

SAFETY DATA SHEET

Date Revised: Nov 30, 2021

SECTION 1: Product and Company Identification

Product Name: YF[®]594 Tyramide Kit, HRP Streptavidin

Catalog Number: Y6092S, Y6092L

Manufacturer/Supplier:

UElandy (Suzhou) Co., Ltd.

Room 302-1, Building 1, No.18 Chunyao Road, Caohu Industrial Park, Xiangcheng District, Suzhou, P.R. China

Phone: 86-512-69571710, mailbox:service@uelandy.com

Web: <http://www.uelandy.com>

SECTION 2: Hazards identification

GHS - Classification

Signal Word Warning

Health hazards None

Physical hazards GHS Physical Hazard 1 - Flammable

GHS Physical Hazard Category 4

Hazard statements H227 - Combustible liquid

Precautionary statements P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P370 + P378 - In case of fire, use water/water spray/water jet/carbon

dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction

WHMIS classification Flammable liquids, category 4

Classification according to Regulation (EC) No 1272/2008[CLP] None

Classification according to Directive 1999/45/EC None

HMIS Classification

Health hazard: 1

Flammability: 2

Physical hazards: 0

NFPA Rating

Health hazard: 1

Fire: 2

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Reactivity Hazard: 0

Labeling according to Regulation (EC) No 1272/2008[CLP]

Hazard pictogram None

Signal word None

Hazard statements None

Precautionary statements None

SECTION 3: Composition/information on ingredients

Name	CAS No.	EC No.	Index No.	Weight %	Classification according to 67/548/EEC	Classification according to regulation (EC)No1278/2008
DMSO	67-68-5	200-664-3	-	>99%	-	None

SECTION 4: First aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: Firefighting measures

Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water.

Special protective equipment for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

Personal precautions

Avoid breathing vapors, mist or gas. Remove all sources of ignition.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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Methods and materials for containment and cleaning up

Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid inhalation of vapor or mist.

Avoid direct contact with substance.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Store at -20 °C.

SECTION 8: Exposure controls/personal protection

Components with workplace control parameters

Substance: Dimethylsulfoxide

CAS no. 67-68-5

Country	Austria	Belgium	Denmark	European Union	France	Germany
Limit value, 8hours	160mg/m ³	-	160mg/m ³	-	-	160mg/m ³
Limit value, short term	-	-	320mg/m ³	-	-	320mg/m ³

Country	Hungary	Italy	Poland	Spain	Sweden	Netherlands	Switzerland
Limit value, 8hours	-	-	-	-	160mg/m ³	-	160mg/m ³
Limit value, short term	-	-	-	-	500mg/m ³	-	320mg/m ³

Country	United Kingdom	USA-NIOSH	USA-OSHA	Australia	Canada	Japan	South Korea
Limit value, 8hours		-	-	-	-	-	-
Limit value, short term		-	-	-	-	-	-

Personal protective equipment

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

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Wash and dry hands.

Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

Chemical Name	YF [®] 594 Tyramide Kit, HRP Streptavidin
Appearance	Liquid
Odor	No information available
Odor Threshold	No information available
PH	No information available
Melting point/freezing point	No information available
Boiling point	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability	No information available
Explosive limits	No information available
Vapor Pressure	No information available
Relative density	No information available
Solubility	No information available
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available
Explosive properties	No information available
Other information	No information available

SECTION 10: Stability and reactivity

Reactivity None known.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardou reactions No information available.

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Conditions to avoid	Heat, flames and sparks.
Materials to avoid	No information available.
Hazardous decomposition products	
Hazardous decomposition products formed under fire conditions. - Carbon oxides	

SECTION 11: Toxicological information

Acute toxicity DMSO

Oral LD50	rat - 14,500 mg/kg
Inhalation LC50	Inhalation - rat - 4 h - 40250 ppm
Dermal LD50	rabbit - > 5,000 mg/kg
Other information on acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	Salmonella typhimurium assay (Ames test): negative (+/- activation), DMSO is used as a neutral solvent in the Ames mutagen test

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity	No data available
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Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

Aspiration hazard	No data available
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Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin May	be harmful if absorbed through skin. May cause skin irritation.

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Eyes May cause eye irritation.

Additional Information

RTECS: PV6210000 (DMSO)

SECTION 12: Ecological information

Toxicity	The LC50(96hrs) for ten species of fish range from 32500 to 43000ppm
Persistence and degradability	No information available
Biodegradation	Dimethyl sulfoxide: biodegradation: 90% (28d).
Mobility in soil	No information available
Results of PBT and vPvB assessment	No information available
Other adverse effects	No information available
Additional information	No information available

SECTION 13: Disposal considerations

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

SECTION 14: Transport information

IATA / ADR / DOT-US / IMDG

Not dangerous goods during transportation

UN number Not Applicable

UN proper shipping name Not Applicable

Transport hazard class(es) Not Applicable

Packing group Not Applicable

Environmental hazards Not Applicable

Special precautions for user Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not Applicable.

SECTION 15: Regulatory information

US Federal Regulations

US Toxic Substances Control Act (TSCA) Not listed

SARA 302 No chemicals were found.

SARA 313 No chemicals were found.

SARA 311/312 Hazards DMSO : fire hazard, chronic health hazard

Acute Health Hazard Yes

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Chronic Health Hazard No

Fire Hazard Yes

Sudden Release of Pressure Hazard No

Reactive Hazard No

WHMIS Hazard Class Flammable liquids, category 4

SECTION 16: Other information

Reason for revision SDS sections updated

Version no. 1

For research use only. Not for use in diagnostic procedures.

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