

# **FW-BPA N&A Butter Pecan Flavor**

Flavor West Manufacturing, LLC.

Version No: **2.1**Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Chemwatch Hazard Alert Code: 2

Issue Date: 04/29/2021
Print Date: 04/29/2021
Initial Date: 04/29/2021
L.GHS.USA.EN

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

# **Product Identifier**

Product name	FW-BPA N&A Butter Pecan Flavor
Synonyms	Not Available
Other means of identification	Not Available

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

Relevant identified	Use according to manufacturer's directions.
uses	Cool docording to manufacturer of directions.

# Details of the manufacturer/importer

Registered company name	Flavor West Manufacturing, LLC.
Address	29400 Hunco Way, Lake Elsinore CA 92530 United States
Telephone	(951) 893-5120
Fax	(714) 276-1621
Website	www.FlavorWest.com
Email	Flavor@FlavorWest.com

# **Emergency telephone number**

Association / Organisation	Chemwatch
Emergency telephone numbers	see below
Other emergency telephone numbers	see below

### **CHEMWATCH EMERGENCY RESPONSE**

Primary Number	Alternative Number 1	Alternative Number 2
877 715 9305	+612 9186 1132	Not Available

Once connected and if the message is not in your prefered language then please dial 01

Una vez conectado y si el mensaje no está en su idioma preferido, por favor marque 02

# **SECTION 2 HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

Version No: 2.1 Page 2 of 11 Issue Date: 04/29/2021 Print Date: 04/29/2021

### FW-BPA N&A Butter Pecan Flavor



**GHS Classification** 

Eye Irritation Category 2A, Skin Sensitizer Category 1

#### Label elements

#### **GHS** label elements



SIGNAL WORD

WARNING

### Hazard statement(s)

H319	Causes serious eye irritation
H317	May cause an allergic skin reaction

### Precautionary statement(s) Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	
P272 Contaminated work clothing should not be allowed out of the workplace.		

# Precautionary statement(s) Response

P363	Wash contaminated clothing before reuse.		
P302+P352	IF ON SKIN: Wash with plenty of water and soap		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.		
P337+P313	If eye irritation persists: Get medical advice/attention.		

# Precautionary statement(s) Storage

# Precautionary statement(s) Disposal

Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### **Substances**

See section below for composition of Mixtures

# **Mixtures**

CAS No	%[weight]	Name
57-55-6	85-90	propylene glycol
4940-11-8	1-5	ethyl maltol
765-70-8	1-5	3-methyl-1,2-cyclopentanedione
121-33-5	1-5	vanillin
100-51-6	1-5	benzyl alcohol

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

### **SECTION 4 FIRST AID MEASURES**

Version No: 2.1 Page 3 of 11 Issue Date: 04/29/2021 Print Date: 04/29/2021

#### FW-BPA N&A Butter Pecan Flavor

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  Wash out immediately with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasional lifting the upper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.			
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.			
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>			
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>			

### Indication of any immediate medical attention and special treatment needed

- Polyethylene glycols are generally poorly absorbed orally and are mostly unchanged by the kidney.
- Dermal absorption can occur across damaged skin (e.g. through burns) leading to increased osmolality, anion gap metabolic acidosis, elevated calcium, low ionised calcium, CNS depression and renal failure.
- Treatment consists of supportive care.

[Ellenhorn and Barceloux: Medical Toxicology]

Propylene glycol is primarily a CNS depressant in large doses and may cause hypoglycaemia, lactic acidosis and seizures.

- The usual measures are supportive care and decontamination (Ipecac/ lavage/ activated charcoal/ cathartics), within 2 hours of exposure should suffice.
- Check the anion gap, arterial pH, renal function and glucose levels.

Ellenhorn and Barceloux: Medical Toxicology

### **SECTION 5 FIREFIGHTING MEASURES**

### **Extinguishing media**

- ▶ Alcohol stable foam.
- Dry chemical powder.
- ▶ BCF (where regulations permit).
- ▶ Carbon dioxide.

## Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

### Advice for firefighters

#### ▶ Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Fire Fighting ▶ Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Combustible. Slight fire hazard when exposed to heat or flame. Fire/Explosion Hazard ▶ Heating may cause expansion or decomposition leading to violent rupture of containers. ▶ On combustion, may emit toxic fumes of carbon monoxide (CO).

 Version No: 2.1
 Page 4 of 11
 Issue Date: 04/29/2021

 Print Date: 04/29/2021
 Print Date: 04/29/2021

#### FW-BPA N&A Butter Pecan Flavor

#### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

### Minor Spills

- ▶ Remove all ignition sources.
- ▶ Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- ▶ Control personal contact with the substance, by using protective equipment.

Chemical Class: alcohols and glycols

For release onto land: recommended sorbents listed in order of priority.

#### LAND SPILL - SMALL

cross-linked polymer - particulate	1	shovel	shovel	R, W, SS
cross-linked polymer - pillow	1	throw	pitchfork	R, DGC, RT
sorbent clay - particulate	2	shovel	shovel	R,I, P
wood fiber - pillow	3	throw	pitchfork	R, P, DGC, RT
treated wood fiber - pillow	3	throw	pitchfork	DGC, RT
foamed glass - pillow	4	throw	pichfork	R, P, DGC, RT

#### LAND SPILL - MEDIUM

### **Major Spills**

cross-linked polymer - particulate	1	blower	skiploader	R,W, SS
polypropylene - particulate	2	blower	skiploader	W, SS, DGC
sorbent clay - particulate	2	blower	skiploader	R, I, W, P, DGC
polypropylene - mat	3	throw	skiploader	DGC, RT
expanded mineral - particulate	3	blower	skiploader	R, I, W, P, DGC
polyurethane - mat	4	throw	skiploader	DGC, RT

### Legend

DGC: Not effective where ground cover is dense

R; Not reusable

I: Not incinerable

P: Effectiveness reduced when rainy

RT:Not effective where terrain is rugged

SS: Not for use within environmentally sensitive sites

W: Effectiveness reduced when windy

Reference: Sorbents for Liquid Hazardous Substance Cleanup and Control;

R.W Melvold et al: Pollution Technology Review No. 150: Noyes Data Corporation 1988

Moderate hazard.

- ▶ Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

### **SECTION 7 HANDLING AND STORAGE**

### Precautions for safe handling

# Safe handling

- ▶ DO NOT allow clothing wet with material to stay in contact with skin
- Avoid all personal contact, including inhalation.
- ▶ Wear protective clothing when risk of exposure occurs.
- ▶ Use in a well-ventilated area.
- ▶ Prevent concentration in hollows and sumps.

# Other information

- ▶ Material is hygroscopic, i.e. absorbs moisture from the air. Keep containers well sealed in storage.
- Store in original containers.
- ▶ Keep containers securely sealed.

### Conditions for safe storage, including any incompatibilities

# Suitable container

- ▶ Metal can or drum
- ▶ Packaging as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

Version No: 2.1 Page 5 of 11 Issue Date: 04/29/2021 Print Date: 04/29/2021

#### FW-BPA N&A Butter Pecan Flavor

▶ Glycols and their ethers undergo violent decomposition in contact with 70% perchloric acid. This seems likely to involve formation of the glycol perchlorate esters (after scission of ethers) which are explosive, those of ethylene glycol and 3-chloro-1,2-propanediol being more powerful than glyceryl nitrate, and the former so sensitive that it explodes on addition of water.

#### Alcohols

#### Storage incompatibility

- are incompatible with strong acids, acid chlorides, acid anhydrides, oxidising and reducing agents.
- reacts, possibly violently, with alkaline metals and alkaline earth metals to produce hydrogen
- react with strong acids, strong caustics, aliphatic amines, isocyanates, acetaldehyde, benzoyl peroxide, chromic acid, chromium oxide, dialkylzincs, dichlorine oxide, ethylene oxide, hypochlorous acid, isopropyl chlorocarbonate, lithium tetrahydroaluminate, nitrogen dioxide, pentafluoroguanidine, phosphorus halides, phosphorus pentasulfide, tangerine oil, triethylaluminium, triisobutylaluminium
- ▶ should not be heated above 49 deg.

#### PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

#### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control parameters**

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

Not Available

#### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
propylene glycol	Propylene glycol; (1,2-Propanediol)	30 mg/m3	1300 mg/m3	7900 mg/m3
vanillin	Vanilin	10 mg/m3	10 mg/m3	310 mg/m3
benzyl alcohol	Benzyl alcohol	30 ppm	49 ppm	49 ppm

Ingredient	Original IDLH	Revised IDLH
propylene glycol	Not Available	Not Available
ethyl maltol	Not Available	Not Available
3-methyl- 1,2-cyclopentanedione	Not Available	Not Available
vanillin	Not Available	Not Available
benzyl alcohol	Not Available	Not Available

#### MATERIAL DATA

for propylene glycol:

Saturated vapour concentration @ 20 deg C.= 65.8 ppm, 204.6 mg/m3; i.e higher concentrations can only occur as aerosols or at higher temperatures. Odour Threshold: Practically odourless.

A small number of individuals show skin irritation or sensitisation from repeated or prolonged exposure to propylene glycol. A workplace environmental exposure limit (WEEL) has been established by AIHA and is thought to be protective against systemic effects.

### **Exposure controls**

# Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. **Appropriate** The basic types of engineering controls are: engineering controls Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Personal protection Safety glasses with side shields. Eye and face Chemical goggles.

- protection
- ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.
- See Hand protection below Skin protection

Version No: 2.1 Page 6 of 11 Issue Date: 04/29/2021 Print Date: 04/29/2021

#### FW-BPA N&A Butter Pecan Flavor

Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>NOTE:</li> <li>The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> </ul>
Body protection	See Other protection below
Other protection	<ul><li>▶ Overalls.</li><li>▶ P.V.C. apron.</li><li>▶ Barrier cream.</li></ul>
Thermal hazards	Not Available

### Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

# "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computer-generated selection:

FW-BPA N&A Butter Pecan Flavor

Material	СРІ
BUTYL	С
NATURAL RUBBER	С
NEOPRENE	С
PE/EVAL/PE	С
PVA	С
VITON	С

<sup>\*</sup> CPI - Chemwatch Performance Index

B: Satisfactory; may degrade after 4 hours continuous immersion C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the

glove, a final selection must be based on detailed observation. -

# Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-PAPR-2 P2 ^

#### ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

## Information on basic physical and chemical properties

Appearance	Clear amber		
Physical state	Liquid	Relative density (Water = 1)	1.05
Odour	Characteristic	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	>93.00	Taste	Butter pecan
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available

<sup>\*</sup> Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

Version No: 2.1 Page **7** of **11** Issue Date: 04/29/2021 Print Date: 04/29/2021

# FW-BPA N&A Butter Pecan Flavor

Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 TOXICOLOGICAL INFORMATION**

# Information on toxicological effects

Inhaled	and occasionally, distress.	s classified by EC Directives using animal models).  cially for prolonged periods, may produce respiratory discomfor  his may be accompanied by narcosis, reduced alertness, loss
Ingestion	Accidental ingestion of the material may be damaging to the Ingestion of propylene glycol produced reversible central ner Symptoms included increased heart-rate (tachycardia), exces month child who ingested large doses (7.5 ml/day for 8 days) Excessive repeated ingestions may cause hypoglycaemia (lo individuals; this may result in muscular weakness, incoordinal	vous system depression in humans following ingestion of 60 ml sive sweating (diaphoresis) and grand mal seizures in a 15 as an ingredient of vitamin preparation. w levels of glucose in the blood stream) among susceptible
Skin Contact	health damage following entry through wounds, lesions or abraction. The material may produce moderate skin irritation; limited evictory produces moderate inflammation of the skin in a substantory produces significant, but moderate, inflammation when approach inflammation being present twenty-four hours or most Skin irritation may also be present after prolonged or repeated.	dence or practical experience suggests, that the material either tial number of individuals following direct contact and/or oplied to the healthy intact skin of animals (for up to four hours) are after the end of the exposure period.  Ed exposure; this may result in a form of contact dermatitis diness (erythema) and swelling (oedema) which may progress to
Eye	of individuals and/or is expected to produce significant ocular instillation into the eye(s) of experimental animals. Repeated	or prolonged eye contact may cause inflammation the conjunctiva (conjunctivitis); temporary impairment of vision
Chronic	Practical experience shows that skin contact with the material substantial number of individuals, and/or of producing a positic Limited evidence suggests that repeated or long-term occupation involving organs or biochemical systems.	ive response in experimental animals.
	TOXICITY	IRRITATION

FW-BPA N&A	TOXICITY	IRRITATION
Butter Pecan Flavor	Not Available	Not Available
	TOXICITY	IRRITATION
propylene glycol	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): 100 mg - mild

Version No: 2.1 Page 8 of 11 Issue Date: 04/29/2021 Print Date: 04/29/2021

FW-BPA N&A Butter Pecan Flavor

	[7]	1	
	Oral (rat) LD50: 20000 mg/kgd <sup>[2]</sup>	- ' '	500 mg/24h - mild
			:104 mg/3d Intermit Mod
		Skin(numan)	:500 mg/7days mild
	TOXICITY	IRRITATION	
ethyl maltol	Dermal (rabbit) LD50: >5000 mg/kg <sup>[2]</sup>	Skin (rabbit):	500 mg/24 h-moderate *
	Oral (rat) LD50: 1150 mg/kg* <sup>[2]</sup>		
3-methyl-	TOXICITY		IRRITATION
1,2-cyclopentanedione	Oral (guinea pig) LD50: 1400 mg/kg <sup>[2]</sup>		Not Available
	TOVICITY		IDDITATION
	TOXICITY [1]		IRRITATION
vanillin	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>		Not Available
	Oral (rat) LD50: 1400 mg/kg <sup>[1]</sup>		
	TOXICITY	IRRITATION	
	dermal (rat) LD50: 1000000 ppm/90M <sup>[2]</sup>		t): 0.75 mg open SEVERE
benzyl alcohol	Inhalation (rat) LC50: >4.178 mg/L/4h <sup>[2]</sup>	, ,	: 16 mg/48h-mild
		, ,	
	Oral (rat) LD50: 1560 mg/kg <sup>[2]</sup>	Skili (labbi	t):10 mg/24h open-mild
Legend:	Value obtained from Europe ECHA Registered Substa.     Unless otherwise specified data extracted from RTECS	-	
Legend: PROPYLENE GLYCO	Unless otherwise specified data extracted from RTECS  The material may cause skin irritation after prolong (nonallergic). This form of dermatitis is often charally there may be intercellular gedema of	- Register of Toxic Eff ged or repeated exporacterised by skin redn f the spongy layer (sp	sure and may produce a contact dermatitis ness (erythema) and swelling the epidermis. congiosis) and intracellular oedema of the
	The material may cause skin irritation after prolong (nonallergic). This form of dermatitis is often charal Histologically there may be intercellular oedema of epidermis.  The acute oral toxicity of propylene glycol is very I damage in humans.	- Register of Toxic Eff ged or repeated expo- acterised by skin redn f the spongy layer (sp ow, and large quantit	sure and may produce a contact dermatitis ness (erythema) and swelling the epidermis. congiosis) and intracellular oedema of the
PROPYLENE GLYCO	Unless otherwise specified data extracted from RTECS  The material may cause skin irritation after prolong (nonallergic). This form of dermatitis is often charal Histologically there may be intercellular oedema of epidermis.  The acute oral toxicity of propylene glycol is very I damage in humans.  OL Oral (rat) TDLo: 90000 mg/kg/90d-I * HCA Colours  For certain benzyl derivatives:  All members of this group (benzyl, benzoate and 2 directly to an oxygenated functional group (aldehyderivative). As a stable animal metabolite, benzoice.	ged or repeated exponancerised by skin rednif the spongy layer (spow, and large quantit)  MSDS  -hydroxybenzoate (sade or ester) that is hy acid derivatives are oth aquatic and terrese common metabolic i	sure and may produce a contact dermatitis less (erythema) and swelling the epidermis. congiosis) and intracellular oedema of the lies are required to cause perceptible health alicylate) esters) contain a benzene ring bonder/drolysed and/or oxidised to a benzoic acid efficiently excreted primarily in the urine. strial species. The similarity of their toxicologic pathways.
PROPYLENE GLYCO	The material may cause skin irritation after prolong (nonallergic). This form of dermatitis is often charal Histologically there may be intercellular oedema of epidermis.  The acute oral toxicity of propylene glycol is very lidamage in humans.  Oral (rat) TDLo: 90000 mg/kg/90d-I * HCA Colours  For certain benzyl derivatives: All members of this group (benzyl, benzoate and 2 directly to an oxygenated functional group (aldehy derivative. As a stable animal metabolite, benzoic These reaction pathways have been reported in be properties is a reflection their participation in these Miosis, somnolence, muscle weakness, coma, restubes, uterus, cervix and vagina recorded.  The material may cause skin irritation after prolong (nonallergic). This form of dermatitis is often charal Histologically there may be intercellular oedema of	ged or repeated exponenterised by skin redner of the spongy layer (spow, and large quantity).  MSDS  -hydroxybenzoate (sade or ester) that is hy acid derivatives are oth aquatic and terres a common metabolic priratory stimulation, aged or repeated exponenterised by skin redner of the spongy layer (spowers).	sure and may produce a contact dermatitis less (erythema) and swelling the epidermis. congiosis) and intracellular oedema of the lies are required to cause perceptible health alicylate) esters) contain a benzene ring bonder drolysed and/or oxidised to a benzoic acid efficiently excreted primarily in the urine. Strial species. The similarity of their toxicologic pathways.  maternal effects involving ovaries, fallopian sure and may produce a contact dermatitis less (erythema) and swelling the epidermis. Congiosis) and intracellular oedema of the
PROPYLENE GLYCO ETHYL MALTO VANILL	Unless otherwise specified data extracted from RTECS  The material may cause skin irritation after prolong (nonallergic). This form of dermatitis is often charal Histologically there may be intercellular oedema of epidermis.  The acute oral toxicity of propylene glycol is very lidamage in humans.  Oral (rat) TDLo: 90000 mg/kg/90d-I * HCA Colours  For certain benzyl derivatives: All members of this group (benzyl, benzoate and 2 directly to an oxygenated functional group (aldehyderivative. As a stable animal metabolite, benzoid These reaction pathways have been reported in be properties is a reflection their participation in these Miosis, somnolence, muscle weakness, coma, restubes, uterus, cervix and vagina recorded.  The material may cause skin irritation after prolong (nonallergic). This form of dermatitis is often charal Histologically there may be intercellular oedema of epidermis.  For benzyl alkyl alcohols: Unlike benzylic alcohols, the beta-hydroxyl group metabolic activation.  The following information refers to contact allerge Contact allergies quickly manifest themselves as called the pathogenesis of contact eczema involves a cell-mathogenesis of contact eczema involves a	ged or repeated exponenterised by skin redner of the spongy layer (spow, and large quantity).  MSDS  -hydroxybenzoate (sade or ester) that is hy acid derivatives are second or metabolic period or repeated exponenterised by skin redner of the spongy layer (sport of the members of the members of the sas a group and macontact eczema, more dediated (T lymphocy)	sure and may produce a contact dermatitis ness (erythema) and swelling the epidermis. congiosis) and intracellular oedema of the ies are required to cause perceptible health drolly and or oxidised to a benzoic acid efficiently excreted primarily in the urine. Strial species. The similarity of their toxicologic pathways.  maternal effects involving ovaries, fallopian sure and may produce a contact dermatitis ness (erythema) and swelling the epidermis. Congiosis) and intracellular oedema of the is cluster is unlikely to undergo phase II ay not be specific to this product.  e rarely as urticaria or Quincke's oedema. The tes) immune reaction of the delayed type.
PROPYLENE GLYCO  ETHYL MALTO  VANILL  BENZYL ALCOHO  FW-BPA N&A But  Pecan Flavor & 3-METH'	The material may cause skin irritation after prolong (nonallergic). This form of dermatitis is often charal Histologically there may be intercellular oedema of epidermis.  The acute oral toxicity of propylene glycol is very lidamage in humans.  Oral (rat) TDLo: 90000 mg/kg/90d-I* HCA Colours  For certain benzyl derivatives: All members of this group (benzyl, benzoate and 2 directly to an oxygenated functional group (aldehyderivative. As a stable animal metabolite, benzoid These reaction pathways have been reported in both properties is a reflection their participation in these Miosis, somnolence, muscle weakness, coma, restubes, uterus, cervix and vagina recorded.  The material may cause skin irritation after prolong (nonallergic). This form of dermatitis is often charalletic Histologically there may be intercellular oedema of epidermis.  For benzyl alkyl alcohols: Unlike benzylic alcohols, the beta-hydroxyl group metabolic activation.  The following information refers to contact allerge Contact allergies quickly manifest themselves as a pathogenesis of contact eczema involves a cell-minus cause skin involves a cell-minus contact allergies quickly manifest themselves as a pathogenesis of contact eczema involves a cell-minus cause skin	ged or repeated exponentiated by skin redner of the spongy layer (spow, and large quantity).  MSDS  -hydroxybenzoate (sade or ester) that is hyacid derivatives are been acted at the spongy layer (spow). The spiratory stimulation, and the spongy layer (spow) of the members of the spongy layer (spow) of the members of the spongy layer (spow), involve antibody-members.	sure and may produce a contact dermatitis ness (erythema) and swelling the epidermis. congiosis) and intracellular oedema of the ies are required to cause perceptible health drolly and or oxidised to a benzoic acid efficiently excreted primarily in the urine. Strial species. The similarity of their toxicologic pathways.  maternal effects involving ovaries, fallopian sure and may produce a contact dermatitis ness (erythema) and swelling the epidermis. Congiosis) and intracellular oedema of the is cluster is unlikely to undergo phase II ay not be specific to this product.  e rarely as urticaria or Quincke's oedema. The tes) immune reaction of the delayed type.
PROPYLENE GLYCO  ETHYL MALTO  VANILL  BENZYL ALCOHO  FW-BPA N&A But  Pecan Flavor & 3-METH' 1,2-CYCLOPENTANEDION	The material may cause skin irritation after prolong (nonallergic). This form of dermatitis is often charal Histologically there may be intercellular oedema of epidermis.  The acute oral toxicity of propylene glycol is very I damage in humans.  Oral (rat) TDLo: 90000 mg/kg/90d-I * HCA Colours  For certain benzyl derivatives: All members of this group (benzyl, benzoate and 2 directly to an oxygenated functional group (aldehy derivative. As a stable animal metabolite, benzoic These reaction pathways have been reported in be properties is a reflection their participation in these Miosis, somnolence, muscle weakness, coma, restubes, uterus, cervix and vagina recorded.  The material may cause skin irritation after prolong (nonallergic). This form of dermatitis is often charal Histologically there may be intercellular oedema of epidermis.  For benzyl alkyl alcohols: Unlike benzylic alcohols, the beta-hydroxyl group metabolic activation.  The following information refers to contact allerge Contact allergies quickly manifest themselves as a pathogenesis of contact eczema involves a cell-mother allergic skin reactions, e.g. contact urticarial	ged or repeated exponenterised by skin redner of the spongy layer (spow, and large quantity).  MSDS  -hydroxybenzoate (sade or ester) that is hy acid derivatives are second or metabolic period or repeated exponenterised by skin redner of the spongy layer (sport of the members of the members of the sas a group and macontact eczema, more dediated (T lymphocy)	sure and may produce a contact dermatitis less (erythema) and swelling the epidermis. congiosis) and intracellular oedema of the lies are required to cause perceptible health alicylate) esters) contain a benzene ring bonder drolysed and/or oxidised to a benzoic acid efficiently excreted primarily in the urine. Strial species. The similarity of their toxicologic pathways.  In maternal effects involving ovaries, fallopian sure and may produce a contact dermatitis less (erythema) and swelling the epidermis. Congiosis) and intracellular oedema of the lis cluster is unlikely to undergo phase II applies to this product.  The erarely as urticaria or Quincke's oedema. The test immune reaction of the delayed type.

Version No: 2.1 Page 9 of 11 Issue Date: 04/29/2021 Print Date: 04/29/2021

### FW-BPA N&A Butter Pecan Flavor

Serious Eye Damage/Irritation	<b>~</b>	STOT - Single Exposure	0
Respiratory or Skin sensitisation	<b>~</b>	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0

Legend:

✓ – Data required to make classification available

★ - Data available but does not fill the criteria for classification

Not Available to make classification

### **CMR STATUS**

Not Applicable

# **SECTION 12 ECOLOGICAL INFORMATION**

## **Toxicity**

## NOT AVAILABLE

Ingredient	Endpoint	Test Duration	Effect	Value	Species	BCF
propylene glycol	Not Available					
ethyl maltol	Not Available					
3-methyl- 1,2-cyclopentanedione	Not Available					
vanillin	Not Available					
benzyl alcohol	Not Available					

Propylene glycol is known to exert high levels of biochemical oxygen demand (BOD) during degradation in surface waters. This process can adversely affect aquatic life by consuming oxygen needed by aquatic organisms for survival. Large quantities of dissolved oxygen (DO) in the water column are consumed when microbial populations decompose propylene glycol.

Sufficient dissolved oxygen levels in surface waters are critical for the survival of fish, macro-invertebrates, and other aquatic organisms.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
propylene glycol	LOW	LOW
ethyl maltol	HIGH	HIGH
3-methyl- 1,2-cyclopentanedione	LOW	LOW
vanillin	LOW	LOW
benzyl alcohol	LOW	LOW

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
propylene glycol	LOW (BCF = 1)
ethyl maltol	LOW (LogKOW = 1.787)
3-methyl- 1,2-cyclopentanedione	LOW (LogKOW = 1.288)
vanillin	LOW (LogKOW = 1.21)
benzyl alcohol	LOW (LogKOW = 1.1)

# Mobility in soil

Ingredient	Mobility
propylene glycol	HIGH (KOC = 1)
ethyl maltol	LOW (KOC = 10)
3-methyl- 1,2-cyclopentanedione	HIGH (KOC = 1)
vanillin	LOW (KOC = 38.45)
benzyl alcohol	LOW (KOC = 15.66)

Version No: 2.1 Page 10 of 11 Issue Date: 04/29/2021 Print Date: 04/29/2021

#### FW-BPA N&A Butter Pecan Flavor

**SECTION 13 DISPOSAL CONSIDERATIONS** 

#### Waste treatment methods

# Product / Packaging disposal

- ▶ Containers may still present a chemical hazard/ danger when empty.

# ▶ Return to supplier for reuse/ recycling if possible.

- Otherwise:
- ▶ If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

### **SECTION 14 TRANSPORT INFORMATION**

#### **Labels Required**

**Marine Pollutant** 

NO

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

Source	Ingredient	Pollution Category
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	benzyl alcohol	Y

# **SECTION 15 REGULATORY INFORMATION**

# Safety, health and environmental regulations / legislation specific for the substance or mixture

propylene glycol(57-55-6) is found on the following regulatory lists	"US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)","US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values","US AIHA Workplace Environmental Exposure Levels (WEELs)","US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants","US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
ethyl maltol(4940-11-8) is found on the following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
3-methyl- 1,2-cyclopentanedione(765-70-8) is found on the following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
vanillin(121-33-5) is found on the following regulatory lists	"US AIHA Workplace Environmental Exposure Levels (WEELs)", "US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
benzyl alcohol(100-51-6) is found on the following regulatory lists	"US AIHA Workplace Environmental Exposure Levels (WEELs)", "US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Y
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y
Korea - KECI	Υ
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y

 Version No: 2.1
 Page 11 of 11
 Issue Date: 04/29/2021

 Print Date: 04/29/2021
 Print Date: 04/29/2021

#### FW-BPA N&A Butter Pecan Flavor

Legend:

Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

# **SECTION 16 OTHER INFORMATION**

### Other information

### Ingredients with multiple cas numbers

Name	CAS No
3-methyl- 1,2-cyclopentanedione	765-70-8, 80-71-7

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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TEL (+61 3) 9572 4700.