



Material Safety Data Sheet

1. Company/Undertaking Identification

Supplier: Life Technologies

5791 VAN ALLEN WAY

PO BOX 6482

CARLSBAD, CA 92008 +1 760 603 7200

LIFE TECHNOLOGIES LIMITED

3 FOUNTAIN DRIVE

INCHINNAN BUSINESS PARK

PAISLEY, PA4 9RF

SCOTLAND

44-141 814-6100

24 hour Emergency Response: 866-536-0631

301-431-8585

Outside of the U.S. ++1-301-431-8585

For research use only. Not intended for human or animal diagnostic or therapeutic uses

2. Identification of the substance/mixture

Product name: RapidFinder[™] Sheep ID Kit

Product components: Sheep Master Mix

General Master Mix

Positive Control

References: Individual references are not available

Product code: A24395

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3. Hazards Identification

In accordance with local and national regulations,

The product is classified and labelled in accordance with Directive 1999/45/EC. REGULATION (EC) No 1272/2008. Classification according to EU Directives 67/548/EEC or 1999/45/EC.

Principle Routes of Exposure/Potential Health effects

Eyes May cause eye irritation with susceptible persons.

Inhalation May be harmful by inhalation.

Skin May cause skin irritation in susceptible persons.

Ingestion May be harmful if swallowed.

Specific effects

Carcinogenic effects: none
Mutagenic effects: none
Reproductive toxicity: none
Sensitisation: none

Target Organ Effects: No known effects under normal use conditions





Fire-fighting measures

Suitable extinguishing media Water

Foam

Dry chemical

Carbon dioxide (CO2)

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Hazardous decomposition Carbon oxides

Products

Special protective equipment for

fire-fighters

Carbon Oxides

Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if

necessary.

Accidental release measures

Personal precautions Ensure adequate ventilation.

Avoid contact with skin, eyes and

clothing.

Environmental precautions Try to prevent the material from entering

drains or water courses.

Methods for cleaning up Contain spillage, and then collect with

non-combustible absorbent material place in container for disposal according to local/national regulations (see section

13).

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Handling and storage

handling

Precautions for safe Handle in accordance with good industrial hygiene

and safety practice. Wear personal protective

equipment.

Storage conditions See product label for specific storage requirements.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit: We are not aware of any national exposure limit.

Eye protection Safety glasses with side-shields.

Hand protection Wear suitable gloves. Please observe the

instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Provide adequate ventilation. Respiratory protection

Skin protection Lab coat

Physical and chemical properties

Physical state: liquid

Colour: This information is not available. **Odour:** This information is not available.

Odour Threshold: This information is not available.

pH: This information is not available.

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Boiling point: This information is not available.

Melting point: This information is not available.

Vapour pressure: This information is not available.

Water solubility: This information is not available.

Flash point: This information is not available.

Explosion limits: This information is not available.

Density: This information is not available.

Percent volatile: This information is not available.

Volatile organic compounds (VOC) content: This information is not available.

Stability and reactivity

Hazardous decomposition products: Carbon oxides

Toxicological information

No data available.

Further information: There is no data available for this product.

Ecological information

We have no quantitative data concerning the ecological effects of this product. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Environmental precautions

Try to prevent the material from entering drains or water courses.

Disposal methods

Dispose of in accordance with local regulations.

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Transport information

IATA-DGR Not dangerous goods
IMDG Not dangerous goods
ADR Not dangerous goods

Regulatory information

Labelling

Under Directive 1999/45/EC, this component does not need to be classified nor labelled.

EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES (EINECS):

All components of this substance are listed on or are exempt from the inventory.

Other information

Disclaimer: This MSDS has been prepared using information from sources considered technically reliable. It should not be relied upon as a product specification. The company makes no warranty of any kind, expressed or implied, concerning the safe use of this material in your process or in combination with other chemical substances. Every user of the product is responsible for evaluating its own processes and conditions of use and selecting appropriate protective measures for employee exposure.





Product name: RapidFinder[™] Sheep ID Kit

Component name: Positive Control

Reference: Individual references are not available

Product code: A24395

Composition/information on ingredients

This product is not hazardous according to 29 CFR 1910.1200 (OSHA Hazard Communication Standard).

First aid measures

Eye contact: Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes. If symptoms persist, call a

physician.

Inhalation: Move to fresh air. If symptoms persist, call a physician.

Skin contact: Rinse with plenty of water. If symptoms arise, call a

physician.

Ingestión: If swallowed, DO NOT induce vomiting unless directed to do

so by medical personnel. Rinse mouth with water. Never

give anything by mouth to an unconscious person.

Get medical attention if symptoms occur.

Fire-fighting measures

Suitable extinguishing media: Water

Foam

Dry chemical

Carbon dioxide (CO2)

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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Hazardous decomposition Carbon oxides

Products:

for fire-fighters:

Special protective equipment Use personal protective equipment.

Wear self contained breathing apparatus for fire fighting if

necessary.

Accidental release measures

Personal precautions Ensure adequate ventilation.

Avoid contact with skin, eyes and

clothing.

Environmental precautions Try to prevent the material from

entering drains or water courses.

Methods for cleaning up Contain spillage, and then collect with

non-combustible absorbent material place in container for disposal according to local/national regulations (see

section 13).

Handling and storage

Precautions for safe handling Handle in accordance with good

industrial hygiene and safety practice. Wear personal protective equipment.

Storage conditions See product label for specific storage

requirements.

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Exposure controls/personal protection

Exposure limit: We are not aware of any national exposure limit.

Eye protection Safety glasses with side-shields.

Hand protection Wear suitable gloves. Please observe the instructions

regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of

cuts, abrasion, and the contact time.

Respiratory protection Provide adequate ventilation.

Skin protection Lab coat

Physical and chemical properties

Physical state: liquid

Colour: This information is not available. **Odour:** This information is not available.

Odour Threshold: This information is not available.

pH: This information is not available.

Boiling point: This information is not available.

Melting point: This information is not available.

Vapour pressure: This information is not available.

Water solubility: This information is not available.

Flash point: This information is not available.

Explosion limits: This information is not available.

Density: This information is not available.

Percent volatile: This information is not available.

Volatile organic compounds (VOC) content: This information is not available.

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Stability and reactivity

Hazardous decomposition products Carbon oxides

Toxicological information

No data available.

Further information

There is no data available for this product.

Ecological information

We have no quantitative data concerning the ecological effects of this product. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Environmental precautions

Try to prevent the material from entering drains or water courses.

Disposal methods

Dispose of in accordance with local regulations.

Transport information

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Regulatory information

Labelling

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Other information

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Product name: RapidFinder[™] Sheep ID Kit

Component name: General Master Mix

Reference: Individual references are not available

Product code: A24395

Composition/information on ingredients

Hazardous components	CAS-No.	EC-No.(EINECS-No.)	Weight %	Classification
Registered mark	Owner		1-10%	Xi R36/37/38 Irritant

Hazards identification

In accordance with Directive 1999/45/EC, the product does not need to be classified nor labelled.

First aid measures

Eye contact Immediately flush eyes for at least 15 minutes. Get

medical attention.

Inhalation Remove to fresh air immediately. Get medical attention

immediately. If not breathing, give artificial

respiration.

Skin contact Rinse immediately with plenty of water and seek

medical advice.

Remove and wash contaminated clothing before re-use.

Ingestión If swallowed, call a poison control centre or doctor

immediately. Never give anything by mouth to an

unconscious person.





Fire-fighting measures

Suitable extinguishing media: Water

Foam

Dry chemical

Carbon dioxide (CO2)

Hazardous decomposition Products: Carbon oxides

Nitrogen oxides (NOx)

Special protective equipment for

fire-fighters:

Use personal protective equipment. Wear self contained

breathing apparatus for fire

fighting if necessary.

Accidental release measures

Personal precautions Ensure adequate ventilation.

Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray

Environmental precautions Should not be released into the

environment. Prevent product from

entering drains.

Methods for cleaning up Clean contaminated floors and

objects thoroughly while observing environmental regulations. Ensure

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adequate ventilation.





Handling and storage

Precautions for

handling

safe Use only in area provided with appropriate

exhaust ventilation. Wear personal protective

equipment.

Storage conditions

Protect against physical damage. Isolate from incompatible substances. Store in original container. See product label for specific

storage requirements.

Exposure controls/personal protection

Hazardous components	Regulation	Type of listing	Value
Sodium Azide	Spain	VLA-ED	0.1 mg/m ³
	Spain	VLA-EC	0.3 mg/m ³
	Spain	VLA-EC vapor	0.18 mg/m ³
			0.1 ppm
Hydrazoic acid	European Union- IOELVs	STEL	0.3 mg/m ³
	European Union - IOELVs	TWA	0.1 mg/m ³
Glycerol	United Kingdom	STELmist	30 mg/m ³
	United Kingdom	TWAmist	10 mg/m ³

Personal protection

Eye protection Chemical resistant goggles must be worn.

Ensure that eyewash stations and safety

showers are close to the workstation location.

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Hand protection Wear s

Wear suitable gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact

time.

Respiratory protection Avoid breathing vapors, mist or gas. When

workers are facing concentrations above the exposure limit they must use appropriate certified respirators. For unknown concentrations or Immediately. Dangerous to Life or Health (IDLH), use a full-facepiece positive pressure air supplied respirator.

Skin protection Wear su

Wear suitable protective clothing.

Engineering measures Maintain air concentrations

occupational exposure standards. Use only in area provided with appropriate exhaust

below

ventilation.

Physical and chemical properties

Physical state: liquid

Colour: This information is not available. **Odour:** This information is not available.

Odour Threshold: This information is not available.

pH: This information is not available.

Boiling point: This information is not available.

Melting point: This information is not available.

Vapour pressure: This information is not available.

Water solubility: This information is not available.

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Flash point: This information is not available.

Explosion limits: This information is not available.

Density: This information is not available.

Percent volatile: This information is not available.

Volatile organic compounds (VOC) content: This information is not available.

Stability and reactivity

Conditions to avoid Keep away from open flames,

hot surfaces and sources of

ignition

Materials to avoid Strong oxidizing agents, Bases

Hazardous decomposition products: Nitrogen oxides (NOx), Carbon

oxides

Toxicology information

Hazardous components without disposable information: Propietary

Hazardous components: Propietary

Acute oral toxicity: DL50 rat 12,600 mg/kg

Acute inhalation toxicity: CL50 rat 1 h > 570 mg/m3 **Acute dermal toxicity:** DL50 rat > 21,900 mg/kg

Ecological information

We have no quantitative data concerning the ecological effects of this product. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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Propietary Component:

Toxicity to fis: LC50 Oncorhynchus mykiss (rainbow trout) 96 h 51,000 -

57,000 mg/l

Toxicity to daphnia: EC50 Daphnia magna (Water flea) 24 h > 500 mg/l

Disposal considerations

Environmental precautions:

Should not be released into the environment. Prevent product from entering drains.

Disposal methods

Dispose of in accordance with local regulations.

General advice:

DISPOSAL CONSIDERATIONS. The product has to be disposed of as laboratory chemical in accordance with local regulations.

Transport information

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Regulatory information

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National Inventory Status - European Union

EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES (EINECS)

All components of this substance are listed on or are exempt from the inventory.

EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES (ELINCS)

All components of this substance are listed on or are exempt from the inventory.

EUROPEAN NO-LONGER POLYMERS LIST (NLP)

All components of this substance are listed on or are exempt from the inventory.

Other information

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Text of R-phrases mentioned in Section 2

R22 Harmful if swallowed.

R36/37/38, R52 Irritating to eyes, respiratory system and skin. Harmful to aquatic organisms.





Product name: RapidFinder[™] Sheep ID Kit

Component name: Sheep Master Mix

Reference: Individual references are not available

Product code: A24395

Composition/information on ingredients

This product is not hazardous according to 29 CFR 1910.1200 (OSHA Hazard Communication Standard).

First aid measures

Eye contact Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes. If symptoms persist,

call a physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Skin contact Rinse with plenty of water. If symptoms arise, call a

physician.

Ingestión If swallowed, DO NOT induce vomiting unless directed

to do so by medical personnel. Rinse mouth with water. Never give anything by mouth to an unconscious person.

Get medical attention if symptoms occur.

Fire-fighting measures

Suitable extinguishing media: Water

Foam

Dry chemical

Carbon dioxide (CO2)

Hazardous decomposition Products: Carbon oxides

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Special protective equipment for Use personal protective **fire-fighters:** equipment. Wear self contained

breathing apparatus for fire

fighting if necessary.

Accidental release measures

Personal precautions Ensure adequate ventilation.

Avoid contact with skin, eyes and

clothing.

Environmental precautionsTry to prevent the material from

entering drains or water courses.

Methods for cleaning up Contain spillage, and then collect

with non-combustible absorbent material place in container for disposal according to local/national

regulations (see section 13).

Handling and storage

Precautions for safe Handle in accordance with good industrial

handling hygiene and safety practice. Wear personal

protective equipment.

Storage conditions See product label for specific storage

requirements.





Exposure controls/personal protection

Exposure limit: We are not aware of any national exposure limit.

Eye protection Safety glasses with side-shields.

Hand protection Wear suitable gloves.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the

contact time.

Respiratory protection Provide adequate ventilation.

Skin protection Lab coat

Physical and chemical properties

Physical state: liquid

Colour: This information is not available. **Odour:** This information is not available.

Odour Threshold: This information is not available.

pH: This information is not available.

Boiling point: This information is not available.

Melting point: This information is not available.

Vapour pressure: This information is not available.

Water solubility: This information is not available.

Flash point: This information is not available.

Explosion limits: This information is not available.

Density: This information is not available.

Percent volatile: This information is not available.

Volatile organic compounds (VOC) content: This information is not available.

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Stability and reactivity

Hazardous decomposition products Carbon oxides

Toxicological information

No data available.

Further information

There is no data available for this product.

Ecological information

We have no quantitative data concerning the ecological effects of this product. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Environmental precautions

Try to prevent the material from entering drains or water courses.

Disposal methods

Dispose of in accordance with local regulations.

TRANSPORT INFORMATION

IATA-DGR Not dangerous goodsIMDG Not dangerous goodsADR Not dangerous goods

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Regulatory information Labelling

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