

Safety Data Sheet

This safety data sheet complies with the requirements of: JIS Z 7253:2019

> Revision Date 2021-02-06 Revision Number 4

1. Identification

ROX Reference Dye (50X) **Product Name** Product Code SD2219 **Registration number** No information available Details of the supplier of the safety data sheet Supplier Japan: Takara Bio Inc. Nojihigashi 7-4-38 Kusatsu, Shiga 525-0058, Japan Phone: +81.77.565.6972 Web: www.takara-bio.com China: Takara Biomedical Technology (Beijing) Co., Ltd. Life Science Park, 22 KeXueYuan Road, Changping District, Beijing 102206, China Phone: +86 10 8072 0980 Web: www.takarabiomed.com.cn In case of emergency, call PERS (Professional Emergency Resource Services) **Emergency telephone number** 1-800-633-8253 (US) or 801-629-0667 (international). Recommended use of the chemical and restrictions on use **Identified uses** For research use only. Not for use in diagnostic procedures Restrictions on use No information available 2. Hazard(s) identification **GHS Classification** Not classified Acute toxicity - Oral Classification not possible Acute toxicity - Dermal Classification not possible

Acute toxicity - Inhalation (Gases)	Classification not applicable
Acute toxicity - Inhalation (Vapors)	Classification not possible
Acute toxicity - Inhalation (Dusts/Mists)	Classification not possible
Skin corrosion/irritation	Classification not possible
Serious eye damage/eye irritation	Classification not possible
Respiratory sensitization	Classification not possible
Skin sensitization	Classification not possible
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Classification not possible
Reproductive toxicity	Classification not possible
Effects on or via lactation	No effects on or via lactation
Specific target organ toxicity (single exposure)	Classification not possible
Specific target organ toxicity (repeated exposure)	Classification not possible
Aspiration hazard	Classification not possible
Acute aquatic toxicity	Classification not possible
Chronic aquatic toxicity	Classification not possible
Ozone	Classification not possible

GHS label elements

Hazard Statements Not classified

Prevention

Not applicable

Response

 Not applicable Storage Not applicable Disposal Not applicable

Other hazards

No information available.

3. Composition/information on ingredients

Pure substance/mixture

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Chemical name	CAS No	Weight-%	ENCS Inventory	ENCS Number	ISHL Inventory	ISHL No
Tween 20	9005-64-5	< 0.1	Existing	(8)-55	Existing	(8)-55

Pollutant Release and Transfer Registry (PRTR) Not applicable

Industrial Safety and Health Law

ISHL Notifiable Substances Not applicable

Harmful Substances Whose Names Are to be Indicated on the Label Not applicable

Mixture

Poisonous and Deleterious Substances Control Law

Not applicable

4. First-aid measures

In case of inhalation	Remove to fresh air.
In case of skin contact	Wash skin with soap and water.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
In case of ingestion	Clean mouth with water and drink afterwards plenty of water.
Most important symptoms/effects, acute and delayed	No information available.
Note to physicians	Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Special Extinguishing Media Large Fire	Cool drums with water spray. CAUTION: Use of water spray when fighting fire may be inefficient.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation.
For emergency responders	Use personal protection recommended in Section 8.
Environmental precautions	See Section 12 for additional Ecological Information.
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

<u>Handling</u>	
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.
Storage	
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.

	8. Exposure controls/personal protection
Engineering controls	Showers Eyewash stations
Exposure guidelines	Ventilation systems. This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Biological occupational exposure limits	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies
Environmental exposure controls Personal Protective Equipment	No information available.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Eye/face protection Skin and body protection	No special protective equipment required. No special protective equipment required.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Physical state Color Odor Odor Threshold	Aqueous solution Liquid Pink Odorless No information available	
<u>Property</u> Melting point / freezing point Boiling point/boiling range (°C) Flammability (solid, gas) Upper/lower flammability or explosi Upper flammability limit: Lower flammability limit:	<u>Values</u> ve limits	Remarks • Method No information available No information available No information available
Flash point		ASTM D 56
Evaporation Rate Autoignition temperature		No information available No information available
Decomposition temperature		No information available
pH Viscosity		No information available
Kinematic viscosity		No information available
Dynamic Viscosity Water solubility		No information available No information available
Solubility in other solvents		No information available
Partition Coefficient		No information available
(n-octanol/water)		No information quailable
Vapor pressure Vapor density		No information available No information available
Relative density		No information available
Particle characteristics		
Particle Size		Not applicable
Particle Size Distribution		Not applicable
Other information		

Other information

Explosive properties Oxidizing properties No information available No information available

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Incompatible materials	None known based on information supplied.
Hazardous Decomposition Products Explosion Data	None known based on information supplied.
Sensitivity to static discharge	None.
Sensitivity to mechanical impact	t None.

11. Toxicological information

Acute toxicity

Numerical measures of toxicity - Product Information

1.744 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

1.744 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

1.744 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

1.744 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 1.744 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Tween 20	= 37000 mg/kg (Rat)	-	-
Symptoms	No information available.		
Product Information			
Ingestion	Specific test data for the s	substance or mixture is not availal	ble.
Inhalation	Specific test data for the s	substance or mixture is not availal	ble.
Skin contact	Specific test data for the s	substance or mixture is not availal	ble.
Eye contact	Specific test data for the s	substance or mixture is not availal	ble.
Skin corrosion/irritation	Based on available data,	the classification criteria are not n	net. Classification not possible.
Serious eye damage/eye irritatio	n Based on available data,	the classification criteria are not n	net. Classification not possible.
Respiratory or skin sensitization	Classification not possible	ð.	
Germ cell mutagenicity	Based on available data,	the classification criteria are not n	net. Classification not possible.
Carcinogenicity	Based on available data,	the classification criteria are not n	net. Classification not possible.
Reproductive toxicity	Based on available data,	the classification criteria are not n	net. Classification not possible.
STOT - single exposure	Based on available data,	the classification criteria are not n	net. Classification not possible.
STOT - repeated exposure	Based on available data,	the classification criteria are not n	net. Classification not possible.
Aspiration hazard	Based on available data,	the classification criteria are not n	net. Classification not possible.

12. Ecological information		
Ecotoxicity	Classification not possible.	
Percentage for unknown hazards	0.744 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.	
Persistence and degradability	No information available.	

Bioaccumulation	No information available.	
Hazardous to the ozone layer Other adverse effects	Classification not possible. Based on available data, the classification criteria are not met. No information available.	
13. Disposal considerations		
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
Contaminated packaging	Do not reuse empty containers.	

14. Transport information

IMDG_	Not regulated
ADR	Not regulated
IATA	Not regulated
<u>Japan</u>	Not regulated

15. Regulatory information

National regulations

Pollutant Release and Transfer Registry (PRTR) Not applicable

Industrial Safety and Health Law Not applicable ISHL Notifiable Substances Not applicable

Poisonous and Deleterious Substances Control Law Not applicable

Fire Service Law:

Not applicable

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL)

Not applicable

Chemical name	CAS No	Chemical Substances Control Law
Tween 20	9005-64-5	Priority assessment chemical substance

Act on Prevention of Marine Pollution and Maritime Disaster Not applicable

International Regulations

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories IECSC

Legend:

TSČA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

16. Other information

Revision Date Revision Note	2021-02-06 No information available				
Key or legend to abbreviations and acronyms used in the safety data sheet Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION					
TWA Time weighted av * Skin designation		Ceiling +	Maximum limit value Sensitizers		

Disclaimer

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End of Safety Data Sheet