

## SAFETY DATA SHEET

according to 29CFR1910.1200 (OSHA HCS) and Regulation (EC) No. 1907/2006

**Date of Compilation/Revision Date:** 2023-04-13

**Revision Number:** 002

**Replaces Revision:** 001

### **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

#### **1.1 Product identifier**

**Trade name/Designation of the mixture:** Linearity FD Lipids

**Product code:** K709M-5

#### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Intended Use:** For use as in vitro diagnostic quality control material.

**Uses advised against:** Not for use in/on humans or animals. Not for use in the manufacture of products to be used in/on humans or animals.

#### **1.3 Details of the supplier of the safety data sheet**

**Supplier:**  
Aalto Scientific, Ltd.  
230 Technology Parkway  
Eatonton, GA 31024  
USA

**Customer service telephone:** (760) 431-7922

**Email (Competent Person):** ehs@aaltoscientific.com

**1.4 Emergency telephone number** 1-800-748-6674

### **SECTION 2: Hazards Identification**

#### **2.1 Classification of the substance or mixture**

This product does not meet the criteria for classification in accordance with 29CFR1910.1200 (OSHA HCS).

This product meets the criteria for classification in accordance with Regulation (EC) No. 1272/2008 (CLP). This product is classified as Skin Sensitization 1A and Hazardous to the aquatic environment – Chronic, category 3.

Once diluted, as it is intended to be used, this product does not meet the criteria for classification as Hazardous to the aquatic environment – Chronic, category 3 in accordance with Regulation (EC) No. 1272/2008 (CLP).

No additional information available.

The most important adverse physicochemical, human health and environmental effects

## 2.2 Label elements

Hazard pictogram(s)



Signal word(s)

Warning

Hazard statement(s)

H317

May cause an allergic reaction

H412

Harmful to aquatic life with long lasting effects

Precautionary statement(s)

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P272

Contaminated work clothing should not be allowed out of the workplace.

P273

Avoid release to the environment

P280

Wear protective gloves/protective clothing/eye protection

P302+P352

IF ON SKIN: Wash with plenty of water

P333+P313

If skin irritation or rash occurs: Get medical advice/attention.

P362+P364

Take off contaminated clothing and wash it before reuse.

P501

Dispose of contents in accordance with local, state, federal and international regulations.

## 2.3 Other hazards

Some components of this kit contain human and/or animal blood derivatives. No known test method can offer complete assurance that products derived from human and/or animal blood will not transmit infectious agents. Therefore, this material should be considered potentially infectious. Contains materials that could be toxic in large doses.

PBT criteria of REACH Annex XIII

Substance/mixture does not meet the PBT criteria of REACH regulation, Annex XIII

vPvB criteria of REACH Annex XIII

Substance/mixture does not meet the vPvB criteria of REACH regulation, Annex XIII

## **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Name	Product identifier (CAS-No.) (EC No.)	Concentration (%w)	Classification of substance according to Regulation (EC) no. 1272/2008 and hazard statement(s)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS No.: 55965-84-9 EC No.: 911-418-6	0.00015 – 0.0020	Skin Sensitization 1A H317: May cause an allergic skin reaction
Sodium azide	CAS No.: 26628-22-8 EC No.: 247-852-1	0.09 -0.95	Acute Toxicity 2, H300 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Supplemental hazard statement: EUH032

#### Substances indicated in 3.2 (additional information)

Name	Specific concentration Limit/M- factor(s)	Acute Toxicity Estimate	Reason for indicating the substance
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	M=100 M=100	–	Not applicable.
Sodium azide	–	27 mg/kg (oral) 20 mg/kg (dermal)	Not applicable.

For full hazard and supplemental hazard statements refer to Section 16 of this SDS.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aid measures general

Seek medical advice/attention if you feel unwell.

In case of eye contact:

May Cause irritation. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

In case of skin contact:

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician

In case of ingestion:

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

In case of inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Protection of first-aid providers	Wear suitable gloves and eye/face protection.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	The most important known symptoms and effects are described in the labeling (see Section 2.2) and/or Section 11 of this SDS.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	No data available.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media which must not be used for safety reasons	None to our knowledge.
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:	None to our knowledge.
Combustion products or resulting gases:	None.
<b>5.2 Special hazards arising from the substance or mixture</b>	None to our knowledge.
<b>5.3 Advice for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

## **SECTION 6: Accidental release measures**

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

For emergency responders and non-emergency personnel	Wear suitable gloves and eye/face protection. Handle all blood and materials in contact with blood as if capable of transmitting infectious agents. It is recommended that blood and materials in contact with blood be handled using established good laboratory practices.
--	--

### **6.2 Environmental precautions**

Waste disposal must be in accordance with appropriate US, Federal, State and International regulations.

### **6.3 Methods and material for containment and cleaning up**

Containment techniques	Use appropriate adsorbent material.
Spill clean-up	Use appropriate adsorbent material.

### **6.4 Reference to other sections**

See Sections 8 and 13 for Exposure controls/personal protection and waste handling.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Recommendations for safe handling

Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wear appropriate personal protective equipment - see Section 8.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from sources of ignition. Keep separate from acidic/basic solutions.

### 7.3 Specific end use(s)

For professional use only.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

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

#### 8.2.2 Individual protection measures

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection

Wear suitable gloves resistant to chemical penetration. Nitrile rubber gloves. Layer thickness : 0.11mm. Breakthrough time : 60 min.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Body protection

Wear clothing suitable for a laboratory environment including (but not limited to) a lab coat and closed toed shoes.

### Ingredients with workplace control parameters (US)

Component	CAS-No.	Value	Control parameters	Basis
-----------	---------	-------	--------------------	-------

Sodium azide	26628-22-8	C	0.29 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Not classifiable as a human carcinogen		
		C	0.11 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Not classifiable as a human carcinogen		
			0.1 ppm	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		C	0.3 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		Potential for dermal absorption		
		C	0.1 ppm	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		Skin notation		
		C	0.3 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		Skin notation		
		C	0.1 ppm 0.3 mg/m <sup>3</sup>	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Solid.	Decomposition temperature:	No information available.
Colour:	No information available.	pH:	No information available.
Odour:	No information available.	Kinematic viscosity:	No information available.
Melting point/freezing point:	No information available.	Solubility:	No information available.
Boiling point:	No information available.	Partition coefficient n-octanol/water (log value):	No information available.
Flammability:	No information available.	Vapour pressure:	No information available.
Lower and upper explosion limit:	No information available.	Density/relative density:	No information available.
Flash point:	No information available.	Relative vapour density:	No information available.
Autoignition temperature:	No information available.	Particle characteristics:	No information available.

### 9.2 Other Information

No other information available.

## **SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	Stable under normal conditions.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	No information available.
<b>10.4 Conditions to avoid</b>	Temperatures outside of the specified storage range.
<b>10.5 Incompatible materials</b>	Strong oxidizing agents, Reducing agents, Amines, Mercaptans
<b>10.6 Hazardous decomposition products</b>	Thermal decomposition can lead to release of irritating gases and vapors. Metals and metallic compounds: Sodium azide forms explosive compounds with heavy metals. Repeated contact of low concentrations of azide with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds.

## **SECTION 11: Toxicological information**

### **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity:	Not classified. Based on available data, classification criteria are not met.
Skin corrosion/irritation:	Not classified. Based on available data, classification criteria are not met.
Serious eye damage/irritation:	Not classified. Based on available data, classification criteria are not met.
Respiratory or skin sensitization:	Not classified. Based on available data, classification criteria are not met.
Germ cell mutagenicity:	Not classified. Based on available data, classification criteria are not met.
Carcinogenicity:	Not classified. Based on available data, classification criteria are not met.
Reproductive toxicity:	Not classified. Based on available data, classification criteria are not met.
STOT-single exposure:	Not classified. Based on available data, classification criteria are not met.
STOT-repeated exposure:	Not classified. Based on available data, classification criteria are not met.
Aspiration hazard:	Not classified. Based on available data, classification criteria are not met.

**11.2 Information on other hazards**

Not established as having endocrine disrupting properties.

**SECTION 12: Ecological information****12.1 Toxicity**

<b>Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1) (CAS No. 55965-84-9)</b>	
Toxicity to fish (acute)	flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 0.19 mg/L - 96 h (US-EPA)
Toxicity to daphnia and other aquatic invertebrates	flow-through test LC50 - Daphnia magna (Water flea) - 0.18 mg/l - 48 h (US-EPA)
Toxicity to bacteria	static test EC50 - activated sludge - 4.5 mg/l - 3 h (OECD Test Guideline 209)
Toxicity to fish (Chronic toxicity)	semi-static test NOEC - Oncorhynchus mykiss (rainbow trout) - 0.098 mg/l - 35 d (OECD Test Guideline 215)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	flow-through test NOEC - Daphnia magna (Water flea) - 0.1 mg/l - 21 d (US-EPA)

<b>Sodium azide (CAS No. 26628-22-8)</b>	
Toxicity to fish (acute)	flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 2.75 mg/L - 96 h (OECD Test Guideline 203)
Toxicity to algae (acute)	static test ErC50 - Pseudokirchneriella subcapitata - 0.35 mg/L - 96 h (OECD Test Guideline 201)

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

Substance/mixture does not meet the PBT or vPvB criteria of REACH regulation, Annex XIII

**12.6 Endocrine disrupting properties**

Not established as having endocrine disrupting properties.

**12.7 Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Dispose of contents/container in accordance with licensed collector's sorting instructions. Sewage disposal is discouraged. Handle product as if it is capable of transmitting infectious disease.

**SECTION 14: Transport information**

ADR	IMDG	IATA	ADN	RID
<b>14.1 UN number/ID number</b>				
Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.

<b>14.2 UN proper shipping name</b>				
Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.
<b>14.3 Transport hazard class</b>				
Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.
<b>14.4 Packing group</b>				
Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.

**14.5 Environmental hazards** Not regulated for transportation

**14.6 Special precautions for user:** None.

**14.7 Maritime transport in bulk according to IMO instruments:** Not applicable.

## **SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** Restrictions according to REACH, Annex XVII: Not listed

**15.2 Chemical safety assessment** No chemical safety assessment has been carried out.

<b>U.S. Federal Regulations:</b>	
<b>U.S. CERCLA/SARA/TSCA Regulatory Information:</b>	This Product does not contain any chemicals currently listed on the Section 302/312, SARA Title III above the OSHA de minimis concentration.  This product does not contain any chemicals currently listed with a CERCLA RQ above the OSHA de minimis concentration.
<b>California Proposition 65</b>	This product contains trace amounts of the following substances known to the State of California to cause Cancer and/or reproductive harm: None.

## **SECTION 16: Other information**

**This data sheet contains changes from the previous version in section(s):**

Alignment to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Section 2.1: Classification revision.

Section 2.2: Label elements added.

Section 3: Composition information revised.

Section 6: Containment technique added.

Section 7: Additional precautions added. Specific use related to handling and storage revised.

Section 8: PPE recommendations added.

Section 9: Physical and chemical properties revised.

Section 11: Revised categories.

Section 12: Updated with current available information.  
Section 13: Revised disposal considerations.  
Section 14: Added table to align with EU requirements for Section 14.  
Section 15: Added information to align with EU requirements for Section 15.  
Section 16: Added full text of H statements

**Restrictions on use:**

This product is not for human consumption. This product is not for use in/on humans or animals.

**Additional advice:**

None.

**Full text of H- and EUH- statements not written out in full under Sections 2 to 15:**

H300	Fatal if swallowed
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
EUH032	Contact with acids liberates very toxic gas

**Data Sources:**

Component manufacturer, 1907/2006/EC (REACH), 1272/2008/EC (CLP)

**Disclaimer:**

The information and recommendations contained herein are based upon tests believed to be reliable. However, Aalto Scientific, Ltd., does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. Aalto Scientific, Ltd. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

**End of Safety Data Sheet**