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TAPIOCA PURE

Version 1.9	Revision Date: 11/28/2022	US / Z8	Date of last issue: 08/22/2022 Date of first issue: 03/05/2014		
SECTION	I 1. IDENTIFICATION				
Prod	uct name	: TAPIOC	A PURE		
Man	ufacturer or supplier's	details			
Com	Company name of supplier		Nouryon Surface Chemistry LLC		
Addr	ess		onford Road, Building 1, Suite 500 A 19087		
Telep	phone	: (800) 90	6-9977		
Telef	fax	: (312) 544	1-7188		
	ail address rgency telephone	: : CANUTE	C: +1 613-996-6666 CHEMTREC: +1 800-424-9300		
Reco	ommended use of the	chemical and	restrictions on use		

: Cosmetic additive

SECTION 2. HAZARDS IDENTIFICATION

Recommended use

GHS classification in acc 1910.1200)	GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Combustible dust					
GHS label elements					
Signal Word	: Warning				
Hazard Statements	: If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.				

Other hazards

Dust can form an explosive mixture in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Substance
Substance name	:	TAPIOCA PURE
CAS-No.	:	9005-25-8

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Com	ponents			
Chem	nical name	CAS-No.		Concentration (% w/w)
Starc	h	9005-25-8	}	>= 70 - < 90

Starch 9005-25-8 Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	No hazards which require special first aid measures.
If inhaled	:	Remove to fresh air. Keep patient warm and at rest. Rinse nose and mouth with water.
In case of skin contact	:	Remove contaminated clothing and shoes. Rinse with water.
In case of eye contact	:	Rinse with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known. No information available.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during fire fighting	:	Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.
Hazardous combustion products	:	No hazardous combustion products are known
Further information	:	Standard procedure for chemical fires.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid dust formation. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions	:	No special environmental precautions required.
Methods and materials for containment and cleaning up	:	Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Provide appropriate exhaust ventilation at places where dust is formed. No sparking tools should be used.
Advice on safe handling	:	For personal protection see section 8. Avoid creating dust. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. No special handling advice required.
Conditions for safe storage	:	Store in original container. Keep in a dry place. Store between 40-77°F (5-25°C). Keep container tightly closed.
Materials to avoid	:	No special restrictions on storage with other products.
Further information on storage stability	:	No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Starch	9005-25-8	TWA	10 mg/m3	ACGIH
		TWA	5 mg/m3	NIOSH REL
		(Respirable)	-	
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total	15 mg/m3	OSHA Z-1

OSHA P0

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			dust) TWA (respirable fraction)	5 mg/m3	OSHA Z-1
			TWA (Total dust)	15 mg/m3	OSHA P0

Further occupational exposure limits

Description	Value type (Form of	Control parameters	Basis
	`		
	exposure)		
TAPIOCA PURE	TWA (total	50Million particles per cubic	OSHA Z-3
	dust)	foot	
	TWA (total	15 mg/m3	OSHA Z-3
	dust)	, , , , , , , , , , , , , , , , , , ,	
	TWA	5 mg/m3	OSHA Z-3
	(respirable		
	fraction)		
	TWA	15Million particles per cubic	OSHA Z-3
	(respirable	foot	
	fraction)		
	PEL (Total	10 mg/m3	CAL PEL
	dust)	, , , , , , , , , , , , , , , , , , ,	
	PEL	5 mg/m3	CAL PEL
	(respirable		
	dust fraction)		

TWÁ

(respirable dust fraction)

5 mg/m3

Engineering measures	:	Provide appropriate exhaust ventilation at places where dust
		is formed.

Personal protective equipment

Respiratory protection	:	No personal respiratory protective equipment normally required. In the case of dust, vapor or aerosol formation use respirator with an approved filter. Half mask with a particle filter P2 (EN 143)
Hand protection Material	:	For prolonged or repeated contact use protective gloves.
Eye protection	:	Safety glasses
Hygiene measures	:	General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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A	Appeara	ince	:	powder	
C	Color		:	white	
C	Odor		:	mild	
C	Ddor Th	reshold	:	No data available	
p	H		:	5 - 7 Concentration: 1	%
Ν	Aelting	point/freezing point	:	No data available	
E	Boiling p	ooint/boiling range	:	Not applicable	
F	lash po	bint	:	Not applicable	
E	Evapora	tion rate	:	No data available	
F	lamma	bility (solid, gas)	:		stible dust concentrations in air during ling or other means.
F	lamma	bility (liquids)	:	Not applicable	
S	Self-igni	tion	:	No data available	
		xplosion limit / Upper pility limit	:	No data available	
		xplosion limit / Lower pility limit	:	60,000 mg/m3	
V	/apor p	ressure	:	Not applicable	
F	Relative	vapor density	:	Not applicable	
F	Relative	density	:	No data available	
٢	Density		:	1.5 g/cm3 (77 °F	/ 25 °C)
S	Solubilit Wate	y(ies) er solubility	:	soluble	
	Solut	pility in other solvents	:	No data available	
F	Partition	coefficient: n-	:	No data available	

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oct	anol/water			
Au	toignition temperature	: > 212 °F / >	100 °C	
De	composition temperature	: No data ava	ailable	
Vis	cosity Viscosity, dynamic	: Not applica	ble	
	Viscosity, kinematic	: Not applica	ble	
Ex	plosive properties	: Not explosi	/e	
Ox	idizing properties	: The substa	nce or mixture is not classified as oxidizing.	
Du	st deflagration index (Kst)	: 140 m.b_/s		
Du	st explosion class	: St1		
Mir	nimum ignition energy	: 100 - 300 m	ป	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under normal conditions.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Dust may form explosive mixture in air.
Conditions to avoid	:	None known.
Incompatible materials	:	None known.
Hazardous decomposition	:	No hazardous decomposition products are known.
products Thermal decomposition	:	No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

None known.

Acute toxicity

Not classified based on available information.

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<u>Produ</u> Acute	<u>uct:</u> oral toxicity		at): > 5,000 mg/kg : Information taken from reference works and the		
<u>Comp</u>	oonents:				
Starc Acute	h: oral toxicity		at): > 5,000 mg/kg : Information taken from reference works and the		
	corrosion/irritation assified based on ava	ailable information	٦.		
	us eye damage/eye assified based on ava		٦.		
Resp	iratory or skin sensi	tization			
	sensitization assified based on ava	ailable information	٦.		
-	iratory sensitization assified based on ava		n.		
	cell mutagenicity assified based on ava	ailable informatio	n.		
Carci	nogenicity				
Not cl IARC		ent of this product	n. t present at levels greater than or equal to 0.1% is ble or confirmed human carcinogen by IARC.		
OSH/		No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.			
NTP		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			
-	oductive toxicity	lichic information	_		
	assified based on ava	aliable information	n.		
5101	-single exposure				

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

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on toxicity sified based on ava information : : : ECOLOGICAL IN city : to fish	IFORM	No further data	available.
information <u>:</u> ECOLOGICAL IN city <u>:</u>	IFORM	No further data	available.
: ECOLOGICAL IN city :	IFORM		available.
ECOLOGICAL IN	IFORM		available.
. ECOLOGICAL IN city <u>:</u>	IFORM		available.
city <u>:</u>		IATION	
<u>:</u>	:		
	:		
to fish	:		
		LC50 (Fish): Exposure time: Remarks: No da	
nents:			
to fish	:		
nce and degrada	bility		
<u>:</u>			
adability	:		biodegradable. Test Guideline 301D
ical Oxygen (BOD)	:	Remarks: No da	ata available
nents:			
adability	:	Result: No data	available
ical Oxygen (BOD)	:	Remarks: No data available	
mulative potentia	ıl		
<u>:</u>			
nulation	:	Remarks: Bioad	ccumulation is unlikely.
	o fish nce and degradal dability ical Oxygen (BOD) nents: dability ical Oxygen (BOD) mulative potentia	nce and degradability nce and degradability adability : ical Oxygen : (BOD) ments: ical Oxygen : ical Oxygen : (BOD) mulative potential	to fish : LC50 (Fish): Ex Remarks: No da nce and degradability idability : Result: Readily Method: OECD GLP: yes ical Oxygen : Remarks: No da (BOD) nents: idability : Result: No data ical Oxygen : Remarks: No da (BOD) mulative potential

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	-	nents:			
-	Starch: Bioaccu	mulation	:	Remarks: Bioaccu	umulation is unlikely.
Μ	lobility	/ in soil			
	Produc Aobility		:	Remarks: No data	available
<u>C</u>	Compo	nents:			
-	Starch: /lobility		:	Remarks: No data	available
0	Other a	dverse effects			
	Produc Dzone-I	<u>t:</u> Depletion Potential	:	Protection of Strat Substances Remarks: This pro manufactured with	R Protection of Environment; Part 82 tospheric Ozone - CAA Section 602 Class I oduct neither contains, nor was n a Class I or Class II ODS as defined by the t Section 602 (40 CFR 82, Subpt. A, App.A +
	Addition nforma	al ecological tion	:	None known.	
<u>C</u>	Compo	nents:			
R	Starch: Results Issessr	of PBT and vPvB	:	Bioaccumulation,	not considered to be a PBT (Persistent, Toxic) This substance is not considered to rsistent nor very Bioaccumulating)

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Contaminated packaging	:	Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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SECTION 14. TRANSPORT INFORMATION

International Regulations					
UNRTDG Not regulated as a dangerous go	UNRTDG Not regulated as a dangerous good				
IATA-DGR Not regulated as a dangerous go	IATA-DGR Not regulated as a dangerous good				
IMDG-Code Not regulated as a dangerous go	ood				
•	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.				
Domestic regulation					
49 CFR Not regulated as a dangerous go Reportable Quantity :	ood This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix A.				
Special precautions for user					
Remarks :	Not classified as dangerous in the meaning of transport regulations.				

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Combustible dust	

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
TECI	:	On the inventory, or in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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SECTION 16. OTHER INFORMATION



Full text of other abbreviations

ACGIH CAL PEL		USA. ACGIH Threshold Limit Values (TLV) California permissible exposure limits for chemical contaminants (Title 8, Article 107)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
CAL PEL / PEL	:	Permissible exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely

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Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG -International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL -Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL -International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT -Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA -Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG -United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

see user defined free text

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This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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