

Seeflex 060ES

1. IDENTIFICATION OF THE SUBSTANCE & DATA SHEI SUPPLIER:	Product Name: Material Number: Chemical Family: Chemical Name: Supplier:	Seeflex 060ES 10125 Aromatic thermoplastic polyurethane & polyethylene terephalate Polyurethane elastomer & polyethylene terephalate BFM® Global Ltd P O Box 66-087, Beachhaven, Auckland 0749, New Zealand				
		2.1 Classification of the substance or mixture				
2. HAZARDS IDENTIFICATIO		ne substance or mixture				
	GHS Classification: Non-hazardous substa	ance according to GHS classification				
	2.2 Label elements					
	GHS-Labelling Non-hazardous substa	ance according to GHS classification				
	2.3 Other hazards No information availab	ble.				
3. COMPOSITION/	Type of product: Mixt	ure				
INFORMATION ON INGREDIENTS:	- Polyester scrim - % p	 3.2 Mixtures Thermoplastic polyurethane Polyester scrim - % proprietary. No dangerous ingredients according to REACH-Regulation (EC) No. 1907/2006. 				
		ostances of Very High Concern for Authorisation contain substances of very high concern (Regulation (EC) No article 57).				
4. FIRST AID MEASURES:	4.1 Description of firs	t aid measures				
	water. Do not remove any solvents to the ski	In case of skin contact: CONTACT WITH THE HOT MELT: Cool immediately with plenty of water. Do not remove product crusts which may have formed neither forcibly nor by applying any solvents to the skin involved. To obtain treatment for possible burns, and appropriate skin care, seek medical advice immediately.				
		tion refers to the handling of the product at room temperature. In case ffected areas thoroughly with soap and plenty of water.				
		ymptoms and effects, both acute and delayed o information available.				
		immediate medical attention and special treatment needed s: No information available.				
5. FIRE-FIGHTING MEASURE		5.1 Extinguishing media Suitable extinguishing media: Water, Foam, Dry chemical				
	Burning releases carbo	5.2 Special hazards arising from the substance or mixture Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.				
	-	5.3 Advice for fire-fighters Firemen must wear self-contained breathing apparatus.				
	Do not allow contamir waters.	Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.				

6. ACCIDENTAL RELEASE 6.1 Personal precautions, protective equipment and emergency procedures MEASURES: Put on protective equipment (see section 8). Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away. 6.2 Environment related measures Do not flush into surface water or sanitary sewer system. 6.3 Methods and material for containment and cleaning up Use mechanical handling equipment. Avoid dust formation. Sweep up and shovel into suitable containers for disposal. 6.4 Reference to other sections For further disposal measures see section 13. 7. HANDLING AND STORAGE 7.1 Precautions for safe handling Provided good ventilation and/or local exhaust systems are used, the Workplace Exposure Limit(s) stated in section 8 should not be exceeded. In case of mechanical processing, dust must be removed by effective exhaust ventilation. Keep away from foodstuffs, drinks and tobacco. Wash hands and face before breaks and at the end of work. Keep working clothes separately. Change contaminated clothing. 7.2 Conditions for safe storage, including any incompatibilities Keep in a dry room away from UV light.. Storage class (TRGS 510) : 11: Combustible Solids Storage temperature: < 40 °C 7.3 Specific end use(s) No information available. 8. EXPOSURE CONTROLS/ **8.1 Control parameters PERSONAL PROTECTION:** The regulations for the substances listed below must be observed when processing this product, particularly if processing takes place at elevated temperatures. In our experience the provision of effective fresh-air and exhaust ventilation equipment at the points where vapours

SUBSTANCE	CAS- NO.	BASIS	TYPE	VALUE	CEILING LIMIT VALUE	REMARKS
General limiting value of dust		TRGS 900		10 mg/m ³	2	inhalable fraction
General limiting value of dust		TRGS 900		3 mg/m ³	2	alveolar fraction
General limiting value of dust		TRGS 900	STEL CL			Category II: substances with a resorptive effect.

may be generated will ensure compliance with the tolerance limits quoted below.

8.2 Exposure controls

Respiratory protection

In case of dust formation use respiratory equipment with filter type particle filter P1 according to EN 143.

	Hand protectionSuitable materials for safety gloves; EN 374:Polyvinyl chloride - PVC (>= 0.5 mm)Contaminated and/or damaged gloves must be changed.Eye protectionWear eye/face protection.Skin and body protectionWear suitable protective clothing.Further protective measuresDo not breathe dust/vapour. Grease skin.				
9. PHYSICAL AND CHEMICAL PROPERTIES:	9.1 Information on basic physic Appearance: Colour: Odour: pH:	granular different according to colouration almost odourless not applicable			
	Softening point: Upper/lower flammability or explosive limits: Vapour pressure: Density: Bulk density: Water solubility: Auto-ignition temperature: Ignition temperature: Viscosity, dynamic:	 > 120 °C not applicable not applicable ca. 1,2 g/cm³ 500 - 700 kg/m³ practically insoluble not applicable > 210 °C not applicable 			
	9.2 Other information The indicated values do not necessarily correspond to the product specification. Pleas to the product information sheet or the technical information sheet for specification of				
10. STABILITY AND REACTIVITY:	10.1 ReactivityThis information is not available.10.2 Chemical stability				
	Decomposition begins at 230 °C.				
	10.3 Possibility of hazardous reactions No hazardous reactions observed.				
	10.4 Conditions to avoid This information is not available.				
	10.5 Incompatible materials This information is not available.				
	10.6 Hazardous decomposition products Smouldering or incomplete combustion leads to the formation of toxic gas mixtures consisting mainly of CO, CO2 and nitrogen oxides.				
	Under recommended processing conditions small amounts of isocyanates may be emitted. Exceeding the recommended processing temperatures leads to a significant increase in the amount of isocyanate vapour generated.				
	Over-exposure entails a risk of concentration-dependent inhalatory irritation and/or sensitization by isocyanates (delayed appearance of difficult breathing, coughing, asthma is possible).				

The regulations for the substances listed below must be observed when processing this product, particularly if processing takes place at elevated temperatures.

Isocyanates (all, as -NCO)

11. TOXICOLOGICAL INFORMATION:

Toxicological studies on the product are not yet available.

Please find below the data available to us:

11.1 Information on toxicological effects

Acute toxicity, oral

Thermoplastic polyurethane LD50 rat: > 5.000 mg/kg Method: OECD Test Guideline 423 Studies of a comparable product.

Acute toxicity, dermal

Thermoplastic polyurethane LD50 rat: > 2.000 mg/kg Studies of a comparable product.

Acute toxicity, inhalation

Thermoplastic polyurethane Assessment: The substance or mixture has no acute inhalation toxicity Studies of a comparable product.

Primary skin irritation

Thermoplastic polyurethane Species: rabbit Result: non-irritant Classification: No skin irritation Method: OECD Test Guideline 404 Studies of a comparable product.

Primary mucosae irritation

Thermoplastic polyurethane Species: rabbit Result: non-irritant Classification: No eye irritation Studies of a comparable product.

Sensitisation

Thermoplastic polyurethane Skin sensitisation according to Magnusson/Kligmann (maximizing test): Species: Guinea pig Result: negative Classification: Does not cause skin sensitization. Method: OECD Test Guideline 406 Studies of a comparable product.

Subacute, subchronic and prolonged toxicity

Thermoplastic polyurethane No data available.

Carcinogenicity

Thermoplastic polyurethane No data available.

Reproductive toxicity/Fertility

Thermoplastic polyurethane No data available.

Reproductive toxicity/Teratogenicity

Thermoplastic polyurethane No data available.

Genotoxicity in vitro

Thermoplastic polyurethane Test type: Salmonella/microsome test (Ames test) Result: No indication of mutagenic effects. Method: OECD Test Guideline 471 Studies of a comparable product.

Genotoxicity in vivo

Thermoplastic polyurethane No data available.

STOT evaluation - one-time exposure

Thermoplastic polyurethane Based on available data, the classification criteria are not met.

STOT evaluation - repeated exposure

Thermoplastic polyurethane no data available

Aspiration toxicity Thermoplastic polyurethane No data available.

CMR Assessment

Thermoplastic polyurethane Carcinogenicity: No data available. Mutagenicity: Based on available data, the classification criteria are not met. Teratogenicity: No data available. Reproductive toxicity/Fertility: No data available.

12. ECOLOGICAL INFORMATION:

Ecotoxicological studies of the product are not available.

Do not allow to escape into waterways, wastewater or soil.

Please find below the data available to us:

12.1 Toxicity

Acute Fish toxicity

Thermoplastic polyurethane EC50 > 100 mg/l Species: Danio rerio (zebra fish) Exposure duration: 96 h Method: Tested according to Directive 92/69/EEC. Studies of a comparable product.

Chronic Fish toxicity

Thermoplastic polyurethane No data available.

Acute toxicity for daphnia

Thermoplastic polyurethane EC50 > 100 mg/l Species: Daphnia magna (Water flea) Exposure duration: 48 h Method: Tested according to Directive 92/69/EEC. Studies of a comparable product.

Chronic toxicity to daphnia

Thermoplastic polyurethane No data available.

Acute toxicity for algae

Thermoplastic polyurethane Endpoint: Growth inhibition Species: scenedesmus subspicatus Exposure duration: 72 h Method: OECD Test Guideline 201 No toxic effects with saturated solution. Studies of a comparable product.

Acute bacterial toxicity

Thermoplastic polyurethane EC50 > 10.000 mg/l Test type: Respiration inhibition Species: activated sludge Exposure duration: 3 h Method: OECD Test Guideline 209 Studies of a comparable product.

12.2 Persistence and degradability

Biodegradability

Thermoplastic polyurethane Biodegradation: 1%, 28 d, i.e. not readily degradable Method: Tested according to Directive 92/69/EEC. Studies of a comparable product.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

The product does not add to the AOX-value of effluent water (DIN 38409).

13. DISPOSAL CONSIDERATIONS:

Dispose in accordance with applicable international, national and local laws, ordinances and statutes. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

13.1 Waste treatment methods

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations. The product is suitable for mechanical recycling. After appropriate treatment it can be remelted and reprocessed into new moulded articles. Mechanical recycling is only possible if the material has been selectively retrieved and carefully segregated according to type.

ADR/RID **14. TRANSPORT INFORMATION:** 14.1 UN number : Not dangerous goods 14.2 UN proper shipping name : Not dangerous goods 14.3 Transport hazard class(es) : Not dangerous goods 14.4 Packing group : Not dangerous goods 14.5 Environmental hazards : Not dangerous goods 14.1 UN number : Not dangerous goods 14.2 UN proper shipping name : Not dangerous goods 14.3 Transport hazard class(es) : Not dangerous goods 14.4 Packing group : Not dangerous goods 14.5 Environmental hazards : Not dangerous goods ΙΔΤΔ 14.1 UN number : Not dangerous goods 14.2 UN proper shipping name : Not dangerous goods 14.3 Transport hazard class(es) : Not dangerous goods 14.4 Packing group : Not dangerous goods 14.5 Environmental hazards : Not dangerous goods IMDG 14.1 UN number : Not dangerous goods 14.2 UN proper shipping name : Not dangerous goods 14.3 Transport hazard class(es) : Not dangerous goods 14.4 Packing group : Not dangerous goods 14.5 Environmental hazards : Not dangerous goods 14.6 Special precautions for user See section 6 - 8. Additional information : Not dangerous cargo. Slight smell. Keep dry. 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. **15. REGULATORY INFORMATION:** 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Water contaminating class (Germany) nw not water endangering (in accordance with Annex 1 to the Directive on Water-Hazardous Substances) 15.2 Chemical Safety Assessment A Chemical Safety Assessment has not been conducted for this substance / mixture resp. its components. **16. OTHER INFORMATION: Further information** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.