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

1.1 Product identifiers

Product name : OX BioTrap
 Product number : BioT
 Brand : Hidex
 REACH NO. : A registration number is not available for this mixture. All the substances used within the mixture are either; Pre-REACH registered, fully REACH Registered, exempt from registration or the annual tonnage does not require registration.

Unique Formula Identifier Code: TG10-207K-N00Q-3055

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

Sector of Use: SU24 Scientific Research and Development ONLY. Not for consumer use.
 Application of the substance / the mixture: Liquid Scintillation Cocktail.

1.3 Details of the supplier of the safety data sheet

Supplier : Hidex Chemicals Oy
Address : Lemminkäisenkatu 62, FIN-20520, Turku, Finland
Telephone : +358 10 843 5570
Website : www.hidex.com
E-mail address : chemicals@hidex.com

1.4 Emergency telephone numbers

Call your local poison centre quoting the Unique Formula Identifier Code given in section 1.1.

Poison Centres

Country	Language	European Poison Centre	Phone	Website
Belgium	French	Centre Antipoisons	070 245 245 (free, 24/7)	https://www.centreantipoisons.be
	Dutch	Antigif centrum	070 245 245 (free, 24/7)	http://www.antigifcentrum.be
Finland	Finnish Swedish English	Helsinki University Hospital– Poison Information Centre	0800 147 111 (free, 24/7) 09 471 977 (charged)	https://www.hus.fi/en/potilaalle/sairaalat-ja-toimipisteet/myrkytystietokeskus
France	French English	Service national d'assistance réglementaire REACH	+ 33 (0) 1 45 42 59 59 (free, 24/7) This number takes you through to local poison centre numbers for the different regions	https://reach-info.ineris.fr/Numero_orfila
Germany	German English	Local Poison Centres:		
		Berlin	+49 (0) 30 19240	https://giftnotruf.charite.de
		Bonn	+49 (0) 228 19240	http://www.gizbonn.de
		Erfurt	+49 (0) 361 730730	https://www.gqiz-erfurt.de/home.html
		Freiburg	+49 (0) 761 19240	https://www.uniklinik-freiburg.de/giftberatung.html
		Gottingen	+49 (0) 551 19240	https://www.giz-nord.de/cms/index.php
		Homburg/Saer	+49 (0) 6841 19240	http://www.uniklinikum-saarland.de/de/einrichtungen/kliniken_institute/
		Mainz	+49 (0) 6131 19240	http://www.giftinfo.uni-mainz.de
Munchen	+49 (0) 89 19240	http://www.toxinfo.med.tum.de		

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Poison Centres – Call your local poison centre quoting the Unique Formula Identifier Code given in section 1.1.

Country	Language	European Poison Centre	Phone	Website
Hungary	Hungarian	Health toxicology information service	+36 80 201 199 (free 24/7 - only from Hungary) +36 1 476 6464 (24/7, can be called for a normal fee from abroad)	https://www.nnk.gov.hu/index.php/kemiai-biztonsagi-es-kompetens-hatosagi-fo/egeszseguvyi-toxikologiai-tajekoztat-szolgalat
Italy	Italian	Centro Antivelni firenze	+39 055 794 7819 (24/7)	Presentazione (antivelni.altervista.org)
Ireland	English	Poisons information Centre of Ireland	+353 1 809 21 66 (8am-10pm / 7 days a week) +353 1 809 25 66 (24/7, healthcare profession only)	https://www.poisons.ie/
Lithuania	Lithuanian English	Poison Information Bureau part of The State Medicines Control Agency	+370 8-5 236 20 52 (free, 24/7)	http://www.apsinuodijau.lt/pirma-pagalba/
Netherlands	French English Dutch	National Poisons Information Center / University Medical Center Utrecht	+31 88 75 585 61	https://www.umcutrecht.nl/nl
Poland	Polish	National Poison Information Centres:		
		Krakow	+48 12 411 99 99	http://www.oit.cm.uj.edu.pl
		Gdansk	+48 58 682 04 04	http://www.pctox.pl/new/
		Poznań	+48 61 847 69 46	N/A
Romania	Romanian	National Institute for Public Health, Ministry of Health		
		CNMRMC	+40 213 183 606	N/A
		Spitalul Clinic de Urgenta Bucuresti	+40 215 992 300 int. 291	N/A
		Spitalul Clinic Judetean de Urgenta Targu Mures	+40 265.212.111	N/A
Slovakia	Slovak	National Toxicological Information Centre	+421 2 5477 4166	http://www.ntic.sk/ntic_en.php
Spain	Spanish	National Emergency Telephone Number of Spanish Poison Centre	+34 91 562 04 20	https://www.miteco.gob.es/es/calidad-y-evaluacion-ambiental/temas/productos-quimicos/porta-reach-clp/novedades/detalle_novedades.aspx?id=tcm:30-193752-16
Sweden	Swedish English	Swedish Poison Information Centre	112 (24/7) Emergency 010-456 6700 Less urgent	In English - Giftinformationscentralen
UK	English	National Poisons Information Service NHS	+44 (0) 344 892 0111 - Healthcare Professionals ONLY 111 – General public	https://www.npis.org/Industrynotify.html https://www.nhs.uk/nhs-services/

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to CLP Regulation (EC) No 1272/2008

Flammable liquid	Category 3	H226
Acute oral toxicity	Category 4	H302
Skin corrosion / irritation	Category 1A	H314
Skin Sensitization	Category 1B	H317
Serious eye damage / eye irritation 1	Category 1	H318

For the full text of the H-Statements mentioned here - see section 16

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



GHS02
Danger



GHS05



GHS07

Signal word

Contains 3-Methoxypropylamine

Hazard statements

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage

Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE / DOCTOR.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

2.3 Results of PBT and vPvB assessment

This product does not contain any substances that meet the criteria for PBT or vPvB.

Endocrine Disrupting Properties

This product does not contain any substances that have endocrine disrupting properties.

SECTION 3: Composition / Information on Ingredients

3.1 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Hazardous components:

3-Methoxypropylamine						
CAS #: 5332-73-0	Flammable liquid	Category 3	H226	>95	ATE:	N/A
EC NUMBER: 226-241-3	Acute oral toxicity	Category 4	H302	%	M Factor:	N/A
REACH: 01-2119972298-23-xxxx	Serious eye damage / eye irritation 1	Category 1	H318		SCL:	N/A
	Skin corrosion / irritation	Category 1A	H314			
	Skin Sensitization	Category 1B	H317			

For the full text of the H-Statements mentioned here - see section 16

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General information:

Consult a doctor. Show this safety data sheet to the doctor in attendance.

If inhaled:

Move person into fresh air.

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In case of contact with skin contact: Wash off with plenty of water.
In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a doctor. Protect unharmed eye.
If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed: No further information available.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing agents: Carbon Dioxide, dry powder or water spray.
Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for fire-fighters

Special Protective equipment: Wear self-contained respiratory protective device and a fully protective suit.
Further Information: Cool closed containers exposed to fire with water spray. Contaminated water must not be discharged into drains.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment and ensure adequate ventilation.
Keep unprotected persons away.
Special precautions: Not applicable.

6.2 Environmental precautions: Inform respective authorities in case of seepage into water course. Do not allow to enter surface or ground water. Dilute with plenty of water and collect spillage.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Pick up mechanically.
Dispose of in according to local regulations (see section 13).

6.4 Reference to other sections See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advice on safe handling: Wear personal protective equipment.
Avoid contact with skin and eyes and clothing.
Avoid breathing
Ensure good ventilation/exhaustion at the workplace.
Use only in area provided with appropriate exhaust ventilation.
Use explosion-proof equipment and non-spark tools.
Prevent formation of aerosols.
Information about fire and explosion protection: Keep away from sources of ignition.
Take precautionary measures against static discharges
Do not smoke.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Information about storage in one common storage facility: Store in a dry, cool and well ventilated place

Further information about storage conditions: Keep container tightly sealed.
Protect from exposure to the light.

7.3 Specific end use(s)

Advised temperature of use: 10-25°C.
Uses identified and documented.

SECTION 8: Exposure Controls / Personal Protection

8.1 Control parameters

Components with workplace control parameters: None

8.2 Exposure controls

General protective and hygienic measures: Handle in accordance with good industrial hygiene and safety practice.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.
Wear suitable gloves, body and eye protection and a face shield.

Personal Protective Equipment:

Respiratory protection:

Skin protection:

No personal respiratory protective equipment normally required.
Handle with protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Splash contact

Material: Nitrile-rubber. Minimum layer thickness: 0.4 mm. Break through time: 30 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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).

Body protection:

Protective work clothing – complete suit protecting against chemicals. The type of protective clothing must be selected according to the concentration and amount of the dangerous substance at the specified workplace.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:

Liquid

Form:

Colourless

Colour:

According to specification

Odour:

Characteristic

Odour threshold:

Not determined

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pH-value: 11.4-11.9
Melting point/Melting range: -65°C
Boiling point/Boiling range: 118°C
Flash point: 24°C
Flammability (solid, gaseous): Not applicable
Ignition temperature: Not determined
Decomposition temperature: Not determined
Self-igniting: Product is not self-igniting
Danger of explosion: Product presents an explosion hazard. **Cont...**

Explosion limits:
Upper explosion limit: 12.3%(V)
Lower explosion limit: 2.3%(V)
Vapour pressure: 13mbar @ 20°C
Relative density: 0.870 gm/cm³
Vapour density: Not determined
Evaporation rate: Not determined
Solubility in / Miscibility with water: Partially miscible with water
Particle size: Not applicable
Partition coefficient (n-octanol/water): Not determined
Viscosity:
Dynamic: Not determined
Kinematic: Not determined

9.2 Other information

Information with regard to physical hazard class: No additional information
Other Safety Characteristics: No additional information

SECTION 10: Stability and Reactivity

10.1 Reactivity: No data available
10.2 Chemical stability Stable under recommended storage conditions.
 No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions: Reacts with strong oxidising agents.
 Strong exothermic reaction with acids.
10.4 Conditions to avoid Toxic fumes may be released if heated above decomposition point.
 Keep away from ignition sources.
10.5 Incompatible materials: As above.
10.6 Hazardous decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxides.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Component	CAS Number	LD50 / 48 hours
3-Methoxypropylamine	5332-73-0	LD50 rat >688.1 mg/kg (rat) oral

Skin corrosion / irritation: May cause sensitization by skin contact and causes severe skin damage.
Serious eye damage / eye irritation: Causes serious eye damage.
Respiratory sensitisation: Based on available data, classification criteria not met
Germ cell mutagenicity: Based on available data, classification criteria not met.
Carcinogenicity: Based on available data, classification criteria not met.

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Reproductive toxicity: Based on available data, classification criteria not met.
Specific Target Organ Toxicity – Single Exposure: Based on available data, classification criteria not met.
Specific Target Organ Toxicity – Repeated Exposure: Based on available data, classification criteria not met.
Aspiration hazard: Harmful if swallowed.
Additional information: The toxicological properties have not been fully investigated.

SECTION 12: Ecological Information

12.1 Toxicity

Aquatic toxicity:

Component	CAS Number	Fresh water fish
3-Methoxypropylamine	5332-73-0	146.6 mg/l/96 h

12.2 Persistence and degradability: Not readily biodegradable.
12.3 Bio accumulative potential: No further relevant information available.
12.4 Mobility in soil: No further relevant information available.
12.5 Results of PBT and vPvB Assessment: No relevant information available.
12.6 Other adverse effects

Additional ecological information: Harmful effect due to pH shift. Discharge into the environment must be avoided.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product: Must not be disposed together with household waste.
Uncleaned Packaging: Disposal must be made according to official regulations.

SECTION 14: Transport Information

14.1 UN-Number
ADR, ADN, IMDG, IATA UN2734

14.2 UN proper shipping name -
ADR, ADN, IMDG, IATA Amines, liquid, corrosive, flammable, N.O.S (3-Methoxypropylamine)

14.3 Transport hazard class(es)
ADR, ADN, IMDG, IATA 8
Class 3

14.4 Packing group
ADR, IMDG, IATA I

14.5 Environmental hazards:
Marine pollutant: No

14.6 Special precautions for user Warning: FLAMMABLE, CORROSIVE liquids.
Danger code (Kemler): 30
EMS Number: F-E,S-E

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Limited quantities (LQ) 0
Excepted quantities (EQ) E0
Maximum net quantity per inner packaging: 0
Maximum net quantity per outer packaging: 0
Transport category 3
Tunnel restriction code D/E
IMDG

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Limited quantities (LQ)	0
Excepted quantities (EQ) Code:	E0
Maximum net quantity per inner packaging:	0
Maximum net quantity per outer packaging:	0
UN "Model Regulation":	UN2734, AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (3-Methoxypropylamine), 8, 3, I

SECTION 15: Regulatory Information

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

No further information available.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

Section 16: Other Information

Hazard statements

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage

Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE / DOCTOR.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

This is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

NIOSH: National Institute of Occupational Safety and Health

LL50: Loading rate of test substance resulting in 50% mortality)

LD50: Lethal dose, 50 percent

LC50: Lethal Concentration, 50 percent

ATE: Acute Toxicity Estimate

M Factor: Multiplying factor for substances that are highly toxic to aquatic environment

SCL: Specific Concentration Limit: a concentration limit that is specific to a substance and takes precedence over generic concentration limit or cut-off