



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: 003

Replaces Revision: 002

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

1.1 Product identifier

Trade name/Designation of the mixture: Linearity FD General Chemistry

Product code: K701M-5

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

Intended Use: For Proficiency use only.

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 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 in accordance with Regulation (EC) No. 1272/2008 (CLP).

The most important adverse physicochemical, human health and environmental effects

No additional information available.

2.2 Label elements

Hazard pictogram(s)

No pictogram is used

Signal word(s)

No signal word is used

Hazard statement(s)

H412: Harmful to aquatic life with long lasting effects

Precautionary statement(s)

P273: Avoid release to the environment

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)
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
Sodium azide	-	27 mg/kg (oral)	Not applicable.

		20 mg/kg (dermal)	
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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. In the case of contact with eyes, rinse immediately with plenty of water for 15 minutes and seek medical attention.

In case of skin contact:

May cause slight skin irritation. If a person feels unwell or symptoms of skin irritation appear, consult a physician. Wash off immediately with soap and plenty of water.

In case of ingestion:

May cause gastrointestinal irritation, nausea, vomiting and diarrhea

In case of inhalation:

May cause irritation of respiratory tract

Protection of first-aid providers

Wear suitable gloves and eye/face protection.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see Section 2.2) and/or Section 11 of this SDS.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use any extinguishing media which is suitable for the surrounding fire.

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.

5.2 Special hazards arising from the substance or mixture

None to our knowledge.

5.3 Advice for firefighters

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

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

Change contaminated clothing. Wash hands after working with mixture.

8.2.2 Individual protection measures

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Hand protection

Wear suitable gloves resistant to chemical penetration. Neoprene or nitrile rubber gloves. Layer thickness : 0.10mm. Breakthrough time : >480 min.

Respiratory protection

Required when dusts are generated.

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/m3	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/m3	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/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		Skin notation		
		C	0.1 ppm 0.3 mg/m3	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	No information available.	Density/relative density:	No information available.

explosion limit:

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

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

Temperatures outside of the specified storage range.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

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

STOT-repeated exposure:	not met. 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

Sodium azide (CAS No. 26628-22-8)	
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)

12.2 Persistence and degradability	No data available.
12.3 Bioaccumulative potential	No data available.
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.
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SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number/ID number				
Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.
14.2 UN proper shipping name				
Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.

14.3 Transport hazard class				
Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.
14.4 Packing group				
Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.

14.5 Environmental hazards

Hazardous to the aquatic environment.

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.

U.S. Federal Regulations:	
U.S. CERCLA/SARA/TSCA Regulatory Information:	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.
California Proposition 65	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 and EUH 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:

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)

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End of Safety Data Sheet