TMB Super Sensitive 1-Component HRP Microwell Substrate SDS; Doc# F17-3324-2-C; Effective: 02/04/19; Supersedes: F17-3324-2-B; Page 1 of 6

TECHNOLOGIES LLC

SAFETY DATA SHEET (SDS) according to Regulation (EC) No. 830/2015 amending 1907/2006

Sectio	n 1: Identification of the substance/mixture and of th	ne company/undertaking	
1.1	Product identifier:	TMB Super Sensitive 1-Component HRP Microwell	
		Substrate	
1.1a	Other means of identification:		
1.1b		SUBS, SUB2	
1.10 1.1c	Alternative product name(s)/ synonyms: Product number/Catalog #(s):	3324, 6275, 6328, 6329, 6700, 6330	
1.1d	Internal identification:	SUBS, SUB2	
1.10	Relevant identified uses of the substance or	For research use only. Not for use in diagnostic procedures.	
	mixture and uses advised against:		
1.2a	Brief description of what the substance or mixture is	For laboratory use.	
	intended to do:		
1.3	Details of the supplier of the SDS:		
1.3a	Name:	ImmunoChemistry Technologies, LLC (ICT)	
1.3b 1.3c	Address:	9401 James Avenue South, Suite 155 Bloomington, MN 55431-2500 USA	
1.30 1.3d	City, State, Zip, Country Phone number:	1-800-829-3194 and 952-888-8788	
1.3u 1.3e	Finite number:	952-888-8988	
1.3f	Website:	www.immunochemistry.com	
1.3g	Email:	help@immunochemistry.com	
1.3h	Contact person at ICT:	Quality Documentation Department	
1.4	Emergency telephone number:	ICT: 1-800-829-3194 (USA & Canada) or 952-888-8788 world wide;	
		ICT hours are 9 am-5 pm central time USA, Monday through Friday	
		(excluding holidays). Chemtrec 24-hour access within USA and	
		Canada: 1-800-424-9300 or +1 703-527-3887. Collect calls accepted.	
Soctio	n 2: Hazards identification		
2.1	Classification of the substance or mixture:		
2.1a	Product is a:	Mixture.	
2.1b	Classification according to (EC) No. 1272/2008	Not classified.	
	{CLP}:		
2.1c	The most important adverse physiochemical, human	Refer to Sections 9-12.	
	health, and environmental effects:		
2.2	Label elements:	•	
2.2a	GHS label elements, including precautionary		
2.2b	statements: Contains:		
2.20 2.2c	Labeling in accordance with (EC) No. 1272/2008:	•	
2.2d	Hazard Pictograms (Hazard Symbols):	None.	
2.2e	Signal word:	None.	
2.2f	Hazard statements:	None.	
2.2g	Precautionary statements:	None.	
2.2h	Supplementary precaution statements:	None.	
2.3	Other hazards:	No additional information available.	
2.3a	Does the chemical meet the criteria for PBT or vPvB?	Not applicable.	
2.3b	Other hazards which do not result in classification:	No additional information available.	
Soctio	n 3: Composition/information on ingradiants		
3.1	n 3: Composition/information on ingredients Substance:	Item is a mixture therefore Section 3.1 is not applicable; see Section	
0.1		3.2.	
3.2	Mixture:	Item is a mixture. Contains no hazardous ingredients at levels	
	The chemical identity and concentration or	requiring disclosure by the OSHA Hazard Communication Standard	
	concentration ranges of all ingredients which are	(29 CFR 1910.1200).	
	hazardous and are present above their cut-off levels:		
	n 4: First aid measures		
4.1	Description of first aid measures:	If exposed or concerned, get medical attention/advice. Show this	
		safety data sheet to the doctor in attendance. Wash contaminated	
		clothing before reuse. Never give anything by mouth to an	
4.1a	Inhalation:	unconscious person. Remove to fresh air and keep at rest in a comfortable position for	
ч .1d		breathing.	
		brodunny.	

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	Skin contact:	Remove affected clothing and wash all exposed skin with water for at	
		least 15 minutes.	
4.1c	Eye contact:	Immediately flush with plenty of water for at least 15 minutes. Remove	
		contact lenses if present and easy to do so. Continue rinsing.	
4.1d	Ingestion:	Rinse mouth thoroughly. Do not induce vomiting without advice from	
		poison control center or medical professional. Get medical attention if	
		you feel unwell.	
4.2	Most important symptoms and effects, both acute	Not expected to present a significant hazard under anticipated	
	and delayed:	conditions of normal use.	
4.2a	Inhalation:	May cause respiratory irritation.	
4.2b	Skin contact:	May cause skin irritation.	
4.2c	Eye contact:	May cause slight temporary irritation.	
4.2d	Ingestion:	May cause gastrointestinal irritation.	
4.3	Indication of any immediate medical attention and special treatment needed:	No additional information available.	
4.3a	Notes to physician/first responder:	Treat symptomatically.	
Sectio	on 5: Firefighting measures		
5.1	Extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.	
5.1a	Suitable extinguishing media:	Foam. Carbon dioxide. Dry powder. Water spray. Sand.	
5.1b	Unsuitable extinguishing media:	None known.	
5.2	Special hazards arising from the substance or mixture:	This product is not flammable. Product is not explosive. No dangerous reactions known under normal conditions of use.	
5.00			
5.2a	Hazardous combustion products:	Toxic gases and vapors may be released if involved in a fire.	
5.2b	Unusual fire & explosion hazards:	No unusual fire or explosion hazards noted.	
5.2c	Protective measures in fire:	Do not enter fire area without proper protective equipment, including	
		respiratory protection. Wear self-contained breathing apparatus and	
	Advise for finding for	protective suit (see Section 8).	
5.3	Advice for firefighters:	Keep away from heat, hot surfaces, sparks, open flames and other	
	On a sightfine fight time	ignition sources. No smoking.	
5.3a	Special firefighting procedures:	Use water spray or fog for cooling exposed containers. Exercise	
		caution when fighting any chemical fire. Do not dispose of fire-fighting	
		water in the environment.	
5.3b	Special protective equipment and precautions for	Do not enter fire area without proper protective equipment, including	
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Γ

8.1	n 8: Exposure controls/personal protection Control parameters:	
8.1a	Occupational exposure limits, such as chemical identity, standard, TWA-8 hours (time weighted average), STEL-15 minutes (short term exposure limit), etc.: WEL = Workplace Exposure Limit. Sk = can be absorbed through skin.	No data available.
8.1b	Appropriate engineering controls:	Ensure adequate ventilation, especially in confined areas.
8.1c	Individual protection measures, such as personal protective equipment:	Wear gloves. Wear protective goggles. Wear labcoat with full coverag clothing.
8.1d	Safety symbols:	
8.2	Exposure controls:	
8.2a	Process conditions:	Provide eyewash station.
8.2b	Engineering controls:	Local exhaust ventilation is recommended for providing adequate ventilation. Ensure that eyewash stations and safety showers are proximal to the workstation location.
8.2c	Ventilation controls:	Provide adequate ventilation.
8.2d	Reference to other sections:	Refer to Section 5 for additional information.
8.2e	Eye/face protection:	Chemical goggles or safety glasses.
8.2f	Skin protection:	Wear suitable protective clothing. Wear long sleeves.
8.2g	Hand protection:	Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.
8.2h	Respiratory equipment:	Where excessive vapor, mist, or dust may result, use NIOSH approve respiratory protection equipment.
8.2i	Other protection:	Wear appropriate clothing to prevent any possibility of skin contact.
8.2j	Hygiene measures:	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shi and before eating, smoking, and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink, or smoke. Wash promptly with soap and water if skin becomes contaminated.
8.2k	Thermal hazards:	None known.
8.21	Environmental exposure controls:	Not determined.
Santia	n 9: Physical and chemical properties	
9.1	Information on basic physical and chemical properties:	
9.1a	Appearance (physical state, color, etc.):	Colorless to pale yellow liquid.
9.1b	Odor:	No specific data.
9.1c	Odor threshold:	No data available.
9.1d	pH:	3.5-3.9
9.1e	Melting point/freezing point (°C):	No data available.
9.1f 9.1g	Initial boiling point and boiling range: Flash point (°C):	No data available. No data available.
9.1g 9.1h	Evaporation rate:	No data available.
9.11 9.1i	Flammability (solid, gas):	Not flammable.
9.1j	Upper/lower flammability or explosive limits:	Product is not explosive.
9.1k	Vapor pressure:	No data available.
9.11	Vapor density (Air =1):	No data available.
9.1m	Relative density:	1.01 (H ₂ O = 1.0)
9.1n	Solubility(ies):	Water: 100%
9.10	Partition coefficient (N-octanol/water):	No data available.
	Auto-ignition temperature (°C):	No data available.
9.1p		No data available.
9.1p 9.1q	Decomposition temperature (°C):	
9.1p 9.1q 9.1r	Viscosity:	No data available.
9.1p 9.1q 9.1r 9.1s	Viscosity: Explosive properties:	No data available. Not explosive.
9.1p 9.1q 9.1r 9.1s 9.1t	Viscosity: Explosive properties: Oxidizing properties:	No data available. Not explosive. Not an oxidizer
9.1p 9.1q 9.1r 9.1s 9.1t 9.2	Viscosity: Explosive properties: Oxidizing properties: Other information:	No data available. Not explosive.
9.1p 9.1q 9.1r 9.1s 9.1t 9.2 9.2a	Viscosity: Explosive properties: Oxidizing properties:	No data available. Not explosive. Not an oxidizer No additional information available.

TMB Super Sensitive 1-Component HRP Microwell Substrate SDS; Doc# F17-3324-2-C; Effective: 02/04/19; Supersedes: F17-3324-2-B; Page 4 of 6 10.2 Chemical stability: Stable under recommended handling and storage conditions (see

10.2	Chemical Stability.	Stable under recommended nandling and storage conditions (see
		Section 7).
10.3	Possibility of hazardous reactions:	None known.
10.4	Conditions to avoid:	Light. Elevated temperatures. Moisture.
10.5	Incompatible materials:	Strong oxidizing agents. Metals.
10.6	Hazardous decomposition products:	Thermal decomposition generates : Carbon oxides (CO, CO ₂).
		Nitrogen oxides.

Section	n 11: Toxicological information		
11.1	Information on toxicological effects:		
11.1a	Name:	TMB Super Sensitive 1-Component HRP Microwell Substrate	
11.1b	Acute toxicity:	Not classified.	
11.1c	Skin corrosion/irritation:	Not classified. pH: 3.5-3.9	
11.1d	Serious eye damage/irritation:	Not classified. pH: 3.5-3.9	
11.1e	Respiratory or skin sensitization:	Not classified.	
11.1f	Germ cell mutagenicity:	Not classified.	
11.1g	Carcinogenicity:	Not classified.	
11.1h	Reproductive toxicity:	Not classified.	
11.1i	STOT-single exposure:	Not classified.	
11.1j	STOT-repeated exposure:	Not classified.	
11.1k	Aspiration hazard:	Not classified.	
11.11	Information on the likely routes of exposure		
	(inhalation, ingestion, skin and eye contact):		
11.1m	Ingestion:	May cause gastrointestinal irritation.	
11.1n	Inhalation:	May cause respiratory irritation.	
11.10	Skin contact:	May cause skin irritation.	
11.1p	Eye contact:	May cause slight temporary irritation.	
11.1q	Symptoms related to the physical, chemical and	No specific symptoms noted.	
	toxicological characteristics:		
11.1r	Delayed and immediate effects as well as chronic effects from short and long term exposure:	Not determined.	
11.1s	Numerical measures of toxicity (such as acute	Not determined.	
	toxicity estimates):		
11.1t	Interactive effects:	Not determined.	
11.1u	Absence of specific data:	Not applicable.	
11.1v	Mixtures:	See Section 3 for any substances in the mixture	
11.1w	Mixture vs. substance information:	See Section 3 for any substances in the mixture	
11.1x	Classification by National Toxicity Program (NTP):	Not classified.	
11.1y	Classification by International Agency for Research	Not classified.	
	on Cancer (IARC):		
11.1z	Classification by OSHA 13:	Not classified.	
11.1ab	Other information:	None.	
Section	n 12: Ecological information		
12.1	Toxicity:		
12.1a	Name:	TMB Super Sensitive 1-Component HRP Microwell Substrate.	
12.1b	Ecotoxicity (aquatic and terrestrial, where available):	No information available.	
12.2	Persistence and degradability:	No information available.	
12.3	Bioaccumulative potential:	No information available.	
12.4	Mobility in soil:	No information available.	
12.5	Results of PBT and vPvB assessment:	No information available.	
12.6	Other adverse effects:	No data available.	
12.0			
	n 13: Disposal considerations	T	
13.1	Waste treatment methods:	When handling waste, consideration should be made to the safety	
		precautions applying to handling of the product.	
13.1a	Description of waste residues and information on	Obtain the consent of pollution control authorities before discharging to	
	their safe handling and methods of disposal,	wastewater treatment plants. Observe all federal, state and local laws	
	including the disposal of any contaminated	when considering most appropriate disposal method. Contact a	
	packaging:	licensed professional waste disposal service to dispose of this	
		material. Dispose in a safe manner in accordance with local/national	
		regulations. Do not allow the product to be released into the environment.	
Castle			
Section 14.1	n 14: Transport information UN number:	Not applicable.	
14.2	UN proper shipping name:	Not applicable.	
14.3	Transport hazard class(es):	Not hazardous for transport in accordance with DOT.	
14.3	Packing group:	Not applicable.	

14.5a	Is it environmentally dangerous according to UN	No.
	Model Regulations (IMDG Code, ADR, RID, and ADN)?:	
14.5b	Is it a marine pollutant according to the IMDG code?:	No.
14.6	Special precautions for user:	None.
14.7	Transport in bulk according to Annex II of MARPOL and the IBC code:	Not applicable.
14.7a	Other information:	None.
14.7b	Classification for other modes of transport:	Not classified
Sectior	n 15: Regulatory information	
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture:	•
15.1a	Regional safety, health and environmental regulations specific for the product in question:	All chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory. All the constituents of this preparation are registered in the EINECS inventory or in the ELINCS list. Canada: No additional information available.
15.1b	USA SARA Components (such as 302/311/313):	This product is not listed in the SARA (Superfund Amendments and Reauthorization Act).
15.1c	USA Massachusetts Right to Know:	No components are subject to the Massachusetts Right to Know Act.
15.1d	USA Pennsylvania Right to Know:	No components are subject to the USA Pennsylvania Right to Know list.
15.1e	USA New Jersey Right to Know:	No components are subject to the USA New Jersey Right to Know list.
15.1f	USA California Prop. 65 Components:	This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.
15.1g	EU Regulation 1907/2006 {REACH}:	The product nor any components are identified.
15.1h	Annex XIV substances subject to authorization:	The product nor any components are identified.
15.1i	Substances of very high concern:	The product nor any components are identified.
15.1j	Approved code of practice:	Classification and labeling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.
15.1k	Guidance notes:	Workplace exposure limits EH40.
15.11	EU legislation references:	(EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures {CLP Regulation}. EC 453/2010. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
15.2	Chemical safety assessment:	Not required.
15.2a	Other regulatory information:	None.

Section 16: Other information

16.1	Other information:	
16.1a	Date of revision:	02/04/19
16.1b	SDS number and revision:	F17-3324-2-C
16.1c	Supersedes SDS number and revision:	F17-3324-2-B
16.1d	Changes made to the previous version of the SDS:	Reviewed and updated document control numbers.
16.1e	Key/legend to abbreviations and acronyms used in the SDS:	 ADN European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway. ADR The European Agreement concerning the International Carriage of Dangerous Goods by Road. CAS Chemical Abstracts Service. CLP Classification, Labelling and Packaging. EC European Commission. EC50 Half maximal effective concentration. EH40 Resource containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations. EINECS European Inventory of Existing Commercial chemical Substances. ELINCS European List of Notified Chemical Substances. EPA Environmental Protection Agency. EU European Union. GHS Globally Harmonized System of Classification and Labelling of Chemicals. H Statement GHS Hazard statement.

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			IATA International Air Transport Association.
			IBC Intermediate Bulk Container.
			IC50 Half maximal inhibitory concentration.
			IMDG International Maritime Dangerous Goods.
			LC50 Median lethal concentration.
			LD50 Median lethal dose.
			LogPow logarithm of the octanol/water partiion coefficient.
			MARPOL 73/78 International Convention for the Prevention of
			Pollution From Ships, 1973 as modified by theProtocol of 1978.
			OEL Occupational Exposure Limit.
			OSHA Occupational Safety and Health Administration (USA).
			PBT Persistent, Bioaccumulative, and Toxic.
			RID The Regulations concerning the International Carriage of
			Dangerous Goods by Rail.
			SARA Superfund Amendments and Reauthorization Act.
			SCBA Self-Contained Breathing Apparatus.
			SDS Safety Data Sheet.
			STOT Specific Target Organ Toxicity.
			STOT-RE Specific Target Organ Toxicity - Repeated Exposure.
			STOT-SE Specific Target Organ Toxicity - Single Exposure.
			TSCA Toxic Substances Control Act.
			UN United Nations.
			USA United States of America.
			vPvB very Persistent very Bioaccumulative.
16.1f		of hazard statements and/or precautionary	All statements were written out in full.
		ents not written out in full elsewhere:	
DISCLA	IMER:		ic material designated and may not be valid for such material used
			r in any process. Such information is, to the best of the company's
			le as of the date indicated. However, no warranty guarantee or
			iability, or completeness. It is the user's responsibility to satisfy
		himself as to the suitability of such inform	hation for his own particular use.
		EN	ND OF SDS