

FW-PIL Natural Lemonade (Pink) Flavor

Flavor West Manufacturing, LLC.

Version No: **2.2**Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Chemwatch Hazard Alert Code: 3

Issue Date: 05/21/2021

Print Date: 05/21/2021 Initial Date: 05/21/2021 L.GHS.USA.EN

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

Product Identifier

Product name	FW-NLEM Natural Lemonade (Pink) Flavor					
Synonyms	vailable					
Proper shipping name	racts, flavoring, liquid					
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	ose according to manufacturer a directions.

Details of the manufacturer/importer

Registered company name	Flavor West Manufacturing, LLC.					
Address	unco 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: 2.2
 Page 2 of 11
 Issue Date: 05/21/2021

 Print Date: 05/21/2021
 Print Date: 05/21/2021

FW-PIL Natural Lemonade (Pink) Flavor



GHS Classification

Skin Sensitizer Category 1, Eye Irritation Category 2A, Flammable Liquid Category 2

Label elements

GHS label elements





SIGNAL WORD

DANGER

Hazard statement(s)

H317	lay cause an allergic skin reaction			
H319	causes serious eye irritation			
H225	Highly flammable liquid and vapour			

Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.				
P233	Keep container tightly closed.				
P280	Wear protective gloves/protective clothing/eye protection/face protection.				
P240	Ground/bond container and receiving equipment.				
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.				
P242	Use only non-sparking tools.				
P243	Take precautionary measures against static discharge.				
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.
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam for extinction.
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.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Precautionary statement(s) Storage

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

Precautionary statement(s) Disposal P501 Dispose of content

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

 Version No: 2.2
 Issue Date: 05/21/2021

 Print Date: 05/21/2021

FW-PIL Natural Lemonade (Pink) Flavor

CAS No	%[weight]	Name
102-76-1	80-89	glyceryl triacetate
64-17-5	10-19	ethanol
8008-56-8*	5-9	lemon oil

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

SECTION 4 FIRST AID MEASURES

Description of	first aid	measures
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Eye Contact	If this product comes in contact with the eyes: Number 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 occasionally 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 or hair contact occurs: ► Flush skin and hair with running water (and soap if available). ► Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- 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

Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- ▶ May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves in the event of a fire.
- ▶ Prevent, by any means available, spillage from entering drains or water course.

Fire/Explosion Hazard

- ▶ Liquid and vapour are highly flammable.
- ▶ Severe fire hazard when exposed to heat, flame and/or oxidisers.
- Vapour may travel a considerable distance to source of ignition.
- ▶ Heating may cause expansion or decomposition leading to violent rupture of containers.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills Provide 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. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves.

Issue Date: 05/21/2021 Print Date: 05/21/2021 Version No: 2.2 Page 4 of 11

FW-PIL Natural Lemonade (Pink) Flavor

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

- Containers, even those that have been emptied, may contain explosive vapours.
- ▶ Do NOT cut, drill, grind, weld or perform similar operations on or near containers.

Safe handling

Rags wet / soaked with unsaturated hydrocarbons / drying oils may auto-oxidise; generate heat and, in-time, smoulder and ignite. This is especially the case where oil-soaked materials are folded, bunched, compressed, or piled together - this allows the heat to accumulate or even accelerate the reaction

Oily cleaning rags should be collected regularly and immersed in water, or spread to dry in safe-place away from direct sunlight or stored, immersed, in solvents in suitably closed containers.

Other information

- Store in original containers in approved flame-proof area.
- ▶ No smoking, naked lights, heat or ignition sources.
- ▶ DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
- ▶ Keep containers securely sealed.

Conditions for safe storage, including any incompatibilities

Suitable container

- Glass container is suitable for laboratory quantities
- ▶ Packing as supplied by manufacturer.
- ▶ Plastic containers may only be used if approved for flammable liquid.
- Check that containers are clearly labelled and free from leaks.
- ▶ For low viscosity materials (i): Drums and jerry cans must be of the non-removable head type.

Storage incompatibility

d-Limonene:

- forms unstable peroxides in storage, unless uninhibited; may polymerise
- reacts with strong oxidisers and may explode or combust
- ▶ is incompatible with strong acids, including acidic clays, peroxides, halogens, vinyl chloride and iodine pentafluoride
- flow or agitation may generate electrostatic charges due to low conductivity
- Avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates.

Materials soaked with plant/ vegetable derived (and rarely, animal) oils may undergo spontaneous combustion Many vegetable and animal oils absorb oxygen from the air to form oxidation products. This oxidation process produces

heat and the resultant increase in temperature accelerates the oxidation process.

Drying oils such as linseed, tung, poppy and sunflower oils and semi-drying oils such as soya bean, tall oil, corn, cotton and castor oils all absorb oxygen readily and thus experience the self-heating process.

PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs) - Table Z1	ethanol	Ethyl alcohol (Ethanol)	1900 mg/m3 / 1000 ppm	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	ethanol	Ethanol	Not Available	1000 ppm	Not Available	TLV® Basis: URT irr
US NIOSH Recommended Exposure Limits (RELs)	ethanol	Alcohol, Cologne spirit, Ethanol, EtOH, Grain alcohol	1900 mg/m3 / 1000 ppm	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
glyceryl triacetate	Triacetin; (Triacetyl glycerin)	9 mg/m3	99 mg/m3	590 mg/m3
ethanol	Ethyl alcohol; (Ethanol)	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
glyceryl triacetate	Not Available	Not Available

FW-PIL Natural Lemonade (Pink) Flavor

ethanol	15,000 ppm	3,300 [LEL] ppm
lemon oil	Not Available	Not Available

MATERIAL DATA

For ethanol:

Odour Threshold Value: 49-716 ppm (detection), 101 ppm (recognition)

Eye and respiratory tract irritation do not appear to occur at exposure levels of less than 5000 ppm and the TLV-TWA is thought to provide an adequate margin of safety against such effects. Experiments in man show that inhalation of 1000 ppm caused slight symptoms of poisoning and 5000 ppm caused strong stupor and morbid sleepiness. Subjects exposed to 5000 ppm to 10000 ppm experienced smarting of the eyes and nose and coughing. Symptoms disappeared within minutes.

Exposure controls

Appropriate engineering controls	Care: Atmospheres in bulk storages and even apparently empty tanks may be hazardous by oxygen depletion. Atmosphere must be checked before entry. Requirements of State Authorities concerning conditions for tank entry must be met. Particularly with regard to training of crews for tank entry; work permits; sampling of atmosphere; provision of rescue harness and protective gear as needed Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Personal protection	
Eye and face protection	 Safety glasses with side shields. Chemical goggles. 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.
Skin protection	See Hand protection below
Hands/feet protection	The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Suitability and durability of glove type is dependent on usage.
Body protection	See Other protection below
Other protection	 Overalls. PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit.
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-PIL Natural Lemonade (Pink) Flavor

Material	СРІ
BUTYL	A
NEOPRENE	A
NITRILE	A
NITRILE+PVC	A
PE/EVAL/PE	A
PVC	В
NATURAL RUBBER	С
NATURAL+NEOPRENE	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

 $\ensuremath{\mathsf{C}}\xspace$ Poor to Dangerous Choice for other than short term immersion

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

Respiratory protection

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

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class1	-
up to 50	1000	-	A-AUS / Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	A-2
up to 100	10000	-	A-3
100+			Airline**

* - Continuous Flow ** - Continuous-flow or positive pressure demand A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid

 Version No: 2.2
 Page 6 of 11
 Issue Date: 05/21/2021

 Print Date: 05/21/2021

FW-PIL Natural Lemonade (Pink) Flavor

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

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 light yellow		
7 tppodi direc	orea ngm yenen		
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)	20.78	Taste	Lemonade
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
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	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
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

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

The most common signs of inhalation overexposure to ethanol, in animals, include ataxia, incoordination and drowsiness for those surviving narcosis. The narcotic dose for rats, after 2 hours of exposure, is 19260 ppm.

 Version No: 2.2
 Page 7 of 11
 Issue Date: 05/21/2021

 Print Date: 05/21/2021
 Print Date: 05/21/2021

FW-PIL Natural Lemonade (Pink) Flavor

	Blood concentration:	Effects:			
Ingestion	<1.5 g/l	Mild: Impaired visual acuity, o	coordination and	d reaction time, emotion	onal lability
·	1.5-3.0 g/l	·	incoordination v chycardia, swea and tachypnoe	with impaired objective ating and incontinence	
Skin Contact	Directives using a suitable gloves be Open cuts, abrad Entry into the blo	aterial is not thought to produce adverse health effects or skin irritation following contact (as classified by EC ves using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that le gloves be used in an occupational setting. Cuts, abraded or irritated skin should not be exposed to this material nto the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury armful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably ted.			
Eye	individuals and/or eye(s) of experim Repeated or proloconjunctiva (conj Direct contact of transient injury or	r may produce significant ocular nental animals. onged eye contact may cause in unctivitis); temporary impairmen the eye with ethanol may cause	lesions which a flammation cha it of vision and/o immediate sting peraemia of the	are present twenty-four tracterised by tempora or other transient eye ging and burning with	tation in a substantial number of ur hours or more after instillation i ary redness (similar to windburn) e damage/ulceration may occur. I reflex closure of the lid and teari -body type discomfort may persis
	material may pro	· · · · · · · · · · · · · · · · · · ·	effects; in resp		ast one classification body that th nformation, however, there preser
Chronic	Limited evidence involving organs Long-term exposi other agents. Repeated ingest	suggests that repeated or long-toor biochemical systems. ure to ethanol may result in prog	term occupation gressive liver da nen may advers	amage with fibrosis or	nduce cumulative health effects r may exacerbate liver injury caus nervous system of the developin
	Limited evidence involving organs Long-term exposiother agents. Repeated ingest foetus, producing	suggests that repeated or long-tor biochemical systems. ure to ethanol may result in progetion of ethanol by pregnant wom	term occupation gressive liver da nen may advers as foetal alcoho	amage with fibrosis or ely affect the central I syndrome.	r may exacerbate liver injury caus
Chronic FW-PIL Natural Lemonade (Pink) Flavor	Limited evidence involving organs Long-term exposiother agents. Repeated ingest foetus, producing TOXICITY Not Available	suggests that repeated or long-tor biochemical systems. ure to ethanol may result in progetion of ethanol by pregnant wom	term occupation gressive liver da nen may advers as foetal alcoho	amage with fibrosis or	r may exacerbate liver injury caus
FW-PIL Natural Lemonade (Pink)	Limited evidence involving organs Long-term exposiother agents. Repeated ingest foetus, producing TOXICITY Not Available	suggests that repeated or long-tor biochemical systems. ure to ethanol may result in progetion of ethanol by pregnant wom	term occupation gressive liver da nen may advers as foetal alcoho	amage with fibrosis or ely affect the central Il syndrome.	r may exacerbate liver injury caus
FW-PIL Natural Lemonade (Pink)	Limited evidence involving organs Long-term exposiother agents. Repeated ingest foetus, producing TOXICITY Not Available	suggests that repeated or long-tor biochemical systems. ure to ethanol may result in progetion of ethanol by pregnant wom	term occupation gressive liver da nen may advers as foetal alcoho	amage with fibrosis or ely affect the central Il syndrome.	r may exacerbate liver injury caus
FW-PIL Natural Lemonade (Pink) Flavor	Limited evidence involving organs Long-term exposiother agents. Repeated ingest foetus, producing TOXICITY Not Available	suggests that repeated or long-tor biochemical systems. ure to ethanol may result in progetion of ethanol by pregnant woming effects collectively described a	term occupation gressive liver da nen may advers as foetal alcoho	amage with fibrosis or ely affect the central Il syndrome.	r may exacerbate liver injury caus nervous system of the developin
FW-PIL Natural Lemonade (Pink) Flavor	Limited evidence involving organs Long-term exposiother agents. Repeated ingest foetus, producing TOXICITY Not Available TOXICITY Dermal (rabbit) II Oral (rat) LD50:	suggests that repeated or long-tor biochemical systems. ure to ethanol may result in progetion of ethanol by pregnant woming effects collectively described a	term occupation gressive liver da nen may advers as foetal alcoho	ely affect the central syndrome. RRITATION Not Available	r may exacerbate liver injury caus nervous system of the developin
FW-PIL Natural Lemonade (Pink) Flavor	Limited evidence involving organs Long-term exposiother agents. Repeated ingest foetus, producing TOXICITY Not Available TOXICITY Dermal (rabbit) I Oral (rat) LD50:	suggests that repeated or long-tor biochemical systems. ure to ethanol may result in progetion of ethanol by pregnant women geffects collectively described as _D50: >5000 mg/kg ^[1] >2000 mg/kg ^[1]	term occupation gressive liver da nen may advers as foetal alcoho	ely affect the central syndrome. RRITATION Not Available IRRITATION	r may exacerbate liver injury caus nervous system of the developin IRRITATION [Manufacturer]*
FW-PIL Natural Lemonade (Pink) Flavor glyceryl triacetate	Limited evidence involving organs Long-term exposiother agents. Repeated ingest foetus, producing TOXICITY Not Available TOXICITY Dermal (rabbit) I Oral (rat) LD50: TOXICITY Dermal (rabbit) I	suggests that repeated or long-tor biochemical systems. ure to ethanol may result in progition of ethanol by pregnant woming effects collectively described as LD50: >5000 mg/kg ^[1] >2000 mg/kg ^[1]	term occupation gressive liver da nen may advers as foetal alcoho	ely affect the central syndrome. RRITATION Not Available IRRITATION Eye (rabbit): 500 m	r may exacerbate liver injury caus nervous system of the developin IRRITATION [Manufacturer]*
FW-PIL Natural Lemonade (Pink) Flavor	Limited evidence involving organs Long-term exposiother agents. Repeated ingest foetus, producing TOXICITY Not Available TOXICITY Dermal (rabbit) I Oral (rat) LD50: TOXICITY Dermal (rabbit) I Inhalation (rat) L	suggests that repeated or long-tor biochemical systems. ure to ethanol may result in program to ethanol by pregnant wom geffects collectively described a LD50: >5000 mg/kg ^[1] >2000 mg/kg ^[1] LD50: 17100 mg/kg ^[1] C50: 64000 ppm/4h ^[2]	term occupation gressive liver da nen may advers as foetal alcoho	ely affect the central syndrome. RRITATION Not Available IRRITATION Eye (rabbit): 500 m	r may exacerbate liver injury cause nervous system of the developing IRRITATION [Manufacturer]*
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FW-PIL Natural Lemonade (Pink) Flavor glyceryl triacetate	Limited evidence involving organs Long-term exposother agents. Repeated ingest foetus, producing TOXICITY Not Available TOXICITY Dermal (rabbit) I Oral (rat) LD50: TOXICITY Dermal (rabbit) I Inhalation (rat) L Oral (rat) LD50:	suggests that repeated or long-tor biochemical systems. ure to ethanol may result in program to ethanol by pregnant wom geffects collectively described a LD50: >5000 mg/kg ^[1] >2000 mg/kg ^[1] LD50: 17100 mg/kg ^[1] C50: 64000 ppm/4h ^[2]	term occupation gressive liver da nen may advers as foetal alcoho	ely affect the central syndrome. RRITATION Not Available IRRITATION Eye (rabbit): 500 m Eye (rabbit):100mg Skin (rabbit):20 mg. Skin (rabbit):400 mg.	r may exacerbate liver injury cause nervous system of the developing IRRITATION [Manufacturer]* INSTACTION [Manufacturer]*
FW-PIL Natural Lemonade (Pink) Flavor glyceryl triacetate ethanol	Limited evidence involving organs Long-term exposiother agents. Repeated ingest foetus, producing TOXICITY Not Available TOXICITY Dermal (rabbit) II Oral (rat) LD50: TOXICITY Dermal (rabbit) II Inhalation (rat) L Oral (rat) LD50:	suggests that repeated or long-tor biochemical systems. ure to ethanol may result in program to ethanol by pregnant wom geffects collectively described a LD50: >5000 mg/kg ^[1] >2000 mg/kg ^[1] LD50: 17100 mg/kg ^[1] C50: 64000 ppm/4h ^[2]	term occupation gressive liver da nen may advers as foetal alcoho	ely affect the central syndrome. RRITATION Not Available IRRITATION Eye (rabbit): 500 m Eye (rabbit):100mg Skin (rabbit):20 mg.	r may exacerbate liver injury cause nervous system of the developing IRRITATION [Manufacturer]* INSTACTION [Manufacturer]*

FW-PIL Natural Lemonade (Pink) Flavor

(diPE). The Group E substances often are referred to as "polyol esters" The polyol esters are unique in their chemical characteristics since they lack beta-tertiary hydrogen atoms, thus leading to stability against oxidation and elimination. The fatty acids often range from C5-C10 to as high as C18 (e.g., oleic, stearic, isostearic, tall oil fatty acids) in carbon number and generally are derived from naturally occurring sources. Group E esters may have multiple ester linkages and may include mixed esters derived from different carbon-length fatty acid mixtures.

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.

The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions.

Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	~	STOT - Single Exposure	0
Respiratory or Skin sensitisation	~	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

CMR STATUS

CARCINOGEN ethanol US Environmental Defense Scorecard Suspected Carcinogens IARC|HAZMAP, NTP-C

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

NOT AVAILABLE

Ingredient	Endpoint	Test Duration	Effect	Value	Species	BCF
glyceryl triacetate	Not Available					
ethanol	Not Available					
lemon oil	Not Available					

When ethanol is released into the soil it readily and quickly biodegrades but may leach into ground water; most is lost by evaporation. When released into water the material readily evaporates and is biodegradable.

Ethanol does not bioaccumulate to an appreciable extent.

The material is readily degraded by reaction with photochemically produced hydroxy radicals; release into air will result in photodegradation and wet deposition.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
glyceryl triacetate	LOW	LOW
ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
glyceryl triacetate	LOW (BCF = 1.3)
ethanol	LOW (LogKOW = -0.31)

Mobility in soil

Ingredient

 Version No: 2.2
 Page 9 of 11
 Issue Date: 05/21/2021

 Print Date: 05/21/2021

FW-PIL Natural Lemonade (Pink) Flavor

glyceryl triacetate	LOW (KOC = 48.06)
ethanol	HIGH (KOC = 1)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

Product / Packaging disposal

- ▶ Reduction
- Reuse
- ▶ Recycling
- ▶ Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

SECTION 14 TRANSPORT INFORMATION

Labels Required



Marine Pollutant

NΟ

Land transport (DOT)

UN number	1197
Packing group	II
UN proper shipping name	Extracts, flavoring, liquid
Environmental hazard	No relevant data
Transport hazard class(es)	Class 3
Special precautions for user	Special provisions 149, IB2, T4, TP1, TP8

Air transport (ICAO-IATA/DGR)

	•			
UN number	1197			
Packing group	II	II .		
UN proper shipping name	Extracts, flavouring, liquid			
Environmental hazard	No relevant data			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	3 Not Applicable 3L		
Special precautions for user	Passenger and Cargo	n Qty / Pack	A3 364 60 L 353 5 L Y341 1 L	

FW-PIL Natural Lemonade (Pink) Flavor

Sea transport (IMDG-Code / GGVSee)

Packing group UN proper shipping name Environmental hazard Not Applicable Transport hazard class(es) IMDG Class 3 IMDG Subrisk Not Applicable EMS Number F-E, S-D Special precautions Special precautions for user	UN number	1197
EXTRACTS, FLAVOURING, LIQUID Environmental hazard Not Applicable IMDG Class 3 IMDG Subrisk Not Applicable EMS Number F-E, S-D Special precautions Special provisions Not Applicable	Packing group	II
Transport hazard class(es) IMDG Class 3 IMDG Subrisk Not Applicable EMS Number F-E , S-D Special precautions Special provisions Not Applicable		EXTRACTS, FLAVOURING, LIQUID
Class(es) IMDG Subrisk Not Applicable EMS Number F-E , S-D Special precautions Special provisions Not Applicable	Environmental hazard	Not Applicable
Special precautions Special provisions Not Applicable	•	
Limited Quantities 5 L	Special precautions for user	Special provisions Not Applicable

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	glyceryl triacetate	Z

SECTION 15 REGULATORY INFORMATION

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

glyceryl triacetate(102-76-1) is found on the following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
ethanol(64-17-5) is found on the following regulatory lists	"US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants", "US - Hawaii Air Contaminant Limits", "US - California Permissible Exposure Limits for Chemical Contaminants", "US - Idaho - Limits for Air Contaminants", "US ACGIH Threshold Limit Values (TLV) - Carcinogens", "US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants", "US - Oregon Permissible Exposure Limits (Z-1)", "US - Michigan Exposure Limits for Air Contaminants", "US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Mutagens", "US - Alaska Limits for Air Contaminants", "US NIOSH Recommended Exposure Limits (RELs)", "US - Washington Permissible exposure limits of air contaminants", "US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants", "US - Minnesota Permissible Exposure Limits (PELs)", "US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants", "US ACGIH Threshold Limit Values (TLV)", "US - Wyoming Toxic and Hazardous Substances Table Z1 Limits fo Air Contaminants", "US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory", "US OSHA Permissible Exposure Levels (PELs) - Table Z1", "US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens"
lemon oil(8008-56-8*) is found on the following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"

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

 Version No: 2.2
 Page 11 of 11
 Issue Date: 05/21/2021

 Print Date: 05/21/2021
 Print Date: 05/21/2021

FW-PIL Natural Lemonade (Pink) 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

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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