

VitroINK COL TheWell Bioscience

Version No: 1.0 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements Issue Date: 01/06/2022 Print Date: 01/30/2024 S.GHS.USA.EN

SECTION 1 Identification

Product Identifier		
Product name	VitroINK COL	
Synonyms	Not Available	
Other means of identification	Not Available	

Recommended use of the chemical and restrictions on use

Relevant identified uses For research use only.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	TheWell Bioscience
Address	675 US Highway 1, Suite 120, North Brunswick, New Jersey 08902 United States
Telephone	1-973-855-4955
Fax	1-973-755-9670
Website	http://www.thewellbio.com
Email	info@thewellbio.com

Emergency phone number

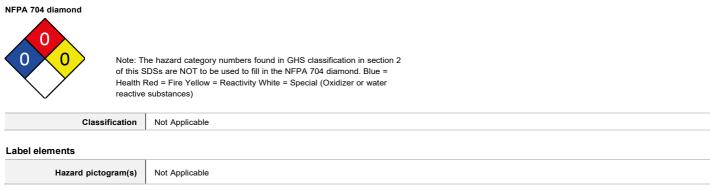
Association / Organisation	TheWell Bioscience
Emergency telephone numbers	USA & Canada: 1-866-332-3357
Other emergency telephone numbers	Outside USA & Canada: 1-973-855-495

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

Signal word

Not Applicable



lazard statement(s)			
Not Applicable			
Hazard(s) not otherwise classified			
Not Applicable			
Precautionary statement(s) Prevention			
Not Applicable			
Precautionary statement(s) Response			
Not Applicable			
Precautionary statement(s) Storage			
Not Applicable			
Precautionary statement(s) Disposal			
Not Applicable			
SECTION 3 Composition / information on ingredients			
Substances			
See section below for composition of Mixtures			
See section below for composition of wixtures			
Mixtures			
CAS No %[weight]	Name		

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

Eye Contact	If this product comes in contact with eyes: • Wash out immediately with water. • If irritation continues, 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.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Fire-fighting measures

Extinguishing media

There is no restriction on the type of extinguisher which may be used.
 Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

Special protective equipment and precautions for fire-fighters

Fire Fighting	 Use water delivered as a fine spray to control fire and cool adjacent area. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

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See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment. Prevent spillage from entering drains, sewers or water courses. Recover product wherever possible. Put residues in labelled containers for disposal. If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 Handling and storage

Precautions for safe handling Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with scap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. Other information Vestion State State

Conditions for safe storage, including any incompatibilities

Suitable container	 Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed. None known

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
VitroINK COL	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
VitroINK COL	Not Available		Not Available	

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively
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	Type of Contaminant:			Air Speed:
	solvent, vapours, degreasing etc., evaporating from tank (in still air)		0.25-0.5 m/s (50-100 f/min)	
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)		0.5-1 m/s (100-200 f/min.)	
	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	, conveyer loading, crusher dusts, ga	s discharge (active	1-2.5 m/s (200-500 f/min)
	grinding, abrasive blasting, tumbling, high speed wheel gevery high rapid air motion).	enerated dusts (released at high initia	I velocity into zone of	2.5-10 m/s (500-2000 f/min.)
	Within each range the appropriate value depends on:			
	Lower end of the range	Upper end of the range		
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents		
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity		
	3: Intermittent, low production.	3: High production, heavy use		
	4: Large hood or large air mass in motion	4: Small hood - local control only		
	accordingly, after reference to distance from the contaminat of 1-2 m/s (200-400 f/min.) for extraction of solvents general considerations, producing performance deficits within the ex factors of 10 or more when extraction systems are installed	ited in a tank 2 meters distant from th xtraction apparatus, make it essential	e extraction point. Other n	nechanical
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. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] 			
Skin protection	See Hand protection below			
	Wear general protective gloves, eg. light weight rubber glov The selection of suitable gloves does not only depend on the manufacturer. Where the chemical is a preparation of sever and has therefore to be checked prior to the application. The exact break through time for substances has to be obtat making a final choice. Personal hygiene is a key element of effective hand care. G washed and dried thoroughly. Application of a non-perfumed Suitability and durability of glove type is dependent on usag frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN When prolonged or frequently repeated contact may 240 minutes according to EN 374, AS/NZS 2161.10.1 or nal	te material, but also on further marks ral substances, the resistance of the g ained from the manufacturer of the pr Gloves must only be worn on clean ha d moisturiser is recommended. ge. Important factors in the selection of	glove material can not be otective gloves and has to ands. After using gloves, h of gloves include: ational equivalent).	calculated in advance

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	Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. OTHERWISE: • Overalls. • Barrier cream. • Eyewash unit.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Neutral	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)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	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	Immiscible	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	Product is considered stable and 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 models). Nevertheless, good hygiene practice requires that exposure be occupational setting.		
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.		
Skin Contact	The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives.		
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).		
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.		
VitroINK COL	ΤΟΧΙΟΙΤΥ	IRRITATION	
VILIOINK COL	Not Available Not Available		
		Continued	

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Legend:	1. Value obtained from Europe ECHA Registered Substances specified data extracted from RTECS - Register of Toxic Effec	2	ined from manufacturer's SDS. Unless otherwise
Acute Toxicity	×	Carcinogenicity	×
Acute Toxicity		Carcinogenicity	
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	× s	TOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
	L	•	not available or does not fill the criteria for classification le to make classification

SECTION 12 Ecological information

	Endpoint	Test Duration (hr)	Species	Value	Source
VitroINK CC	L Not Available	Not Available	Not Available	Not Available	Not Available
Legen	V3.12 (QSAR) - Aquatic Toxicity Data (Estimated)	CHA Registered Substances - Ecotoxicologic 9. US EPA, Ecotox database - Aquatic Toxicity 171 (Japan) - Bioconcentration Data 8. Vendor	Data 5. ECETOC Aquatic Hazard	
	V3.12 (QSAR Data 6. NITE) - Aquatic Toxicity Data (Estimated)	. US EPA, Ecotox database - Aquatic Toxicity	Data 5. ECETOC Aquatic Hazard	
Legen ersistence and degradabil Ingredient	V3.12 (QSAR Data 6. NITE	9) - Aquatic Toxicity Data (Estimated) (Japan) - Bioconcentration Data 7. Ml	. US EPA, Ecotox database - Aquatic Toxicity	Data 5. ECETOC Aquatic Hazard	

Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients
Mobility in soil	
Mobility in soil Ingredient	Mobility

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging disposal	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: 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. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 Transport information

Labels Required

Marine Pollutant NO

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

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

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

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Not	App	licable
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Transport in bulk in acc	ordance with the ICG Code	
Product name	Ship Type	

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

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

	No
Explosive N	No
Self-heating N	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas N	No
Corrosive to metal N	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide N	No
Self-reactive N	No
In contact with water emits flammable gas	No
Combustible Dust N	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Reproductive toxicity N	No
Skin Corrosion or Irritation N	No
Respiratory or Skin Sensitization N	No
Serious eye damage or eye irritation N	No
Specific target organ toxicity (single or repeated exposure) N	No
Aspiration Hazard N	No
Germ cell mutagenicity N	No
Simple Asphyxiant N	No
Hazards Not Otherwise Classified N	No

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4) None Reported

State Regulations

US. California Proposition 65 None Reported

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Not Available
Canada - DSL	Not Available
Canada - NDSL	Not Available
China - IECSC	Not Available
Europe - EINEC / ELINCS / NLP	Not Available
Japan - ENCS	Not Available
Korea - KECI	Not Available
New Zealand - NZIoC	Not Available
Philippines - PICCS	Not Available
USA - TSCA	Not Available
Taiwan - TCSI	Not Available
Mexico - INSQ	Not Available
Vietnam - NCI	Not Available

National Inventory	Status
Russia - FBEPH	Not Available
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 Other information

Revision Date			
Initial Date	01/06/2022		
SDS Version Summary			
Version	Date of Update	Sections Updated	

Other information

The 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.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure LimitIARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances