

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture POWERFUL SOUR TYPE N&A FL
Registration number -
Synonyms None.
Product code CA-1503
Issue date 04-September-2018
Version number 01

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Use in accordance with supplier's recommendations.
Uses advised against No other uses are advised.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name Capella Flavors, Inc.
Address 6155 Corte Del Cedro
 Carlsbad, CA 92011
 United States

Division
Telephone Office 760 650-0200
 Fax n/a

e-mail customerservice@capellaflavors.com
Contact person Not available.

1.4. Emergency telephone number CHEMTREC 800-424-9300
 INTERNATIONAL 703-741-5970

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.

Hazard summary Causes serious eye damage. Causes skin irritation. May cause irritation to the respiratory system. May be irritating to eyes. Occupational exposure to the substance or mixture may cause adverse health effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: LACTIC ACID LIQUID 88% NOP #101, PYRUVIC ACID #179

Hazard pictograms



Signal word Danger

Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements

Prevention
P260 Do not breathe vapour.

P264 Wash thoroughly after handling.
P280 Wear eye protection/face protection.
P280 Wear protective gloves.

Response

P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTRE/doctor.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

Store away from incompatible materials.

Disposal

Dispose of waste and residues in accordance with local authority requirements.

Supplemental label information 1 % of the mixture consists of component(s) of unknown acute oral toxicity. 1 % of the mixture consists of component(s) of unknown acute dermal toxicity. 1 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

2.3. Other hazards

Not a PBT or vPvB substance or mixture. Avoid eye contact or breathing dust, powder, mist or vapor from this product as irritation of the eyes or respiratory tract may result. This product contains ingredients for which the health effects have not been fully evaluated.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
LACTIC ACID LIQUID 88% NOP #101		30 - < 40	79-33-4 201-196-2	-	-	
Classification:	Skin Irrit. 2;H315, Eye Dam. 1;H318					
CITRIC ACID ANHYDROUS	NFI	5 - < 10	77-92-9 201-069-1	-	-	
Classification:	Eye Irrit. 2;H319					
MALIC ACID FINE GRANULAR	NFI	3-<5	6915-15-7 230-022-8	-	-	
Classification:	Eye Irrit. 2;H319					
ACETIC, GLACIAL	#6 NOM	1-<3	64-19-7 200-580-7	-	607-002-00-6	#
Classification:	Flam. Liq. 3;H226, Skin Corr. 1A;H314, Eye Dam. 1;H318					
PROPIONIC ACID	#87	1-<3	79-09-4 201-176-3	-	607-089-00-0	#
Classification:	Flam. Liq. 3;H226, Skin Corr. 1B;H314, Eye Dam. 1;H318					
PYRUVIC ACID	#179	1-<3	127-17-3 204-824-3	-	-	
Classification:	Skin Corr. 1;H314, Eye Dam. 1;H318					
TARTARIC ACID NAT	#1054 NOP	1-<3	1401-55-4 215-753-2	-	-	
Classification:	Aquatic Chronic 3;H412					

Other components below reportable levels 50 - < 60

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).
M: M-factor
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
4.1. Description of first aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
4.2. Most important symptoms and effects, both acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards	No unusual fire or explosion hazards noted.
5.1. Extinguishing media	
Suitable extinguishing media	Alcohol resistant foam. Powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapour. Avoid inhalation of vapour, fumes, dust and/or mist from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Use water spray to reduce vapours or divert vapour cloud drift. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Do not breathe vapour. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits****Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	Ceiling	50 mg/m3
	MAK	20 ppm 25 mg/m3 10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	MAK	31 mg/m3
	STEL	10 ppm 62 mg/m3 20 ppm

Belgium. Exposure Limit Values.

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	STEL	38 mg/m3
	TWA	15 ppm 25 mg/m3 10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	62 mg/m3
	TWA	20 ppm 31 mg/m3 10 ppm

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	STEL	37 mg/m3
	TWA	25 mg/m3
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	62 mg/m3
	TWA	20 ppm 31 mg/m3 10 ppm

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	MAC	25 mg/m3
	MAC	10 ppm 31 mg/m3
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	10 ppm 62 mg/m3
	MAC	20 ppm 10 mg/m3 150 ppm

Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	Ceiling	35 mg/m3	
	TWA	25 mg/m3	
CITRIC ACID ANHYDROUS NFI (CAS 77-92-9)	TWA	4 mg/m3	Dust.
	Ceiling	60 mg/m3	
PROPIONIC ACID #87 (CAS 79-09-4)	Ceiling	60 mg/m3	
	TWA	30 mg/m3	

Denmark. Exposure Limit Values

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	TLV	25 mg/m3
		10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	TLV	31 mg/m3
		10 ppm

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	STEL	25 mg/m3
		10 ppm
	TWA	25 mg/m3
PROPIONIC ACID #87 (CAS 79-09-4)		10 ppm
	STEL	62 mg/m3
	TWA	30 mg/m3
		10 ppm

Finland. Workplace Exposure Limits

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	STEL	25 mg/m3
		10 ppm
	TWA	13 mg/m3
PROPIONIC ACID #87 (CAS 79-09-4)		5 ppm
	STEL	61 mg/m3
	TWA	31 mg/m3
		10 ppm

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	VLE	25 mg/m3
		10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	VLE	62 mg/m3
		20 ppm
	VME	31 mg/m3
		10 ppm

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	TWA	25 mg/m3
		10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	TWA	31 mg/m3
		10 ppm

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	AGW	25 mg/m3
		10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	AGW	31 mg/m3
		10 ppm

Greece. OELs (Decree No. 90/1999, as amended)

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	STEL	37 mg/m3
	TWA	15 ppm 25 mg/m3 10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	60 mg/m3
	TWA	20 ppm 30 mg/m3 10 ppm

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	STEL	25 mg/m3
	TWA	25 mg/m3
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	62 mg/m3
	TWA	31 mg/m3

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	TWA	25 mg/m3
		10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	62 mg/m3
	TWA	20 ppm 31 mg/m3 10 ppm

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	STEL	37 mg/m3	
	TWA	15 ppm 25 mg/m3 10 ppm	
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	62 mg/m3	
	TWA	20 ppm 30 mg/m3 10 ppm	
PROPYLENE GLYCOL NOM NFI (CAS 57-55-6)	TWA	470 mg/m3	Total vapour and particulates.
		10 mg/m3	Particulate.
		150 ppm	Total vapour and particulates.

Italy. Occupational Exposure Limits

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	TWA	25 mg/m3
		10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	62 mg/m3
	TWA	20 ppm 31 mg/m3 10 ppm

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	TWA	25 mg/m3
		10 ppm

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Type	Value
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	62 mg/m3
		20 ppm
	TWA	31 mg/m3
PROPYLENE GLYCOL NOM NFI (CAS 57-55-6)	TWA	10 ppm
		7 mg/m3
TARTARIC ACID NAT #1054 NOP (CAS 1401-55-4)	TWA	1 mg/m3

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	TWA	25 mg/m3
		10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	62 mg/m3
		20 ppm
PROPYLENE GLYCOL NOM NFI (CAS 57-55-6)	TWA	31 mg/m3
		10 ppm
TARTARIC ACID NAT #1054 NOP (CAS 1401-55-4)	TWA	7 mg/m3
		1 mg/m3

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	TWA	25 mg/m3
		10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	62 mg/m3
		20 ppm
	TWA	31 mg/m3
		10 ppm

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	TWA	25 mg/m3
		10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	62 mg/m3
		20 ppm
	TWA	31 mg/m3
		10 ppm

Netherlands. OELs (binding)

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	TWA	25 mg/m3
		10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	62 mg/m3
		20 ppm
	TWA	31 mg/m3

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	TLV	25 mg/m3
		10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	TLV	30 mg/m3
		10 ppm

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value
PROPYLENE GLYCOL NOM NFI (CAS 57-55-6)	TLV	79 mg/m3 25 ppm

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	STEL	50 mg/m3
	TWA	25 mg/m3
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	45 mg/m3
	TWA	30 mg/m3

Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	TWA	25 mg/m3 10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	62 mg/m3 20 ppm
	TWA	31 mg/m3 10 ppm

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	STEL	15 ppm
	TWA	10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	TWA	10 ppm

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	TWA	25 mg/m3 10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	62 mg/m3 20 ppm
	TWA	31 mg/m3 10 ppm

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	TWA	25 mg/m3 10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	62 mg/m3 20 ppm
	TWA	31 mg/m3 10 ppm

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	TWA	25 mg/m3 10 ppm
PROPIONIC ACID #87 (CAS 79-09-4)	TWA	31 mg/m3 10 ppm

Spain. Occupational Exposure Limits

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	STEL	37 mg/m3
		15 ppm
	TWA	25 mg/m3
PROPIONIC ACID #87 (CAS 79-09-4)		10 ppm
	STEL	62 mg/m3
	TWA	20 ppm
		31 mg/m3
		10 ppm

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	STEL	25 mg/m3
		10 ppm
	TWA	13 mg/m3
PROPIONIC ACID #87 (CAS 79-09-4)		5 ppm
	Ceiling	62 mg/m3
	TWA	20 ppm
		30 mg/m3
		10 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	STEL	50 mg/m3
		20 ppm
	TWA	25 mg/m3
PROPIONIC ACID #87 (CAS 79-09-4)		10 ppm
	STEL	60 mg/m3
	TWA	20 ppm
		30 mg/m3
		10 ppm

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
PROPIONIC ACID #87 (CAS 79-09-4)	STEL	46 mg/m3	
		15 ppm	
	TWA	31 mg/m3	
PROPYLENE GLYCOL NOM NFI (CAS 57-55-6)		10 ppm	
	TWA	474 mg/m3	Total vapour and particulates.
		10 mg/m3	Particulate.
		150 ppm	Total vapour and particulates.

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
ACETIC, GLACIAL #6 NOM (CAS 64-19-7)	TWA	25 mg/m3
		10 ppm
	STEL	62 mg/m3
PROPIONIC ACID #87 (CAS 79-09-4)		20 ppm
	TWA	31 mg/m3
		10 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).**Recommended monitoring procedures** Follow standard monitoring procedures.**Derived no effect levels (DNELs)** Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

General information

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

- Hand protection

Wear appropriate chemical resistant gloves.

- Other

Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls

Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state

Liquid.

Form

Liquid.

Colour

Not available.

Odour

Not available.

Odour threshold

Not available.

pH

Not available.

Melting point/freezing point

-59 °C (-74,2 °F) estimated

Initial boiling point and boiling range

188,2 °C (370,76 °F) estimated

Flash point

> 93,3 °C (> 200,0 °F) Closed cup

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not available.

Flammability limit - upper (%)

Not available.

Vapour pressure

0,14 hPa estimated

Vapour density

Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature

371,11 °C (700 °F) estimated

Decomposition temperature

Not available.

Viscosity

Not available.

Explosive properties

Not explosive.

Oxidising properties

Not oxidising.

9.2. Other information	
Refractive index	1,4135 - 1,4435
Specific gravity	1,11 - 1,14

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

11.1. Information on toxicological effects

Acute toxicity	Not known.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.
Skin sensitisation	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.
Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)	Not listed.
IARC Monographs. Overall Evaluation of Carcinogenicity	
TARTARIC ACID NAT	#1054 NOP (CAS 1401-55-4) 3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Mixture versus substance information	No information available.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity	Based on available data, the classification criteria are not met for hazardous to the aquatic environment.
12.2. Persistence and degradability	
12.3. Bioaccumulative potential	

Partition coefficient

n-octanol/water (log Kow)			
ACETIC, GLACIAL	#6	NOM	-0,17
PROPIONIC ACID	#87		0,33

Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not established.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I, as amended

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ACETIC, GLACIAL #6 NOM (CAS 64-19-7)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended. Additional information is given in the Safety Data Sheet.

National regulations

Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information**List of abbreviations**

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Revision information

Product and Company Identification: Physical States
Composition / Information on Ingredients: Disclosure Overrides

Training information

Follow training instructions when handling this material.

Disclaimer

Capella Flavors, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.