



INEX™

The Ultimate Reusable Face Mask

2020

MATERIAL SAFETY DATA SHEET

INEX™ MR11 Mask, Breathetex filter and RFT filter.

www.inexmask.co.za

Full system identification

Product name: INEX™ Sola MR2 – Moulded respiratory face mask.

Date of Publication:

Product use: A respiratory face mask for personal and industrial use.

21/07/2020

This product consists of multiple parts, supplied fully assembled. Several components comprise of different materials, as outline bellow, while the different disposable filter options are generally packaged with or provided separately. Do not separate these documents. Refer to the user guide for assembly details. All information below is based upon what is considered the normal use of the product.

INEX™ Sola MR2 parts list.				
MSDS #	#	Item identifier	Note	Page number
20200706INMI01	1	Face seal - half mask	Elastomer thermoplastic	Page 1 to 6
	1a	Straps		
	2a	Filter housing - back	Polypropylene	
	2b	Filter housing - cover		
	2c	Seal		
20200706INMI02a	3a	Option A - Filter pad	Nonwoven material - Sold separately	Page 7 to 10
20200706INMI02b	3b	Option B - Filter pad	Spunwoven Nano-fibre material - Sold separately	Page 11 - 14

1 - Identification

Product name: INEX™ Sola MR2 – Moulded respiratory face mask. (Parts 1 and 2, of 3)

Product use: A respiratory face mask for personal and industrial use.

Manufactures details

Manufactures details: INEX™,
 84 Short street,
 Muldersdrift, Johannesburg,
 South Africa,
 1739

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Product information: +27 10 493 9217

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2 - Hazard identification

Hazard classification: Considered non-hazardous material.

Precautionary statements: This respirator, in combination with its filters, helps protect against the inhalation of specific particulate hazards. Improper use and care may result in sickness or death.

Emergency overview

Immediate health, physical and environmental hazards: When the product is used in line with product directions and guidelines under reasonable conditions, should not pose a health hazard, however improper use of the product may pose a health hazard.

Eye Contact: No foreseeable health effect.
Skin Contact: No foreseeable health effect.
Inhalation No foreseeable health effect.
Ingestion No foreseeable health effect.

3 - Composition and information on ingredients

Chemical composition (Part 1 - Face seal and straps) of 3.

Substance	Approximate weight%	CAS #	Exposure limit mg/m ³	Agency	Note
Thermoplastic Elastomer (TPE)	50 to 100%				Withheld
Additives and colourants	1 to 50%				Withheld

Chemical composition (Part 2 - Filter housing) of 3.

Substance	Approximate weight%	CAS #	Exposure limit mg/m ³	Agency	Note
Polypropylene (PP)	90 to 100%	9010-07-0	10	ACGHI - TVL-TWA	
Additives and colourants	1 to 50%	Non			Withheld

The specific chemical identity and exact percentage (concentration) of this composition are withheld as a trade secret, though they are considered non-hazardous.

4 - First Aid

Inhalation: There is no foreseeable need for first aid.
Skin contact: There is no foreseeable need for first aid.
Eye Contact: There is no foreseeable need for first aid.
Consumption: There is no foreseeable need for first aid.

5 - Fire-fighting measures

Suitable fire extinguishing media: Water (spray, stream or fog), foam, dry chemical or Carbon Dioxide (CO₂).
Protective equipment: Firefighters must use self-contained breathing apparatus.
Hazardous byproducts During a fire, irritating and gases may be generated by thermal decomposition or combustion carbon dioxide, carbon monoxide, ketones, aldehydes, unidentified organic compounds. Dense smoke is emitted when burned without sufficient oxygen.

6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures: N/A.
Environmental precautions: N/A.
Requirements for containment and cleaning up: N/A.

7 - Storage and handling

Precautions for safe handling:

Dependant on use, store per product guidelines. Under normal use and conditions, this product should release no hazardous chemicals and is generally recognised as safe.

Conditions for safe storage including any incompatibilities: No special storage requirements.

8 - Exposure controls and personal protection

Under normal use and conditions, this product should release no hazardous chemicals and is generally recognised as safe, therefore no controls or PPE should be required.

9 - Physical and chemical properties

Part

Specific physical form

Colour/Grade

General physical form

Odor

Flammibility

Auto-ignition temperature

Decomposition temperature

Solubility in water and non-water

Viscosity

Part 1 (Face seal and straps) of 3.

Moulded elastomer half face mask and straps.

Colours vary – Typically Black or Grey, body and straps.

Moulded face skirt/seal and straps.

No odor.

N/A.

N/A.

N/A.

N/A.

N/A.

Part

Specific physical form

Colour/Grade

General physical form

Odor

Flammibility

Auto-ignition temperature

Decomposition temperature

Solubility in water and non-water

Viscosity

Part 2 (Filter housing) of 3

Moulded, Rigid filter housing parts.

Colours vary – Black, Blue, Turquoise, Red, Pink and Yellow, are common.

Moulded, rigid filter housing.

No odor.

N/A.

N/A.

N/A.

N/A.

N/A.

10 - Stability and reactivity

Stability

Stable - Considered non-reactive under normal circumstances

Materials and conditions to avoid

Strong oxidising agents.

Hazardous polymerisation or decomposition

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

11 - Toxicology information

Generally considered non-toxic

Inhalation

There is no foreseeable health effect.

Skin Contact

There is no foreseeable health effect.

Eye Contact

There is no foreseeable health effect.

Consumption

There is no foreseeable health effect.

Additional note

When the product is used in line with product directions and guidelines under reasonable conditions, should not pose a health hazard, however improper use of the product may pose a health hazard.

12 - Ecological impact

This product, its use, release and disposal are expected to have a low environmental impact and risk.

13 - Disposal consideration

Dispose of products and packaging per the local/regional/national/international regulations.

14 - Transportation information

No specific request

15 - Regulatory information

Part

FDA Medical rating

EU Medical rating

ROHS

LATEX

CONEG (Heavy metals)

Toy standards - CPSIA

Toy standards - EU- EN 71

Proposition 65

German consumer goods (German food, feed and consumer goods act)

Part 1 (Face seal and straps) of 3

Substances that are "generally recognised as safe" (GRAS)

Compliant

Compliant

Latex-free

Compliant

Compliant

Compliant

Compliant

Compliant

Part

FDA Medical rating

EU Medical rating

ROHS

LATEX

Part 2 (Filter housing) of 3

The product complies with the FDA CFR

Compliant

Compliant

Latex-free

16 - Other information

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While most data has been compiled from research, case histories, experience and testing, small changes in the environment can produce marked differences in performance. The decision to use the mask and its filters, and in what manner, is made at your own risk. The use of the mask and filters, as well as the care and maintenance thereof, may, therefore, need to be modified to its intended end use and environment. InexTM, its directors, officers or employees shall not be responsible for any direct, indirect or special loss or damage arising from, or as a consequence of, use of, or reliance upon, any information contained in this document or other documents referenced herein. InexTM expressly disclaims any liability which is based on or arises out of, the information or any errors, omissions or misstatements herein. For the latest updated documents, visit www.inexmask.co.za

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1 - Identification

Product name: INEX™ Sola MR11 – Breathetex non-woven filter (part 3a of 3b).

Date of Publication:

Product use: A respiratory face mask, filter pad refill, for personal and industrial use.

21/07/2020

Manufactures details

Manufactures details: INEX™,

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 Muldersdrift, Johannesburg,
 South Africa,
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Product information: +27 10 493 9217

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2 - Hazard identification

Hazard classification: No components in the non-woven fabric are above the allowable threshold.

Precautionary statements: This filter, in combination with the INEX™ Sola MR11 mask, helps protect against the inhalation of specific particulate hazards. Improper use and care may result in sickness or death.

Emergency overview

Immediate health, physical and environmental hazards: When the product is used in line with product directions and guidelines under reasonable conditions, should not pose a health hazard, however improper use of the product may pose a health hazard.

Eye Contact: No foreseeable health effect.

Skin Contact: No foreseeable health effect.

Inhalation: No foreseeable health effect.

Ingestion: No foreseeable health effect.

3 - Composition and information on ingredients

Chemical composition (Part 3a – Nonwoven filter)

Substance	Approximate weight%	CAS #	Exposure limit mg/m ³	Agency	Note
Virgin Polypropylene (PP)	30 to 35 %	9010-07-0	10	ACGHI - TVL-TWA	
Recycled polyester (PET)	65 to 70 %	25038-59-9			Not established
Additives	5 to 10 %				Withheld

The specific chemical identity and exact percentage (concentration) of this composition are withheld as a trade secret, though they are considered non-hazardous.

4 - First Aid

Inhalation: There is no foreseeable need for first aid.

Skin contact: There is no foreseeable need for first aid.

Eye Contact: There is no foreseeable need for first aid.

Consumption: There is no foreseeable need for first aid.

5 - Fire-fighting measures

Suitable fire extinguishing media:	Water (spray, stream or fog), foam, dry chemical or Carbon Dioxide (CO ₂).
Protective equipment:	Firefighters must use self-contained breathing apparatus.
Hazardous byproducts	During a fire, irritating and gases may be generated by thermal decomposition or combustion carbon dioxide, carbon monoxide as well as unidentified organic compounds. Non-burned residues and contaminated water after fire fighting should be disposed of in compliance with official regulations.

6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures:	N/A.
Environmental precautions:	N/A.
Requirements for containment and cleaning up:	N/A.

7 - Storage and handling

Precautions for safe handling:	Dependant on use, store per product guidelines. Under normal use and conditions, this product should release no hazardous chemicals and is generally recognised as safe.
Conditions for safe storage including any incompatibilities:	Store in a bag or container in a cool, dry place, away from oxidising agents. Store away from materials and chemicals that may contaminate the filter medium. Keep containers closed. Keep away from heat, sparks and flames. Do not store near combustible materials.

8 - Exposure controls and personal protection

Under normal use and conditions, this product should release no hazardous chemicals and is generally recognised as safe, therefore no controls or PPE should be required.

9 - Physical and chemical properties

Specific physical form	Mechanically bonded, needle punched - Nonwoven white disk
Colour/Grade	White, Fabric callended on one side
General physical form	Round white disk
Odor	No odor.
Flammibility	N/A.
Melting point	120 to 170 C°
Auto-ignition temperature	N/A.
Decomposition temperature	N/A.
Solubility in water and non-water	N/A.
Density	125 to 154 g/m ²

10 - Stability and reactivity

Stability	Stable - Considered non-reactive under normal circumstances High temperatures, may result in the emission of harmful fumes.
Materials and conditions to avoid	Molten materials should not be allowed to be in contact with the skin to which it can adhere and can cause burns. (This would not be considered a reasonable use)
Hazardous polymerisation	Non

11 - Toxicology information

Inhalation	There is no foreseeable health effect.
Skin Contact	There is no foreseeable health effect.
Eye Contact	There is no foreseeable health effect.
Consumption	There is no foreseeable health effect.
Additional note	When the product is used in line with product directions and guidelines under reasonable conditions, should not pose a health hazard, however improper use of the product may pose a health hazard.

12 - Ecological impact

This product, its use, release and disposal are expected to have a low environmental impact and risk. The product is not biodegradable.

13 - Disposal consideration

Dispose of products and packaging per the local/regional/national/international regulations.

14 - Transportation information

No specific request

15 - Regulatory information

Non

16 - Other information

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1 - Identification

Product name: INEX™ Sola MR11 - RFT spunwoven nanofibre filter (part 3b of 3b)

Date of Publication:

Product use: A respiratory face mask, filter pad refill, for personal and industrial use.

21/07/2020

Manufactures details

Manufactures details: INEX™,

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2 - Hazard identification

Hazard classification: Thermal decomposition will generate Hydrogen Fluoride (HF), which is corrosive.

Precautionary statements: This filter in combination with the INEX™ Sola MR11 mask, helps protect against the inhalation of specific particulate hazards. Improper use and care may result in sickness or death.

Emergency overview

Immediate health, physical and environmental hazards: When the product is used in line with product directions and guidelines under reasonable conditions, should not pose a health hazard, however improper use of the product may pose a health hazard.

Eye Contact: No foreseeable health effect.

Skin Contact: No foreseeable health effect.

Inhalation: No foreseeable health effect.

Ingestion: No foreseeable health effect.

3 - Composition and information on ingredients

Chemical composition (Part 3a - Nonwoven filter)

Substance	Approximate weight%	CAS #	Exposure limit mg/m ³	Agency	Note
Polyvinylidene-fluoride (PVDF)	5 to 10 %	24937-79-9			Not established
Recycled polyester (PET)	90 to 95 %	25038-59-9			Not established
Additives	5 to 10 %				Withheld

The specific chemical identity and exact percentage (concentration) of this composition are withheld as a trade secret, though they are considered non-hazardous.

4 - First Aid

Inhalation: There is no foreseeable need for first aid.

Skin contact: There is no foreseeable need for first aid.

Eye Contact: There is no foreseeable need for first aid.

Consumption: There is no foreseeable need for first aid.

5 - Fire-fighting measures

Suitable fire extinguishing media:	Water (spray, stream or fog), foam, dry chemical or Carbon Dioxide (CO ₂).
Protective equipment:	Firefighters must use self-contained breathing apparatus and skin protection to protect against Hydrogen Fluoride (HF). During a fire, irritating and gases may be generated by thermal decomposition or combustion carbon dioxide, carbon monoxide as well as unidentified organic compounds. Non-burned residues and contaminated water after fire fighting should be disposed of in compliance with official regulations.
Hazardous byproducts	Fluoropolymers will degrade upon prolonged heating or in a fire, liberating Hydrogen Fluoride (HF) and Carbonyl Fluoride (COF ₂). This gas is toxic if inhaled or it comes into contact with moist skin. HF has an ACGIH PIL TLV (8-hr TWA) of 0.5 ppm and a ceiling limit of 2 ppm (1.7 mg/m ³). COF ₂ has an ACGIH TLV of 2 ppm (5.4 mg/m ³) and an OSHA PEL TWA of 2 ppm (5 mg/m ³).
Unusual Fire Hazards:	

6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures:	N/A.
Environmental precautions:	N/A.
Requirements for containment and cleaning up:	N/A.

7 - Storage and handling

Precautions for safe handling:	Dependant on use, store per product guidelines. Under normal use and conditions, this product should release no hazardous chemicals and is generally recognised as safe.
Conditions for safe storage including any incompatibilities:	Store in a bag or container in a cool, dry place, away from oxidising agents. Store away from materials and chemicals that that may contaminate the filter medium. Keep containers closed. Keep away from heat, sparks and flames. Do not store near combustible materials.

8 - Exposure controls and personal protection

Under normal use and conditions, this product should release no hazardous chemicals and is generally recognised as safe, therefore no controls or PPE should be required.

9 - Physical and chemical properties

Specific physical form	Spunwoven nanofibre material layer over a microfibre layer white disk
Colour/Grade	White, Fabric
General physical form	Round white disk
Odor	No odor.
Flammibility	N/A.
Melting point	156 -160°C
Auto-ignition temperature	N/A.
Decomposition temperature	N/A.
Solubility in water and non-water	N/A.
Density	40 g/m ²

10 - Stability and reactivity

Stability	Stable - Considered non-reactive under normal circumstances
Materials and conditions to avoid	High temperatures, may result in the emission of harmful fumes. Molten materials should not be allowed to be in contact with the skin to which it can adhere and can cause burns. (This would not be considered a reasonable use)
Hazardous polymerisation and decomposition	Thermal decomposition of this product will generate Hydrogen-Fluoride (HF), which is corrosive, causing burns on contact with skin and other tissue. HF has an ACGIH TLV ceiling limit of 3 ppm (2.6 mg/m ³) and an OSHA PEL TWA of 3 ppm.
Incompatibility (Materials to Avoid)	Silica (glass fibres, etc.), Boron, and Titanium Dioxide will accelerate the thermal decomposition of polymer at elevated temperatures.

11 - Toxicology information

Inhalation	There is no foreseeable health effect.
Skin Contact	There is no foreseeable health effect.
Eye Contact	There is no foreseeable health effect.
Consumption	There is no foreseeable health effect.
Additional note	When the product is used in line with product directions and guidelines under reasonable conditions, should not pose a health hazard, however improper use of the product may pose a health hazard.

12 - Ecological impact

This product, its use, release and disposal are expected to have a low environmental impact and risk. The product is not biodegradable.

13 - Disposal consideration

Dispose of products and packaging per the local/regional/national/international regulations.

14 - Transportation information

No specific request

15 - Regulatory information

Non

16 - Other information

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