# **SAFETY DATA SHEET**

Dako REAL Levamisole

## Agilent )akn

### **Section 1. Identification**

1.1 Product identifier	
Product name	: Dako REAL Levamisole
Part no.	: 🔀 5005
Validation date	: 6/29/2023
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Identified uses	: Aboratory use Container type: Bottle K5005 // Dako REAL Levamisole // Dako REAL Detection System, Alkaline Phosphatase/RED, Rabbit/Mouse // 1 mL Reference number: SDS305
1.3 Details of the supplier o	<u>f the safety data sheet</u>
Supplier/Manufacturer	<ul> <li>Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA Tel: +1 800 227 9770</li> <li>Agilent Technologies Singapore (International) Pte Ltd. No. 1 Yishun Avenue 7 Singapore, 768923 Tel. (65) 6276 2622</li> <li>Agilent Technologies Denmark ApS Produktionsvej 42 2600 Glostrup, Denmark Tel. +45 44 85 95 00</li> <li>www.Agilent.com</li> </ul>
e-mail address of person responsible for this SDS	: SDS@Agilent.com
1.4 Emergency telephone n	umber

#### 1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

### Section 2. Hazards identification

2.1 Classification of the s	ubstance or mixture
OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the subs	stance or mixture

Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2.9%

#### 2.2 GHS label elements

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### Section 2. Hazards identification

Signal word	No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	Not applicable.
2.3 Other hazards	
Hazards not otherwise classified	: None known.

### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
vamisole hydrochloride	≤3	16595-80-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### 4.1 Description of necessary first aid measures

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
4.2 Most important symp	toms/effects, acute and delayed
Potential acute health e	
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sy	<u>mptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

### Section 4. First aid measures

4.3 Indication of immediate medical attention and special treatment needed, if necessary			
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>		
Specific treatments	: No specific treatment.		
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.		

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

#### 5.2 Special hazards arising from the substance or mixture

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Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective	: Fire-fighters should wear appropriate protective equipment and self-contained breathin

# **Special protective** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	-	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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### Section 7. Handling and storage

7.1 Precautions for safe han	dling
Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Specific storage conditions: Please consult the label. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
7.3 Specific end use(s)	
Recommendations	: Industrial applications, Professional applications.
Industrial sector specific solutions	: Not available.

### Section 8. Exposure controls/personal protection

#### 8.1 Control parameters

#### **Occupational exposure limits**

Ingredient name	Exposure limits
vamisole hydrochloride	None.

#### **Biological exposure indices**

No exposure indices known.

8.2 Exposure controls		
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborn contaminants.	е
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensu they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipme will be necessary to reduce emissions to acceptable levels.	е
Individual protection measure		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothin Wash contaminated clothing before reusing. Ensure that eyewash stations and sa showers are close to the workstation location.	ıg.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists gases or dusts. If contact is possible, the following protection should be worn, unle the assessment indicates a higher degree of protection: safety glasses with side- shields.	5,
Skin protection		

### Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>		
Physical state	:	Liquid.
Color	1	Not available.
Odor	1	Not available.
Odor threshold	1	Not available.
рН	1	Not available.
Melting point/freezing point	1	0°C (32°F)
Boiling point, initial boiling point, and boiling range	1	100°C (212°F)
Flash point	:	Not available.
Evaporation rate	1	Not available.
Flammability	1	Not applicable.
Lower and upper explosion limit/flammability limit	1	Not available.

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Ingredient name

Vapor pressure

					Hg		
	water	17.5	2.3	-	92.258	12.3	-
Relative vapor density	Not available.			•			
Relative density	: Not available.						
Density	: 1 g/cm <sup>3</sup>						
Solubility(ies)	: Media			Result			
	water			Soluble			
Miscible with water	: Yes.			<b>I</b>			
Partition coefficient: n- octanol/water	: Not applicable.						
Auto-ignition temperature	: Not available.						
Decomposition temperature	: Not available.						
Viscosity	: Not available.						
Particle characteristics							
Median particle size	: Not applicable.						

mm Hg kPa

Vapor Pressure at 20°C

Method

mm

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Vapor pressure at 50°C

Method

kPa

## Section 10. Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

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Product/ingredient name	Result	Species	Dose	Exposure
evamisole hydrochloride	LD50 Oral	Rat	180 mg/kg	-
Irritation/Corrosion				
Not available.				
<u>Sensitization</u>				
Not available.				
Mutagenicity				
Conclusion/Summary	: Not available.			
Carcinogenicity				
Conclusion/Summary	: Not available.			
Reproductive toxicity				
Conclusion/Summary	: Not available.			
<b>Teratogenicity</b>				
Conclusion/Summary	: Not available.			
<u>Specific target organ toxic</u>	<u>ity (single exposure)</u>			
Not available.				
<u>Specific target organ toxic</u>	<u>ity (repeated exposure)</u>			
Not available.				
Aspiration hazard				
Not available.				
nformation on the likely	: Routes of entry anticipat	ed: Oral, Dermal, Inha	lation, Eyes.	
outes of exposure				
otential acute health effect				
Eye contact	: No known significant eff			
Inhalation	: No known significant eff			
Skin contact	: No known significant eff			
Ingestion	: No known significant eff	ects or critical hazards	i.	

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### Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics					
Eye contact	: No specific data.				
Inhalation	: No specific data.				
Skin contact	: No specific data.				
Ingestion	: No specific data.				
	ts and also chronic effects from short and long term exposure				
<u>Short term exposure</u>					
Potential immediate effects	: Not available.				
Potential delayed effects	: Not available.				
<u>Long term exposure</u>					
Potential immediate effects	: Not available.				
Potential delayed effects	: Not available.				
Potential chronic health effe	ects				
General	: No known significant effects or critical hazards.				
Carcinogenicity	: No known significant effects or critical hazards.				
Mutagenicity	: No known significant effects or critical hazards.				
Reproductive toxicity	: No known significant effects or critical hazards.				

#### Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	(gases)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Øako REAL Levamisole	6185.6	 N/A	N/A	N/A
levamisole hydrochloride	180	N/A	N/A	N/A

### Section 12. Ecological information

#### 12.1 Toxicity

Not available.

#### 12.2 Persistence and degradability

Not available.

#### **12.3 Bioaccumulative potential**

Not available.

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

### Section 12. Ecological information

12.5 Other adverse effects

No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### 13.1 Waste treatment methods

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Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

### Section 14. Transport information

DOT / TDG / Mexico / IMDG / : Not regulated. IATA

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

### Section 15. Regulatory information

15.1 Safety, health and envir	oni	nental regulations/legislation specific for the substance or mixture
U.S. Federal regulations	:	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I Substances	1	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential Chemicals)	1	Not listed
<u>SARA 302/304</u>		

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### Section 15. Regulatory information

#### **Composition/information on ingredients**

No products were found.

#### SARA 304 RQ : Not applicable.

SARA 311/312 Classification

: Not applicable.

#### Composition/information on ingredients

Name	%	Classification
evamisole hydrochloride	-0	COMBUSTIBLE DUSTS ACUTE TOXICITY (oral) - Category 3

#### **State regulations**

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: None of the components are listed.
<u>California Prop. 65</u>	

This product does not require a Safe Harbor warning under California Prop. 65.

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

#### **Montreal Protocol**

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.

**Inventory list** 

Australia	:	All components are listed or exempted.
Canada	:	All components are listed or exempted.
China	:	All components are listed or exempted.
Japan	:	Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
New Zealand	:	All components are listed or exempted.
Philippines	:	All components are listed or exempted.
Republic of Korea	:	All components are listed or exempted.
Taiwan	:	All components are listed or exempted.
Thailand	:	Not determined.
Turkey	:	All components are listed or exempted.
United States	:	Not determined.
Viet Nam	1	All components are listed or exempted.

### Section 16. Other information

### Procedure used to derive the classification

	Justification		
Not classified.			
<u>History</u>			
Date of issue/Date of revision	: 06/29/2023		
Date of previous issue	: 07/28/2020		
Version	: 4		
Key to abbreviations	<ul> <li>: 4</li> <li>: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available UN = United Nations</li> </ul>		

**V** Indicates information that has changed from previously issued version.

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