page 10 (11)

IATA

UN number

: 1197

Description of the goods

; EXTRACTS, FLAVOURING, LIQUID

Class

Packing group

: 111 : 3

ICAO-Labels

: 1197

**IMDG** 

UN number

: EXTRACTS, FLAVOURING, LIQUID

Description of the goods

: 3

Class Packing group

: 111

IMDG-Labels EmSNumber 1 EmSNumber 2

: 3 : F-E : S-D

Marine pollutant

: no

### SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards

: Fire Hazard

Acute Health Hazard

Reportable Quantity

**HMIS Classification** 

: Health hazard: 3

Chronic Health Hazard: /

Flammability: 2

Physical and chemical hazards: 0

### **SECTION 16. OTHER INFORMATION**

**Further information** 

Version

Revision Date

: 03/21/2018

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Telephone: +17323294600

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Product

BERRY

Print Date

03/21/2018

Page 11 (11)

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Version Revision Date :

: 03/21/2018

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