

Safety Data Sheet

Date of Issue/Date of Revision:

28-July-2026

Page 1 of 13

Date of Previous Issue:

03-February-2023 (Ver.0)

SDS – ARK™ SDMA Calibrator/Control**1. IDENTIFICATION**

(a) Product Identifier: ARK™ SDMA Calibrator/Control

Product Code: 5085-0002-00 to 5085-0003-00

(b) Other means of identification/synonyms

Component NameInternal Code

Calibrator A – F

4085-0004-00 to 4085-0004-05

Control Low and High

4085-0006-01 to 4085-0006-02

Product Type:

Liquid

(c) Relevant identified uses of the substance or mixture and uses advised against:

For Veterinary Use Only

(d) Manufactured/Supplied:

ARK Diagnostics, Inc.

48089 Fremont Blvd.

Fremont, CA 94538 USA

1-510-270-6270

customersupport@ark-tdm.com

2. HAZARDS IDENTIFICATION**OSHA/HCS Status:**

Regulation (EC)

1272/2008 [GHS]

ARK™ SDMA Calibrator and Control

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture:

ARK™ SDMA Calibrator/Control

Not classified.

GHS Label Elements:

Signal word:

ARK™ SDMA Calibrator/Control

No signal word.

Hazard statements:

ARK™ SDMA Calibrator/Control hazards.

No known significant effects or critical

Precautionary statements

Prevention:

ARK™ SDMA Calibrator/Control

Not applicable.

Response:

ARK™ SDMA Calibrator/Control

Not applicable.

Storage:

ARK™ SDMA Calibrator/Control

Not applicable.

Disposal:

ARK™ SDMA Calibrator/Control

Not applicable.

Supplemental label

Safety Data Sheet

Date of Issue/Date of Revision:

Page 2 of 13

28-July-2026

Date of Previous Issue:

03-February-2023 (Ver.0)

SDS – ARK™ SDMA Calibrator/Control

elements: ARK™ SDMA Calibrator/Control Not applicable.

Hazards not otherwise
classified: ARK™ SDMA Calibrator/Control Not applicable.

3. COMPOSITIONS/INFORMATION ON INGREDIENTS

Substance/mixture: ARK™ SDMA Calibrator Liquid Mixture
ARK™ SDMA Control Liquid Mixture

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

There are no ingredients which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES**Description of necessary first aid measures**

Eye contact: If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious amounts of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.

Skin contact: Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.

Inhalation: Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. 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. Immediately notify medical personnel and supervisor.

Ingestion: If swallowed, call a physician immediately. Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor.

Protection of first aid
Responders: See Section 8 for Exposure Controls/Personal Protection Recommendations.

Most important
symptoms and effects,
both acute and delayed: See Sections 2 and 11.

28-July-2026

Date of Previous Issue:

03-February-2023 (Ver.0)

SDS – ARK™ SDMA Calibrator/Control

Indication of
immediate medical
attention and special
treatment needed if
necessary:

Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.

Most important symptoms/effects, acute and delayed**Potential acute health effects**

Eye contact: No known significant effects or critical hazards.
Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.

Overexposure signs/symptoms

Eye Contact No specific data.
Inhalation: No specific data.
Skin contact: No specific data.
Ingestion: No specific data.

Indication of immediate medical attention and special treatment needed if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested.
Specific treatments: No specific treatment.
Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

5. FIREFIGHTING MEASURES**Extinguishing media**

Suitable extinguishing media: In case of fire, use water spray (fog), foam, carbon dioxide or dry chemical as appropriate for surrounding fire and materials.
Unsuitable extinguishing media: None known

28-July-2026

Date of Previous Issue:

03-February-2023 (Ver.0)

SDS – ARK™ SDMA Calibrator/Control

Hazardous thermal decomposition products:	No specific data.
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 equipment for fire fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece

6. ACCIDENTAL RELEASE MEASURES**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 in Section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel”.
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).

Methods and materials for containment and cleanup

Small spill:	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.
Large spill:	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

28-July-2026

Date of Previous Issue:

03-February-2023 (Ver.0)

SDS – ARK™ SDMA Calibrator/Control**7. HANDLING AND STORAGE****Precautions for safe handling**

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.

Conditions for safe storage, including any incompatibilities:

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control Parameters**

Occupational exposure limits:

None

Appropriate engineering controls:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Clear Liquid

Color

Pale yellow to yellow

Odor

No information identified

Safety Data Sheet

Date of Issue/Date of Revision:

28-July-2026

Page 6 of 13

Date of Previous Issue:

03-February-2023 (Ver.0)

SDS – ARK™ SDMA Calibrator/Control

Odor threshold	No information identified
pH	5-8
Melting point/freezing point	No information identified
Initial boiling point and boiling range	No information identified
Flash point	No information identified
Evaporation rate	No information identified
Flammability (solid, gas)	No information identified
Upper/lower flammability or explosive limits	No information identified
Vapor pressure	No information identified
Vapor density	No information identified
Relative density	No information identified
Water solubility	Miscible in water
Solvent solubility	No information identified
Partition Coefficient (n-octanol/water)	No information identified
Auto-Ignition temperature	No information identified
Decomposition temperature	No information identified
Viscosity	No information identified
Explosive properties	No information identified
Oxidizing properties	No information identified

Other information

Molecular weight	No information identified
Molecular formula	No information identified

10. STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients
Chemical Stability	The product is stable when stored as recommended.

Safety Data Sheet

Date of Issue/Date of Revision:

Page 7 of 13

28-July-2026

Date of Previous Issue:

03-February-2023 (Ver.0)

SDS – ARK™ SDMA Calibrator/Control

Possibility of hazardous
reactions

Not expected to occur.

Conditions to avoid

No thermal hazard. Avoid temperatures $\geq 32^{\circ}\text{C}$ to preserve biochemical integrity.

Incompatible materials

No information identified.

Hazardous decomposition
products:

No information identified.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Not available

Conclusion Summary:

Irritation/Corrosion

Not available

Conclusion Summary:

Sensitization

Not available

Conclusion Summary:

Mutagenicity

Not available

Conclusion Summary:

Carcinogenicity

Not available

Conclusion Summary:

Reproductive Toxicity

Not available

Conclusion Summary:

Teratogenicity

Not available

Conclusion Summary:

Specific target organ toxicity
(single exposure)

Not available

Specific target organ toxicity
(multiple exposure)

Not available

Aspiration hazard

Not available.

Potential acute health effects:

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.

Symptoms related to the physical, chemical and toxicological characteristics

SDS – ARK™ SDMA Calibrator/Control

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.

Delayed and immediate effects and also chronic effects from short and long term exposure**Short term exposure**

Potential immediate effects	Not available
Potential delayed effects	Not available

Long term exposure

Potential immediate effects	Not available
Potential delayed effects	Not available
Potential chronic health effects	Not available

Conclusion/Summary

General	No known significant effects or critical hazards
Carcinogenicity	No known significant effects or critical hazards
Mutagenicity	No known significant effects or critical hazards
Teratogenicity	No known significant effects or critical hazards
Developmental effects	No known significant effects or critical hazards
Fertility effects	No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity measurement	Not available.
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12. ECOLOGICAL INFORMATION

Toxicity	Not available
Conclusion summary:	
Persistence and degradability	Not available
Conclusion summary:	

28-July-2026

Date of Previous Issue:

03-February-2023 (Ver.0)

SDS – ARK™ SDMA Calibrator/Control

Bioaccumulative potential Not available

Mobility in soil

Soil/water partition coefficient (K_{oc})

Mobility

Other adverse effects No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Disposal methods 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 residue. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Sodium azide may react with lead or copper plumbing to form highly explosive metal azides. Products contain $\leq 0.09\%$ sodium azide. As a precaution, affected plumbing including instrumentation should be flushed adequately with water to mitigate the potential accumulation of explosive metal azides.

14. TRANSPORT INFORMATION

Transport Based on available data, this product/mixture is not regulated as a hazardous material/dangerous good under EU ADR/RID US DOT, Canada TDG, IATA or IMDG.

UN Number None assigned.

UN Proper Shipping Name None assigned

Transport hazard classes and packaging group None assigned

Special precautions for users Mixture not fully tested – avoid exposure.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code Not applicable

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance and mixture

This SDS complies with the requirements under the US, EU and GHS (EU CLP – Regulation EC No 1272/2008) guidelines. Consult your local or regional authorities for more information.

Safety Data Sheet

Date of Issue/Date of Revision:

Page 10 of 13

28-July-2026

Date of Previous Issue:

03-February-2023 (Ver.0)

SDS – ARK™ SDMA Calibrator/Control

U.S. Federal regulations TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory TSCA 8(b) Not determined

Clean Air Act Section 112: Not listed

(b) Hazardous Air pollutants (HAPs)

Clean Air Act Section 602

Class I Substances 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 Not listed

SARA 302/304:

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
ARK™ SDMA Calibrator						
sodium azide	0.09%	Yes	500	-	1000	
ARK™ SDMA Control						
sodium azide	0.09%	Yes	500	-	1000	

SARA 304RQ: 1000000 lbs/454000kg

SARA 311/312

Classification: Not applicable

Composition/information on ingredients: No products were found.

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.

California None of the components are listed.

Canada inventory:

International regulations

International lists:

Australia inventory (AICS):

Not determined

China inventory (IECSC):

Not determined

Japan inventory:

Not determined

28-July-2026

Date of Previous Issue:

03-February-2023 (Ver.0)

SDS – ARK™ SDMA Calibrator/Control

Korea inventory:	Not determined
Malaysia inventory (EHS Register):	Not determined
New Zealand Inventory of Chemicals (NZIoC):	Not determined
Philippines inventory (PICCS):	Not determined
Taiwan inventory (CSNN):	Not determined

Chemical Weapons

Convention List Schedule 1 Chemicals:

Convention List Schedule 2 Chemicals:

Convention List Schedule 3 Chemicals:

16. OTHER INFORMATION

Revision #, Date of Effectivity: See Header of this document

Key to Abbreviations:

ACGIH=American Conference of Governmental Industrial Hygienists

ADR/RID=European Agreement Concerning the International Carriage of Dangerous goods by Road/Rail;

AIHA=American Industrial Hygiene Association

ATE=Acute Toxicity Estimate

BCF=Bioconcentration Factor

CAS=Chemical Abstract Services

CLP=Classification, Labelling and Packaging of Substances and Mixtures

DNEL=Derived No Effect Level

EINECS=European Inventory of New and Existing Chemical Substances

EU=European Union

GHS=Global Harmonized System of Classification and Labelling of Chemicals

IARC=International Agency for Research on Cancer

IATA=International Air Transport Association

IBC=Intermediate Bulk Container

IDLH=Immediately Dangerous to Life or Health

IMDG=International Maritime Dangerous Goods

LOEL=Lowest Observed Effect Level

LOAEL=Lowest Observed Adverse Effect Level

LogPow=logarithm of the octanol/water partition coefficient

MARPOL 73/78=International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. (Marpol=marine pollution)

NIOSH=National Institute of Occupational Health and Safety

NOEL=No Observed Effect Level

NOAEL=No Observed Adverse Effect Level

NTP=National Toxicology Program

OEL=Occupational Exposure Limit

SDS – ARK™ SDMA Calibrator/Control

OSHA=Occupational Safety and Health Administration

PNEC=Predicted No Effect Concentration

SARA=Superfund Amendments and Reauthorization Act

STEL=Short Term Exposure Limit

TDG=Transportation of Dangerous Goods

TSCA=Toxic Substances Control Act

TWA=Time Weighted Average

UN= United Nations

WHMIS=Workplace Hazardous Materials Information System

SDS – ARK™ SDMA Calibrator/Control

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.