

Doc #: 931-HX016-XAK-R Rev: A
Release Date: 24 September 2013**1. CHEMICAL IDENTIFICATION/COMPANY**

Product Name : X-DEWAX™ SOLUTION Catalog No.: HX016-XAK

Manufacturer : BioGenex Laboratories, Inc.
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1.2 HANDLING AND STORAGE

RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:

Intended uses (main technical functions):

General purpose nuclear stain, progressive type. Used with hematoxylin and eosin staining..

Uses advised against:

This product is not recommended for any use or sector of use industrial, professional or consumer other than those previously listed as 'Intended or identified uses'.

2.0 HAZARD IDENTIFICATION**2.1 CLASSIFICATION OF THE MIXTURE**Classification in accordance with Directive 1999/45/EC~2006/8/EC (DPD):
Carc 3;R40. R10.; F; R11**2.2 LABEL ELEMENTS:**

Xn



F

This product is labelled as Corrosive

R-phrases:

R40 : limited evidence of a carcinogenic effect
R11 : Highly flammable
R10 : Flammable

Safety Phrases:

S2 : Keep out of reach of children
S7 : Keep container tightly closed
S16 : Keep away from sources of ignition- No smoking
S36/37 : Wear suitable protective clothing and gloves
S51 : Use only in well ventilated areas**2.3 OTHER HAZARDS:** Not applicable

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Part No.	Chemical Name	Synonym	CAS No.	Percent	EINECS#
HX016	Isoparaffinic hydrocarbons	-----	97675-88-2	50-70	307-662-2
	Ethanol	Alcohol	64-17-5	10-30	200-578-6
	Triton X-100	-----	9002-93-1	1-5%	Not listed

3.2 MIXTURES:

This product is a mixture.

Chemical description: Solution

Dangerous ingredients: This substance is not listed in the Annex I of Regulation (EC) No 689/2008.

INFORMATION ON TOXICOLOGICAL EFFECTS:

Contains sensitising substances.

May produce an allergic reaction.

Routes of exposure: May be absorbed by inhalation of vapour, through the skin and by ingestion.

Short-term exposure: Harmful by inhalation. Harmful in contact with skin. Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Liquid splashes in the eyes may cause irritation and reversible damage. If swallowed, may cause irritation of the throat; other effects may be the same as described in the exposure to vapours.

Long-term or repeated exposure: Repeated or prolonged contact may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

CARCINOGENICITY

CAS#	RTECS	LD50	ACGIH	IARC	NIOSH	NTP	OSHA
97675-88-2	NDA	NDA	NDA	NDA	NDA	NDA	NDA
64-17-5	NDA	3450mg/kg (Mouse)	NDA	NDA	NDA	NDA	NDA
9002-93-1	NDA	NDA	NDA	NDA	NDA	NDA	NDA

4.0 FIRST AID MEASURES**4.1 DESCRIPTION OF FIRST-AID MEASURES****4.2 MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:**

When in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation:

Vapors may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness.

First Aid measures: Move the victim to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.*Notes to Physician:* Treat symptomatically and supportively. No specific antidote exists.

Skin:

Acts as a defatting agent on skin. May cause cracking of skin, and eczema. May be absorbed through the skin. Prolonged or repeated skin contact may cause dermatitis.

First Aid Measures: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Wash clothing before reuse.

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Risk of serious damage to eyes

First Aid measures : Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids..**Ingestion:**

May cause nausea, headache, dizziness and intoxication. Gastrointestinal symptoms, including upset stomach.

First Aid measures: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person.**4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:**

Not available.

5.0 FIRE FIGHTING MEASURES**5.1 EXTINGUISHING MEDIA:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For larger fires, use water spray, fog or alcohol foam. Use agents suitable for type of surrounding fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Forms explosive mixtures with air.

5.3 ADVICE FOR FIREFIGHTERS:

- Special protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, and protective glasses or face masks and boots.
- Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

6.0 ACCIDENT RELEASE MEASURES**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

6.2 ENVIRONMENTAL PRECAUTIONS:

Do not let product enter drains

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 REFERENCE TO OTHER SECTIONS:

For exposure controls and personal protection measures, see section 8. For subsequent waste disposal, follow the recommendations in section 13.

7.0 HANDLING AND STORAGE**7.1 PRECAUTIONS FOR SAFE HANDLING:**

Wash thoroughly after handling. Remove contaminated clothing and ash before reuse. Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Avoid ingestion and inhalation. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, sparks or open flames.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Observe all federal, state and local regulations when storing or disposing of this substance.

Keep away from heat, sparks, and flame. Store refrigerated in a tightly closed container in a cool, well-ventilated area away from incompatible substances.

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For the use of this product do not exist particular recommendations apart from that already indicated.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 CONTROL PARAMETERS:**

NDA

8.2 CONTROLES DE EXPOSICIÓN:

NDA

ENVIRONMENTAL EXPOSURE CONTROLS:

NDA

9.0 PHYSICAL AND CHEMICAL PROPERTIES**9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance

Physical state	:	Solution
Colour	:	Light viscous liquid
Odour	:	odour of alcohol
Odour threshold	:	Not available
pH	:	Not applicable

Change of state

Melting point	:	Not applicable
Initial boiling point	:	Not applicable

Density

Specific gravity	:	
Decomposition temperature	:	Not applicable

Viscosity:

Viscosity (flow time)	:	Not applicable
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Volatility:

Vapour pressure	:	Not available
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Solubility (ies)

Solubility in water	:	Not miscible
Solubility in oils and fats	:	Not applicable
Partition coefficient: n-octanol/water	:	Not applicable

Flammability:

Flash point	:	Not applicable
Upper/lower flammability or explosive limits	:	Not applicable
Auto ignition temperature	:	Not applicable

Oxidizing properties: Not applicable.

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Heat of combustion : Not applicable
Solids : Not applicable
Aromatic hydrocarbons : Not applicable
VOC (supply) : Not applicable
VOC (supply) : Not applicable

The values indicated do not always coincide with the product specifications. The data for the product specifications can be found in the technical data sheet of the same. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

10.0 STABILITY AND REACTIVITY**10.1 REACTIVITY:**

Not available

10.2 CHEMICAL STABILITY:

Stable under recommended storage and handling conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

NDA

10.4 CONDITIONS TO AVOID:

Strong oxidizing agents.

10.5 INCOMPATIBLE MATERIALS:

NDA

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Fire or high temperatures may form toxic and corrosive vapors

11.0 TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available.

12.0 ECOLOGICAL INFORMATION

No experimental eco-toxicological data on the preparation as such is available.

12.1 TOXICITY

TOXICITY:	CL50 (OECD 203)	CE50 (OECD 202)	CE50 (OECD 201) for
	NDA NDA	NDA NDA	NDA NDA

12.2 PERSISTENCE AND DEGRADABILITY:

Not available.

12.3 BIOACCUMULATIVE POTENTIAL:

Not available.

12.4 MOBILITY IN SOIL:

Not available.

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Not available.

12.6 OTHER ADVERSE EFFECTS:

Ozone depletion potential : Not available.
Photochemical ozone creation potential : Not available.
Earth global warming potential : In case of fire or incineration liberates CO2.
Endocrine disrupting potential : Not available.

13.0 DISPOSAL CONSIDERATIONS**13.1 WASTE TREATMENT METHODS:** Directive 2008/98/EC:

Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: Directive 94/62/EC~2005/20/EC, Decision 2000/532/EC:

Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. Ensure the container is completely empty before throwing it away.

Procedures for neutralising or destroying the product:

In accordance with local regulations. Do not incinerate closed containers.

14.0 TRANSPORT INFORMATION

14.1 UN NUMBER : NDA
14.2 UN PROPER SHIPPING NAME : NOT APPLICABLE
14.3 TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP : Not applicable
14.4 ENVIRONMENTAL HAZARDS : Not applicable.
14.5 SPECIAL PRECAUTIONS FOR USER : Not available.
**14.6 TRANSPORT IN BULK ACCORDING TO ANNEX II OF
MARPOL 73/78 AND THE IBC CODE** : Not applicable

15.0 REGULATORY INFORMATION**15.1 EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:** NA

Tactile warning of danger: NA

RESTRICTIONS:

Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006: Not applicable.

Recommended restrictions on use: Not applicable.

OTHER REGULATIONS: Not available**15.2 CHEMICAL SAFETY ASSESSMENT:** Not available.

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R-phrases according the Directive 67/548/EEC~2001/59/EC (DSD), Annex III:

R40 : limited evidence of a carcinogenic effect

R11 : Highly flammable

Note H :

The classification and label shown for this substance applies to the dangerous property(ies) indicated by the risk phrase(s) in combination with the category(ies) of danger shown.

H302: Harmful if swallowed,

H315: Causes skin irritation

H319: Causes serious eye irritation.

Note P :

The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1% w/w benzene (EC No. 200-753-7).

Note S :

This substance may not require a label according to article 23 d) of Regulation (EC) No. 1272/2008 (see section 1.3 of annex I to that Regulation).

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:

- European Chemicals Bureau: Existing Chemicals, <http://ecb.jrc.ec.europa.eu/esis/>
- Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
- Threshold Limit Values, (AGCIH, 2010).

MATERIAL SAFETY DATA SHEET REGULATIONS:

Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex I of Regulation (EU) No. 453/2010.