

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME	APPLE FLAVOR (Powder)
PRODUCT CODE	2000
SUPPLIER	MEDISCA Inc. Tel.: 1.800.932.1039 Fax.: 1.855.850.5855 661 Route 3, Unit C, Plattsburgh, NY, 12901 6641 N. Belt Line Road, Suite 130, Irving, TX, 75063 MEDISCA Pharmaceutique Inc. Tel.: 1.800.665.6334 Fax.: 514.338.1693 4509 Rue Dobrin, St. Laurent, QC, H4R 2L8 21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2 MEDISCA Australia PTY LTD Tel.: 1.300.786.392 Fax.: 61.2.9700.9047 Unit 7, Heritage Business Park 5-9 Ricketty Street, Mascot, NSW 2020
EMERGENCY PHONE	CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 NSW Poisons Information Centre: 131 126 National Chemical Emergency Centre 44(0)1235239670
USES	Manufacturing and Compounding

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION	Based on available data, the classification criteria are not met.	
PICTOGRAM	Not Applicable	
SIGNAL WORD	Not Applicable	
HAZARD STATEMENT(S)	Causes serious eye damage. May form combustible dust concentrations in air. May cause allergic skin reaction. Harmful if swallowed in large quantities.	
ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS	Repeated exposure may cause skin dryness or cracking.	
PRECAUTIONARY STATEMENT(S)	Prevention	Wear eye and face protection. Wear protective gloves. Wash thoroughly after handling. Avoid breathing dust, fume, gas, mist, vapors, spray. Contaminated work clothing must not be allowed out of the workplace.
	Response	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
	Storage	Not Applicable
	Disposal	Not Applicable

HMIS CLASSIFICATION

Health Hazard

1

Flammability

1

Reactivity

0

Personal Protection

F

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME

Not applicable

BOTANICAL NAME

Not applicable

SYNONYM

Not applicable

CHEMICAL FORMULA

Not applicable

CAS NUMBER

Not applicable

ALTERNATE CAS NUMBER

Not applicable

MOLECULAR WEIGHT

Not applicable

COMPOSITION

CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT
(E)-2-HEXENAL	6728-26-3	229-778-1	1.0-2.5
ACETALDEHYDE	75-07-0	200-836-8	0.1-1.0
ACETIC ACID	64-19-7	200-580-7	0.1-1.0
n-BUTYL ALCOHOL	71-36-3	200-751-6	2.5-10
n-HEXANOL	111-27-3	203-852-3	2.5-10

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

NOTES

INGREDIENTS: MODIFIED FOOD STARCH, MALTODEXTRIN, ARTIFICIAL FLAVOR.

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT

Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.

IN CASE OF SKIN CONTACT

Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

IF SWALLOWED

Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

IF INHALED

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician

SYMPTOMS AND EFFECTS

Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

May form combustible dust concentrations in air.

FLAMMABLE PROPERTIES

May be combustible at high temperature.

HAZARDOUS COMBUSTION PRODUCTS

Under fire conditions, hazardous fumes will be present.

SUITABLE & UNSUITABLE EXTINGUISHING MEDIA

Small fire: dry chemical, CO₂ or water spray. **Large fire:** dry chemical, CO₂, alcohol resistant foam or water spray. Do not get water inside containers.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES
PERSONAL PRECAUTIONS

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

METHODS & MATERIAL FOR CONTAINMENT

On land, sweep or shovel into suitable containers. Minimize generation of dust.

CLEANUP PROCEDURE

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE
PRECAUTIONS FOR SAFE HANDLING

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

CONDITIONS FOR SAFE STORAGE

Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.

STORAGE CONDITIONS

Store in original container, tightly sealed, protected from direct sunlight and moisture.

SPECIFIC END USE(S)

See Section 1

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: (E)-2-HEXENAL CAS #: 6728-26-3

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m ³	ppm	mg/m ³				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Add Country	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A

Chemical Name: ACETALDEHYDE CAS #: 75-07-0

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m ³	ppm	mg/m ³				
OSHA	USA	200	360	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	25	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	18	N/L	N/L	N/L	N/L	N/L	N/A	LOQ
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	20	36	50	91	N/L	N/L	N/A	N/A
HSE	UK	20	37	50(1)	92(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Austria	50	90	50	90	N/L	N/L	N/A	N/A
GESTIS	Belgium	25(1)	46(1)	N/L	N/L	N/L	N/L	N/A	(1) Additional indication "M" means that irritation occurs when the exposure exceeds the limit value or there is a risk of acute poisoning. The work process must be designed in such a way that the exposure never exceeds the limit value. For evaluation, the sampled period should be as short as possible. However, the sampled period shall be long enough to perform a reliable measurement. The measured result shall be related to the considered period.
GESTIS	Canada-Ontario	N/L	N/L	25(1)	N/L	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	Canada-Quebec	N/L	N/L	25(1)	45(1)	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	Denmark	25	45	25(1)	45(1)	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	Finland	N/L	N/L	25(1)	46(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	France	100	180	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Germany-AGS	50	91	50(1) 100(2)	91(1) 182(2)	N/L	N/L	N/A	(1) 15 minutes average value (2) Ceiling limit value
GESTIS	Germany-DFG	50	91	50(1)(2)	91(1)(2)	N/L	N/L	N/A	(1) 15 minutes average value (2) A momentary value of 100 ml/m ³ (180mg/m ³) should not be exceeded.
GESTIS	Hungary	N/L	25	N/L	25	N/L	N/L	N/A	N/A
GESTIS	Ireland	N/L	N/L	25(1)	45(1)	N/L	N/L	N/A	(1) 15 minutes average value

GESTIS	Japan (JSOH)	50(1)	90(1)	N/L	N/L	N/L	N/L	N/A	(1) Occupational exposure limit ceiling: Reference value to the maximal exposure concentration of the substance during a working day
GESTIS	Latvia	N/L	5	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	New Zealand	N/L	N/L	20(1)	36(1)	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	Norway	25	45	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	China	N/L	N/L	N/L	45(1)	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	Poland	N/L	5	N/L	45(1)	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	Romania	50	90	100(1)	180(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Singapore	N/L	N/L	25	45	N/L	N/L	N/A	N/A
GESTIS	South Korea	50	90	150	270	N/L	N/L	N/A	N/A
GESTIS	Spain	N/L	N/L	25	46	N/L	N/L	N/A	N/A
GESTIS	Sweden	25	45	50(1)	90(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Switzerland	50	90	50	90	N/L	N/L	N/A	N/A
GESTIS	The Netherlands	N/L	37	N/L	92	N/L	N/L	N/A	N/A

Chemical Name: ACETIC ACID CAS #: 64-19-7

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m ³	ppm	mg/m ³				
OSHA	USA	10	25	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	10	N/L	15	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	10	25	15(1)	37(1)	N/L	N/L	N/A	(1) 15 minutes average value
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	10	25	15	37	N/L	N/L	N/A	N/A
HSE	UK	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Austria	10(1)	25(1)	20(1)(2)	50(1)	N/L	N/L	N/A	(1) Indicative Occupational Exposure Limit Values, proposal (2) Ceiling limit value (5 minutes)
GESTIS	Belgium	10	25	15(1)	38(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Canada-Ontario	10	N/L	15	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada-Quebec	10	25	15	37	N/L	N/L	N/A	N/A
GESTIS	Denmark	10	25	20	50	N/L	N/L	N/A	N/A
GESTIS	European Union	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value ; Indicative Occupational Exposure Limit Value (IOELV)
GESTIS	Finland	5	13	10(1)	25(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	France	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Germany(AGS)	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Germany(DFG)	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Hungary	N/L	25	N/L	25	N/L	N/L	N/A	N/A
GESTIS	Ireland	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Italy	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Japan (JSOH)	10	25	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Latvia	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	New Zealand	10	25	15	37	N/L	N/L	N/A	N/A
GESTIS	Norway	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	China	N/L	10	N/L	20(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Poland	N/L	25	N/L	50(1)	N/L	N/L	N/A	(1) 15 minutes average value

GESTIS	Romania	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Singapore	10	25	15	37	N/L	N/L	N/A	N/A
GESTIS	South Korea	10	25	15	37	N/L	N/L	N/A	N/A
GESTIS	Spain	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value VLI
GESTIS	Sweden	5	13	10(1)	25(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Switzerland	10	25	20	50	N/L	N/L	N/A	N/A
GESTIS	Turkey	10	25	N/L	N/L	N/L	N/L	N/A	N/A

Chemical Name: n-BUTYL ALCOHOL CAS #: 71-36-3

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m ³	ppm	mg/m ³				
OSHA	USA	100	300	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	20	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	50(1)	150(1)	N/L	N/L	N/A	(1) Ceiling limit value
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	50(1)	152(1)	N/L	N/L	N/A	(1) Ceiling limit value
HSE	UK	N/L	N/L	50	154	N/L	N/L	N/A	N/A
GESTIS	Austria	50	150	200	600	N/L	N/L	N/A	N/A
GESTIS	Belgium	20	62	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada-Ontario	20	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada-Quebec	N/L	N/L	50(1)(2)	152(1)(2)	N/L	N/L	N/A	(1) Skin (2) Ceiling limit value
GESTIS	Denmark	50(1)	150(1)	50(1)(2)	150(1)(2)	N/L	N/L	N/A	(1) Skin (2) Ceiling limit value
GESTIS	Finland	50	150	75(1)	230(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	France	N/L	N/L	50	150	N/L	N/L	N/A	N/A
GESTIS	Germany (AGS)	100	310	100(1)	310(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Germany (DFG)	100	310	100(1)	310(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Hungary	N/L	45	N/L	90	N/L	N/L	N/A	N/A
GESTIS	Ireland	20	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Japan (MHLW)	25	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Japan (JSOH)	50(1)	150(1)	N/L	N/L	N/L	N/L	N/A	(1) Occupational exposure limit ceiling: Reference value to the maximal exposure concentration of the substance during a working day
GESTIS	Latvia	N/L	10	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	New Zealand	N/L	N/L	50(1)	150(1)	N/L	N/L	N/A	(1) Ceiling limit value
GESTIS	Norway	N/L	N/L	25(1)(2)	75(1)(2)	N/L	N/L	N/A	(1) Skin (2) Ceiling limit value
GESTIS	China	N/L	100	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Poland	N/L	50	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Romania	33	100	66(1)	200(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Singapore	N/L	N/L	50	152	N/L	N/L	N/A	N/A
GESTIS	South Korea	20	60	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Spain	20	61	50	154	N/L	N/L	N/A	N/A
GESTIS	Sweden	15	45	30(1)	90(1)	N/L	N/L	N/A	(1) 15 minutes average value

GESTIS	Switzerland	100	310	100(1)	310(1)	N/L	N/L	N/A	(1) 15 minutes average value
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Chemical Name: n-HEXANOL CAS #: 111-27-3

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m ³	ppm	mg/m ³				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Germany(AGS)	25(1)	105(1)	25(1)(2)	105(1)(2)	N/L	N/L	N/A	(1) Inhalable fraction and vapour (2) 15 minutes average value
GESTIS	Romania	36	150	60(1)	250(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Add Country	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A

N/L = Not listed ; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINES

 Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m³
PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. **Thermal Hazards:** For products representing a thermal hazard, appropriate Personal Protective Equipment should be used.

SPECIFIC ENGINEERING CONTROLS

Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
PHYSICAL STATE

Solid

DESCRIPTION

Off-white to white powder with typical odor of apple.

SOLUBILITY

Sparingly soluble in water.

ODOR

Characteristic odor

FLAMMABILITY

May be combustible at high temperature

AUTO-IGNITION TEMPERATURE

Not available

BOILING POINT

Not available

DECOMPOSITION TEMPERATURE

Not available

EVAPORATION RATE

Not available

EXPLOSIVE LIMIT

Not available

FLASH POINT

> 93°C, >199.4°F (closed cup)

log P (OCTANOL-WATER)	Not available	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	MELTING/FREEZING POINT	Not available
ODOR THRESHOLD	Not available	OXIDIZING PROPERTY	Not available	pH	3.20 - 3.80 (10%)
RELATIVE DENSITY (WATER = 1)	Not available	SPECIFIC GRAVITY	Not available	UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available
VAPOR DENSITY (AIR = 1)	Not available	VAPOR PRESSURE	Not available	VISCOSITY	Not available

The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	Not established.
CHEMICAL STABILITY	Stable under recommended storage conditions.
INCOMPATIBLE MATERIALS	Strong oxidants.
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur.
HAZARDOUS POLYMERIZATION	Will not occur.
POSSIBILITY OF HAZARDOUS REACTION	Not established.
CONDITIONS TO AVOID	Moisture, sunlight and extreme temperatures.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	<p>ACETALDEHYDE Oral: Rat: LD50: (mg/kg): 660 Dermal: Rabbit: LD50: (mg/kg): Not available Inhalation: Rat: LC50: (mg /L/4hr): Not available</p> <p>n-HEXANOL Oral: Rat: LD50: (mg/kg): 720 Dermal: Rabbit: LD50: (mg/kg): 1500 Inhalation: Rat: LC50: (mg /L/4hr): Not available</p> <p>N-BUTYL ALCOHOL Oral: Rat: LD50: (mg/kg): 700 Dermal: Rabbit: LD50: (mg/kg): 3402 Inhalation: Rat: LC50: (mg /L/4hr): Not available</p>
SKIN CORROSION/IRRITATION	Due to lack of data the classification is not possible.
SERIOUS EYE DAMAGE/EYE IRRITATION	Based on available data, the classification criteria are not met. Causes serious eye damage.
RESPIRATORY SENSITIZATION	Based on available data, the classification criteria are not met. May cause an allergic reaction.

SKIN SENSITIZATION	Due to lack of data the classification is not possible.
GERM CELL MUTAGENICITY	Due to lack of data the classification is not possible.
CARCINOGENICITY	<p>OSHA ACETALDEHYDE is listed. Based on the compositional information available from the supplier, no other component of this product, present at $\geq 0.1\%$, is listed.</p> <p>NTP ACETALDEHYDE is reasonably anticipated to be a human carcinogen. Based on the compositional information available from the supplier, no other component of this product, present at $\geq 0.1\%$, is listed.</p> <p>IARC ACETALDEHYDE is listed in group 2b (possibly carcinogenic to humans). Based on the compositional information available from the supplier, no other component of this product, present at $\geq 0.1\%$, has been evaluated.</p> <p>California Proposition 65 This product contains the following chemical known to the State of California to cause cancer: ACETALDEHYDE. Based on the compositional information available from the supplier, no other component of this product, present at $\geq 0.1\%$, is listed.</p>
ADDITIONAL CARCINOGENICITY INFORMATION	Due to lack of data the classification is not possible.
REPRODUCTIVE TOXICITY	Due to lack of data the classification is not possible.
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	Due to lack of data the classification is not possible.
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	Due to lack of data the classification is not possible.
ASPIRATION HAZARDS	Due to lack of data the classification is not possible.
SIGNS AND SYMPTOMS OF EXPOSURE	Not expected to present a significant hazard under anticipated conditions of normal use.
POTENTIAL HEALTH EFFECTS	<p>Inhalation May be harmful if inhaled. May cause respiratory tract irritation.</p> <p>Ingestion May be harmful if swallowed in large quantities.</p> <p>Skin May be harmful if absorbed through skin. May cause skin irritation. May cause an allergic reaction.</p> <p>Eyes Causes serious eye damage.</p>

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY	EC50: 48 Hr: Crustacea: (mg/L): Not available LC50: 96 Hr: Fish: (mg/L): Not available EC50: 72 or 96Hr: Algae (or other aqua plants): (mg/L): Not available
PERSISTENCE AND DEGRADABILITY	Not available
BIOACCUMULATIVE POTENTIAL	Not available
MOBILITY IN SOIL	Sparingly soluble in water.
OTHER ADVERSE EFFECTS	Not available
	This product is not intended to be released into the environment

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.
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SECTION 14: TRANSPORT INFORMATION

UN PROPER SHIPPING NAME Not dangerous good
UN NUMBER Not applicable
CLASS Not applicable
PACKING GROUP Not applicable

AUSTRALIA

HAZCHEM Not applicable

EU

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE Not Listed

ENVIRONMENTAL HAZARDS Not available

SPECIAL SHIPPING INFORMATION Not applicable

SECTION 15: REGULATORY INFORMATION
UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CFR Part 355		Pennsylvania	Right-to-know		California Prop 65
			Appendix A	Appendix B		New Jersey	Massachusetts	
ACETALDEHYDE 75-07-0	X	X	N/L	N/L	X	X	X	X
n-BUTYL ALCOHOL 71-36-3	X	X	N/L	N/L	X	X	X	N/L
n-HEXANOL 111-27-3	N/L	N/L	N/L	N/L	X	X	N/L	N/L
ACETIC ACID 64-19-7	N/L	N/L	N/L	N/L	X	X	X	N/L
(E)-2-HEXENAL 6728-26-3	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods Regulation	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors
ACETALDEHYDE 75-07-0	N/L	N/L	Listed as Category II
n-BUTYL ALCOHOL 71-36-3	N/L	N/L	N/L
n-HEXANOL 111-27-3	N/L	N/L	N/L
ACETIC ACID 64-19-7	N/L	Listed as Schedule 2	Listed as Category III
(E)-2-HEXENAL 6728-26-3	N/L	N/L	N/L

N/L = Not Listed

EU REGULATIONS

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	EC 649/2012	EC 2012/118
ACETALDEHYDE 75-07-0	N/L	N/L	N/L	N/L	N/L	N/L	N/L
n-BUTYL ALCOHOL 71-36-3	N/L	N/L	N/L	N/L	N/L	N/L	N/L
n-HEXANOL 111-27-3	N/L	N/L	N/L	N/L	N/L	N/L	N/L
ACETIC ACID 64-19-7	N/L	N/L	N/L	N/L	N/L	N/L	N/L
(E)-2-HEXENAL 6728-26-3	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

SECTION 16: OTHER INFORMATION

REFERENCES

ABBREVIATIONS AND ACRONYMS

Available upon request

ACGIH - American Conference of Governmental Industrial Hygienists; **AIHA WEEL** – American Industrial Hygiene Association Workplace Environment Exposure Levels; **CAESAR** – Computer Assisted Evaluation of industrial chemical Substances According to Regulations; **CAS** – Chemical Abstract Service; **CERCLA** – Comprehensive Environmental Response, Compensation, and Liability Act; **EC50** – Effective Concentration, 50%; **EPA** – Environmental Protection Agency; **GHS** – Global Harmonized System; **HMIS** – Hazardous Materials Information System; **HSE** – Health and Safety Executive; **HSIS** – Hazardous Substances Information System; **IARC** – International Agency for Research on Cancer; **IDLH** - Immediately Dangerous to Life or Health; **IRFMN** – Ready Biodegradability Model; **ISS** – Istituto Superiore Sanità; **LC50** – Lethal Concentration, 50%; **LD50** – Lethal Dose, 50%; **MSHA** - Mine Safety and Health Administration; **NIOSH** – National Institute for Occupational Safety and Health; **NTP** – National Toxicology Program; **OSHA PEL** – Occupational Safety & Health Administration Permissible Exposure Limits; **QSAR** – Quantitative Structure-activity relationship; **REL** - Recommended Exposure Limit; **SARA** – Superfund Amendments and Reauthorization Act; **STEL** – Short Term Exposure Limit; **TLV** – Threshold Limit Value; **TWA** – Time Weighted Average; **WHMIS** – Workplace Hazardous Materials Information System

LAST REVISION

07/2021

SUPERSEDES

06/2018

For a list of changes to the SDS since the last version, please communicate with MEDISCA at www.medisca.com

DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.

SUPPLEMENTARY INFORMATION

For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.