

SAFETY DATA SHEET

New Zealand

Section 1. Identification

Product name

Oligosynt™ T 40s 15, 10 x 15 µmole

Catalogue Number 17-5213-01

Not available.

Product type Liquid.

Identified uses

Other means of identification

Analytical chemistry. Use in laboratories

Scientific research and development

Supplier

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Cytiva New Zealand

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New Zealand

Emergency telephone number (with hours of operation)

0800 733 893

(10am - 7pm)

Section 2. Hazards identification

HSNO Classification 3.1 - FLAMMABLE LIQUIDS - Category B

6.1 - ACUTE TOXICITY (oral) - Category B 6.1 - ACUTE TOXICITY (dermal) - Category D 6.1 - ACUTE TOXICITY (inhalation) - Category C 6.4 - EYE IRRITATION - Category A (Irritant)

9.2 - SOIL ECOTOXICITY - Category D

9.3 - TERRESTRIAL VERTEBRATE ECOTOXICITY - Category A

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

GHS label elements

Signal word Danger

Hazard statements Highly flammable liquid and vapour.

Fatal if swallowed. Toxic if inhaled.

Harmful in contact with skin. Causes serious eye irritation. Harmful to the soil environment. Very toxic to terrestrial vertebrates.

Precautionary statements

Prevention Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from

ignition sources such as heat/sparks/open flame. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapour. Do not eat,

drink or smoke when using this product. Wash thoroughly after handling.

Collect spillage. Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Response

Rinse mouth. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash with plenty of soap and water. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

Article Number 17521301

Validation date 6 March 2020

Page: 1/8

Storage Store locked up. Store in a well-ventilated place. Keep cool.

Disposal Dispose of contents and container in accordance with all local, regional, national and international

regulations.

Symbol







Other hazards which do not result in classification

None known

Section 3. Composition/information on ingredients

Substance/mixture Mixture

Other means of identification Not available.

CAS number/other identifiers

CAS number Not applicable.

EC number Mixture.

Product code 17-5213-01

Ingredient name%CAS numberacetonitrile70 - 8575-05-8

There are no additional ingredients present 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.

Section 4. First aid measures

Description of necessary first aid measures

Inhalation Get medical attention immediately. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.

Ingestion Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Remove

victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check

for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical

attention.

Most important symptoms/effects, acute and delayed

Potential acute health effects

InhalationToxic if inhaled.IngestionFatal if swallowed.

Skin contactHarmful in contact with skin.Eye contactCauses serious eye irritation.

Over-exposure signs/symptoms

InhalationNo specific data.IngestionNo specific data.SkinNo specific data.

Adverse symptoms may include the following: Eves

> pain or irritation watering redness

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

Specific treatments Not available.

Notes to physician 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.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. If it is suspected

that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear

aloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable Use dry chemical, CO2, water spray (fog) or foam.

Not suitable Do not use water jet.

chemical

Specific hazards arising from the Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or

explosion hazard

Hazardous thermal decomposition products Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

Not available.

Hazchem code

Special precautions for firefighters

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for

fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

equipment and emergency procedures

Personal precautions, protective 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

Avoid dispersal of spilt 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 material for containment and cleaning up

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. Use spark-proof tools and explosion-proof equipment.

Dispose of via a licensed waste disposal contractor.

Large spill Stop leak if without risk. Move containers from spill area. Approach the release from upwind.

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). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact

information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). 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. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Page: 3/8

Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 4 to 30°C (39.2 to 86°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name

acetonitrile

Exposure limits

NZ HSWA 2015 (New Zealand, 11/2018).

Absorbed through skin.

WES-STEL: 101 mg/m³ 15 minutes. WES-STEL: 60 ppm 15 minutes. WES-TWA: 67 mg/m³ 8 hours. WES-TWA: 40 ppm 8 hours.

Appropriate engineering

controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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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.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected

respirator.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Eye protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Section 9. Physical and chemical properties

Appearance

Physical state Liquid. [(White suspension in closed column.)]

Colour solution: Colourless. / Suspension: White.

Odour Ethereal. / Sweetish.

Odour threshold 40 ppm

pH Not applicable.

Melting point Not available.

Boiling point Not available.

Flash point Closed cup: 15 to 20°C (59 to 68°F)

Burning rateNot applicable.Burning timeNot applicable.Evaporation rateNot available.Flammability (solid, gas)Not available.Lower and upper explosiveNot available.

(flammable) limits

Vapour pressure Not available. Vapour density Not available. Relative density Not available Solubility Not available. Solubility in water Not available. Partition coefficient: n-octanol/ Not available.

water

Auto-ignition temperature Not available. **Decomposition temperature** Not available. SADT Not available. Not available. Viscosity Flow time (ISO 2431) Not available.

Aerosol product

Type of aerosol Not applicable. Heat of combustion Not available. Ignition distance Not applicable. **Enclosed space ignition - Time** Not applicable. equivalent

Enclosed space ignition -**Deflagration density**

Not applicable.

Flame height Not applicable. Flame duration Not applicable.

Section 10. Stability and reactivity

Chemical stability The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder,

drill, grind or expose containers to heat or sources of ignition.

Incompatible materials Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

Section 11. Toxicological information

Information on likely routes of exposure

Inhalation Toxic if inhaled Ingestion Fatal if swallowed.

Skin contact Harmful in contact with skin. Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation No specific data. Ingestion No specific data. Skin contact No specific data.

Eye contact Adverse symptoms may include the following:

pain or irritation watering

redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
acetonitrile	LC50 Inhalation Gas.	Rat	17100 ppm	4 hours
	LD50 Dermal	Rabbit	980 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-

Irritation/Corrosion

Not available.



Page: 5/8

Sensitisation

Not available.

Potential chronic health effects

General No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. Eye contact 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.

Chronic toxicity

Not available.

Carcinogenicity

Not available.

Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity

Not available.

Aspiration hazard

Not available.

Numerical measures of toxicity

Acute toxicity estimates

 Route
 ATE value

 Oral
 6.45 mg/kg

 Dermal
 1264.52 mg/kg

 Inhalation (vapours)
 3.87 mg/l

Section 12. Ecological information

Ecotoxicity No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
acetonitrile	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days

Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
acetonitrile	-	98%; 28 day(s)	Readily

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
acetonitrile	-0.34	0.3 to 0.4	low



Mobility in soil

Soil/water partition coefficient (Koc) Not available.

Other adverse effects No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimised wherever possible. 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information					
Regulatory information	UN number	Proper shipping na	ame	Classes	PG*
New Zealand Class	UN1648	Acetonitrile mixture		3	II
	PLAMAGE PLOYED		- No.		
IATA Class	UN1648	Acetonitrile mixture		3	II
			- No.		
IMDG Class	UN1648	Acetonitrile mixture		3	II
			- No.		

PG* : Packing group

Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of Marpol and the IBC Code Not available.

Section 15. Regulatory information

HSNO Approval Number HSR002596

HSNO Group StandardLaboratory Chemicals and Reagent Kits

HSNO Classification 3.1 - FLAMMABLE LIQUIDS - Category B

6.1 - ACUTE TOXICITY (oral) - Category B 6.1 - ACUTE TOXICITY (dermal) - Category D 6.1 - ACUTE TOXICITY (inhalation) - Category C

6.4 - EYE IRRITATION - Category A (Irritant) 9.2 - SOIL ECOTOXICITY - Category D

9.3 - TERRESTRIAL VERTEBRATE ECOTOXICITY - Category A

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.



UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

New ZealandNot determined.AustraliaNot determined.

Europe All components are listed or exempted.

United States All components are listed or exempted.

Canada inventoryNot determined.ChinaNot determined.

Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

Malaysia Not determined

Section 16. Other information

History

Date of printing6 May 2020Date of issue/ Date of revision06 March 2020Date of previous issue1/19/2017

Version 4

Key to abbreviations ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified

by the Protocol of 1978. ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

References Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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.

Version 4