



MATERIAL SAFETY DATA SHEET

Malondialdehyde (MDA) / Thiobarbituric Acid Reactive Substances (TBARS) Colorimetric Assay kit

SECTION 1. IDENTIFICATION

Product name	Malondialdehyde (MDA) - (TBARS) Colorimetric Assay kit
Catalogue number	ZX-44116-96
Manufacturer or supplier's details	ZellBio GmbH . Krantorweg 48c . 13503 Berlin
Telephone	0049-30 81309085
Fax	0049-30 81309086
Email	support@zellx.de

SECTION 2. HAZARDS IDENTIFICATION



Regulation (EC) No. 1272/2008 [CLP/GHS]

Hydrochloric Acid

Skin Irritant, Class 2
Eye Irritant, Class 2

n-Propanol

Flammable, Category 2
Serious Eye Damage, Category 1
Specific Organ Toxicity, Category 3, Central nervous system

Sodium hydroxide

Serious eye damage, Category 1
Corrosive to metals, Category 1
Skin corrosion, Category 1B

1,1,3,3-Tetraethoxypropane

Flammable liquids, Category 4
Acute toxicity, Oral, Category 4

Hazard statements

Combustible liquid and Highly flammable liquid/vapour. May be harmful/toxic if inhaled, absorbed through skin,swallowed. Causes serious eye damage.
May be irritating to respiratory system and skin. Harmful to aquatic organisms.
May cause long-term adverse effects in aquatic environment.

Precautionary statements

Keep away from heat, open flames, hot surfaces, sparks.
Do not breathe dust/fume/gas/mist/vapors/spray.
Keep containers tightly closed.
Wash hands thoroughly after handling.
Wear protective gloves, clothing, and eye/face protection.

SECTION 3. FIRST AID MEASURES

	MDA Standard C279-25UL (Propanol, ≤ 100.0%; PET < 1.0%)	Sample Diluent X145-100ML (HCl, < 5.0%)	TBA Substrate C280-11ML (NaOH, < 1.0%)
Inhalation	If inhaled, remove to fresh air.	If inhaled, remove to fresh air.	If inhaled, remove to fresh air.
Skin Contact	Wash thoroughly with soap and water.	Wash thoroughly with soap and water.	Wash thoroughly with soap and water.
Eye Contact	Get medical attention. Rinse eyes with water extensively	Get medical attention. Rinse eyes with water extensively	Get medical attention. Rinse eyes with water extensively
Ingestion	If swallowed, wash out mouth with water if person is conscious.	Get medical attention. If person is conscious, give large amounts of water.	Get medical attention. If person is conscious, give a cupful of water.

SECTION 4. INFORMATION ON INGREDIENTS

Components:

MDA Standard (C279-25UL)
Sample Diluent (X145-100ML)
TBA Substrate (C280-11ML)

Description:	Chemical Name	CAS No	Percent
MDA Standard, C279-25UL	N-Propanol	71-23-8	≤ 100.0%
	1,1,3,3-Tetraethoxypropane	122-31-6	< 1.0%
Sample Diluent, X145-100ML	Hydrochloric acid	7647-01-0	< 5.0%
TBA Substrate, C280-11ML	Sodium hydroxide	1310-73-2	< 1.0%

Additional components of the kit are non-hazardous or the specific chemical identity and/or exact percentage (concentration) of composition have been withheld as a trade secret.

ZX-44116-96

SECTION 5. FIRE-FIGHTING MEASURES

**MDA Standard
C279-25UL
(Propanol, ≤ 100.0%; PET < 1.0%)**

**Sample Diluent
X145-100ML
(HCl, < 5.0%)**

Extinguishing Media

Suitable: Water spray, alcohol-resistant foam, carbon dioxide, or dry chemical.

Firefighting

Protective Equipment: Wear self-contained breathing apparatus if necessary.
Specific Hazard(s): HCl - Emits toxic fumes under fire conditions.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

Wear appropriate protective clothing. Avoid breathing vapors, mist or gas. Avoid source of ignition. Contain spill to prevent migration. Wipe up spill, place in suitable, closed container for appropriate disposal.

For Borohydride Stock, material may be absorbed with dry sodium carbonate or other inert material. For all components, wash area of spill with soap and water.

Methods and materials for containment and cleaning up

Environmental precautions

Discharge into drains should be avoided.

SECTION 7. HANDLING AND STORAGE

Handling

Avoid getting components of this kit on you or in you. Always wear appropriate protective clothing. Always wash hands and other exposed areas thoroughly after using this kit. Do not eat or drink while using this kit. Qualified and experienced professionals should only handle this kit.

Storage

Store according to the package insert instructions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

No special engineering controls are required when working with this kit.

Use with adequate ventilation.

Protective Equipment

Safety glasses are recommended to prevent eye contact. Chemical resistant gloves, lab coat should be worn to prevent skin contact.

SECTION 9. STABILITY AND REACTIVITY

Stability

This material is stable until the expiration date on the kit if stored as directed.

Materials to Avoid

Extreme temperatures, flames, sparks

Incompatibilities

Strong oxidizing agents, phosphorus halides, strong acids, metals (such as aluminum).

SECTION 10. TOXICOLOGICAL INFORMATION

Skin Contact: May cause skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: May cause eye irritation.
Inhalation: May be harmful if inhaled. May be irritating to respiratory tract.
Ingestion: May be harmful if swallowed. May be irritating to digestive tract.

Route of Exposure

Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 11. ECOLOGICAL INFORMATION

Harmful to aquatic organisms. May cause long-term adverse effects in aquatic environment.

SECTION 12. DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of Substance

Dispose of waste materials, unused components and contaminated packaging in compliance with country, state, district and local regulations. If unsure of the applicable requirements, contact the authorities for information.

SECTION 13. TRANSPORT INFORMATION

U.S. and Canadian Transportation; DOT

Proper Shipping Name: Chemical Kits
UN Identification Number: 3316
Class and Description: 9, Miscellaneous
Packing Group: N/A
Hazard Label: Class 9

International Air Transportation (IATA)

Proper Shipping Name: Chemical Kits
UN Identification Number: 3316
Class and Description: 9, Miscellaneous
Packing Group: III Hazard
Label Class: 9

SECTION 14. REGULATORY INFORMATION

Product related information

Safety Statements

Risk Statements

U.S. Regulatory Information

The product is not subject to classification according to the sources of literature known to us. Observe general safety regulations when handling chemicals.

Avoid release to the environment.

Harmful if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in aquatic environment.

Sara Listed: No

SECTION 15. OTHER INFORMATION

Department
Last Revision
Disclaimer:

R&D - ZELLX project - ZellBio GmbH
18.12.2020

For Research Use Only. Not for diagnostic, therapeutic, or other uses.

Other Information

The information contained in this document is accurate to the best of our knowledge and is provided in good faith. This document is intended only as a guide to the appropriate precautionary handling of the materials contained in this kit by properly trained personnel using this kit. Final determination or suitability of any materials is the sole responsibility of the user. ZELLX® shall not be held liable for any damage resulting from use or handling of this product.

ZELLX®
Krantorweg 48c
13503 Berlin
Tel.: +49(0)30 81309085
Fax: +49(0)30 81309086
E-Mail: support@zellx.de
Web: www.zellx.de

Made in Germany

