Starflex Mono 100

Safety Data Sheet

Date: November 2025

SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product:

Product Name:	Starflex Mono 100
Other Names:	N/A
Product Code:	SFMG
HSNO Approval:	HSR002662
Approval Description:	Surface Coatings and Colorants (Flammable)
UN Number:	UN1263
Proper Shipping Name:	PAINT RELATED MATERIAL
DG Class:	3
Packing Group:	III
Hazchem Code:	3YE
Uses:	Polyurethane Coating

Company Details:

Company:	Sealco Limited
Address:	Unit 5, 18 Taurus Pl, Bromley, Christchurch
Telephone:	03 366 9495, 0508 292 837
Website:	www.sealco.co.nz

Emergency Number:

National Poisons Centre
0800 764 766

SECTION 2 – HAZARDS IDENTIFICATION

Approval:

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002662, Surface Coatings and Colorants (Flammable). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

Hazard classification and indication:

Flammable liquid, category 3	**H226** - Flammable liquid and vapour.
Specific target organ toxicity - repeated exposure, category 2	**H373** - May cause damage to organs through prolonged or repeated exposure
Eye irritation, category 2	**H319** - Causes serious eye irritation.
Skin irritation, category 2	**H315 -** Causes skin irritation.
Skin sensitization, category 1	**H317** - May cause an allergic skin reaction.

DANGER Symbols

Hazard Statements:
H226 - Flammable liquid & vapor
H373 - May cause damage to organs through prolonged or repeated exposure.
H319 - Causes serious eye irritation.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
EUH204 - Contains isocyanates. May produce an allergic reaction

Precautionary statements:
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 - Wear protective gloves/ protective clothing / eye protection / face protection.
P370+P378 - In case of fire: use carbon dioxide, sand, foam or powder to extinguish.
P261 - Avoid breathing dust / fume / gas / mist / vapours / spray.
P333+P313 - If skin irritation or rash occurs: Get medical advice / attention.
P337+P313 - If eye irritation persists: Get medical advice / attention.

Storage
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.

Disposal
P501 - Dispose of contents/container in accordance with local regulations.

Contains: XYLENE
AROMATIC POLYISOCYANIC PREPOLYMER

SECTION 3 – INFORMATION ON INGREDIENTS

CAS / Identification	Component	Conc (%)
37273-56-6	Aromatic Polyisocyanic Prepolymer	19.5 ≤ < 21
1330-20-7	Xylene	10≤ - ≤ 11.5
110-19-0	Isobutyl Acetate	1≤ - ≤ 1.5
69-72-7	Salicylic Acid	.1≤ - ≤ .15
26471-62-5	M-Tolylidene Diisocyanate	0≤ - ≤ .05
1185-81-5	Dibutylbis (Dodecyl Thio) Stannane	0≤ - ≤ .05

SECTION 4 – FIRST AID MEASURES

Description of Necessary Measures:

Inhalation: Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if not breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eyes: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Ingestion: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration.

Indication of any immediate medical attention and special treatment needed:
No additional information is available

Most Important Symptoms and Effects, both acute and delayed:
Specific information on symptoms and effects caused by the product are unknown

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing:
Carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.
Unsuitable Extinguishing Media:
Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

Special Hazards Arising from the Chemical:
Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

Advice for firefighters:
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

Fire Fighting Measures:
Wear full protective firefighting gear including self-contained breathing apparatus for protection against possible exposure.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:
Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.
Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

Methods and Materials for Containment and Cleaning Up:
Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

Environmental Precautions:
The product must not penetrate the sewer system or come into contact with surface water or ground water.

SECTION 7 – HANDLING & STORAGE

Precautions for Safe Handling:
Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. To avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.
Keep out of the reach of children.

Conditions for Safe Storage, Including any Incompatibilities:
Store only in the original container. Store the containers sealed, in a well-ventilated place, away from direct sunlight. Store in a cool and well-ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition.
Keep containers away from any incompatible materials, see section 10 for details.

SECTION 8 – EXPOSURE CONTROL & PERSONAL PROTECTION

Workplace Exposure Standards:
A workplace exposure standard has not been established by Worksafe NZ for this product. There is a general limit of 10mg/m^3 for dusts and mists when limits have not otherwise been established.

NZ Workplace Exposure Standards

Ingredient	CAS	WES-TWA	WES-STEL
Aromatic Polyisocyanic Prepolymer	37273-56-6	No information available	No information available
Xylene	1330-20-7	50ppm, 217 mg/m3	No information available
Isobutyl Acetate	110-19-0	150ppm, 713 mg/m3	No information available
Salicylic Acid	69-72-7	No information available	No information available
M-Tolylidene Diisocyanate	26471-62-5	No information available	No information available
Dibutylbis (Dodecyl Thio) Stannane	1185-81-5	No information available	No information available

*These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health & Safety at Work (General Risk and Workplace Management) Regulations 2016.

Personal Protective Equipment:



As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Provide an emergency shower with face and eye wash station.
Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment to guarantee maximum protection

Hand Protection
Protect hands with work gloves. The following should be considered when choosing work glove material, compatibility, degradation, permeability time. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable.

Skin Protection
Wear long-sleeved overalls and safety footwear Wash body with soap and water after removing protective clothing.

Eye Protection
Wear airtight protective goggles

Respiratory Protection
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration.

Environmental Exposure Controls

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance	Grey liquid	**Physical State**	Liquid
Odour	Characteristic	**Colour**	Grey
Odour Threshold		**pH**	Not applicable
Melting Point	Not available	**Boiling Point**	Not applicable
Freezing Point	Not available	**Evaporation Rate**	
Dynamic Viscosity	9000 mPa*s	**Flammability (solid, gas)**	Flammable liquid
Auto-ignition	Not available	**Flash Point**	33 C
Lower Explosive Limit	Not available	**Decomposition**	Not available
Upper Explosive Limit	Not available	**Vapor Pressure**	
Vapor Density (air=1)	Not available	**Relative Density**	1,6 g/cm3
Water Solubility	reacts with water developing carbon dioxide		

SECTION 10 – STABILITY & REACTIVITY

Reactivity	There are no risks of reaction with other substances in normal conditions of use.
Chemical Stability	Stable under normal conditions of use.
Possibility of Hazardous Reactions	The vapours may also form explosive mixtures with the air.
Conditions to Avoid	Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.
Incompatible Materials	Strong oxidants, nitrates, strong acids, strong bases.
Hazardous decomposition products	In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11 – TOXICOLOGICAL INFORMATION

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Metabolism, toxicokinetics, mechanism of action and other information:
Information not available

Information on likely routes of exposure
XYLENE
WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
XYLENE
Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.
Interactive effects
XYLENE
Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

Acute Toxicity
ATE (Inhalation - vapours) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: Not classified (no significant component)
ATE (Dermal) of the mixture: >2000 mg/kg

AROMATIC POLYISOCYANIC PREPOLYMER
LD50 (Oral): > 2000 mg/kg Ratto
LC50 (Inhalation mists/powders): > 3,82 mg/l/4h

XYLENE
LD50 (Dermal): 4350 mg/kg Rabbit
ATE (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral): 3523 mg/kg Rat
LC50 (Inhalation vapours): 26 mg/l/4h Rat
ATE (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)

SALICYLIC ACID
LD50 (Oral): 891 mg/kg Rat, OECD Guideline 401

M-TOLYLIDENE DIISOCYANATE
LD50 (Dermal): > 9400 mg/kg Rabbit
LD50 (Oral): > 2000 mg/kg Rat
LC50 (Inhalation vapours): 0,15 mg/l/4h Rat

DIBUTYLBIS(DODECYLTHIO)STANNANE
LD50 (Dermal): > 1000 mg/kg
LD50 (Oral): > 2000 mg/kg

Inhalation	Vapor or mist may cause respiratory tract irritation. May cause central nervous system effects. May cause nausea, dizziness, drowsiness and headache
Skin Contact	Causes skin irritation

Eye Contact	Causes serious eye irritation.
Ingestion	May cause gastrointestinal irritation.
Irritation/Corrosivity Data	Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.
Respiratory Sensitization	No information available for the product.

Germ Cell Mutagenicity	Does not meet the classification criteria for this hazard class
Reproductive Toxicity	Does not meet the classification criteria for this hazard class
Carcinogenicity	Does not meet the classification criteria for this hazard class
Specific Target Organ Toxicity - Single Exposure	Does not meet the classification criteria for this hazard class
Specific Target Organ Toxicity - Repeated Exposure	May cause damage to organs
Aspiration hazard	Does not meet the classification criteria for this hazard class

Information on other hazards
Based on the available data, the product contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on humans and cause adverse effects on the exposed individual or his or her progeny:
SALICYLIC ACID

SECTION 12 – ECOLOGICAL INFORMATION

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

Component Analysis - Aquatic Toxicity

Dibutylbis(dodecylthio)Stannane	**1185-81-5**
Algae	EC50 > 1,6 mg/l/72h
Crustacea	EC50 0,11 mg/l/48h
M-Tolyidene Di-isocyanate	26471-62-5
Crustacea	EC50 12,5 mg/l/48h
	Chronic NOEC 6,25 mg/l

Persistence and Degradability:
Aromatic Polyisocyanic Prepolymer
NOT rapidly degradable

XYLENE
Solubility in water 100 - 1000 mg/l
Rapidly degradable

ISOBUTYL ACETATE
Solubility in water 1000 - 10000 mg/l
Rapidly degradable

Bioaccumulative potential

XYLENE	
Partition coefficient: n-octanol/water	3,12
BCF	25,9
ISOBUTYL ACETATE	
Partition coefficient: n-octanol/water	2,3
BCF	15,3

Mobility in soil

XYLENE	
Partition coefficient: soil/water	2,73

Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine
disruptors with environmental effects under evaluation.

Other adverse effects

Information not available

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal Methods:

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14 – TRANSPORT INFORMATION

Land Transport Rule: Hazardous Goods 2005 – NZS 5433:2007

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for transport.

Shipping Name:	Paint Related Material
UN #	UN1263
Hazard Class:	3
Packing Group:	III
HAZCHEM Code	3YE
Precautions:	Flammable Liquid

SECTION 15 – REGULATORY INFORMATION

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002662, Surface Coatings and Colorants (Flammable) Group Standard 2020).

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key Workplace requirement are:

SDS	To be available in 10 minutes any workplace storing any quantity
Inventory	An inventory of all hazardous substances must be prepared and maintained
Packaging	All hazardous substances should be appropriately packaged, including substances that have been decanted, transferred, or manufactured for own use or have been supplied
Labelling	Must comply with the Hazardous Substances (Labelling) Notice 2017
Emergency Plan	Required if > 1000 litres is stored
Certified Handler	Not required
Tracking	Not required
Bunding & Secondary Containment	Required if > 1000 litres is stored
Signage	Required if > 250 litres is stored in one location
Location Compliance Certificate	Required if > 100L (containers > 5L), 250 litres (≤5L containers) 50L (in use) is stored in any one location
Flammable Zone	Must be established if > 100L (closed containers), 25L (decanting), 5L (open occasionally), 1L (in use) is stored in any one location
Fire Extinguisher	If > 250L is present

Section 16 – OTHER INFORMATION

Abbreviations:

CAS Number	Unique Chemical Abstracts Service Registry Number
Controls Matrix	List of default controls linking regulation numbers to Matrix code
EC50	Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test population (eg. Daphnia, fish species)
EPA	Environmental Protection Authority
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially firefighters
HSNO	Hazardous Substances and New Organisms (Act & Regulations)
IARC	International Agency for Research on Cancer
LD50	Lethal Dose 50% - dose which is fatal to 50% of a test population (usually rats)
LC50	Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population (usually rats)
MSDS (SDS)	Material Safety Data Sheet (Safety Data Sheet)
NZIoC	New Zealand Inventory of Chemicals
PES	Prescribes Exposure Standard means a WES or a biological exposure standard that is prescribed in a regulation, a safe work instrument or an approval under HSNO

STEL	Short Term Exposure Limit – The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15-minute period, provided the TWA is not exceeded.
TWA	Time Weighted Average – generally referred to WES averaged over typical workday (usually 8 hours)
WES	Workplace Exposure Standard – The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours per day, 5 days per week) The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the workers breathing zone

Review

Date	Reason for Review	Version
November 2025	Not applicable – New SDS	1

Disclaimer:

This SDS was prepared by Sealco Ltd and is based on our current knowledge, including information obtained by suppliers. This product may be formulated in part with components purchased from other companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties and how the substance is used. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.