ITW Polymer Technologies

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name:	**MRTV 9 BLACK PART A**
MSDS Manufacturer Number:	IS103R
Manufacturer Name:	ITW Polymer Technologies
Address:	130 Commerce Drive Montgomeryville, PA 18936
General Phone Number:	(215) 855-8450
Emergency Phone Number:	(215) 855-8450
CHEMTREC:	For emergencies in the US, call CHEMTREC: 800-424-9300
MSDS Creation Date:	06/15/2009
MSDS Revision Date:	06/10/2012

HMIS

Health Hazard	2
Fire Hazard	1
REACTIVITY	1
Personal Protection	B

* Chronic Health Effects:

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Silica, crystalline (quartz)	14808-60-7	5 - 10 by weight
Vinyl silicone polymer	68083-19-2	30 - 60 by weight
Polydimethylsiloxane	63148-62-9	10 - 30 by weight
Synthetic amorphous silica	112926-00-8	10 - 30 by weight
Hexamethyldisilazane	999-97-3	1 - 5 by weight
Proprietary Ingredient	Proprietary	1 - 5 by weight

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:	CAUTION! Irritant.
Route of Exposure:	Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:	
Eye:	May cause irritation.
Skin:	May cause irritation.
Inhalation:	Prolonged or excessive inhalation may cause respiratory tract irritation.
Ingestion:	May be harmful if swallowed. May cause vomiting.
Chronic Health Effects:	Prolonged or repeated contact may cause skin irritation.
Signs/Symptoms:	Overexposure may cause headaches and dizziness.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system.
Aggravation of Pre-Existing Conditions:	None generally recognized.

SECTION 4 - FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point:	>200 °F
Auto Ignition Temperature:	Not determined.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.

Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
Extinguishing Media:	Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.
Unsuitable Media:	Water or foam may cause frothing.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
Unusual Fire Hazards:	Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization. Heating above 300 deg F in the presence of air may cause slow oxidative decomposition and above 500 deg F may cause polymerization.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Spill Cleanup Measures:	Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in section 8.
Other Precautions:	Pump or shovel to storage/salvage vessels.

SECTION 7 - HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use.
Special Handling Procedures:	Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.
Hygiene Practices:	Wash thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

EXPOSURE GUIDELINES

Silica, crystalline (quartz) :	
Guideline ACGIH:	0.025 mg/m3 TLV-TWA: 0.025 mg/m3 Respirable fraction (R)
Guideline OSHA:	[10 mg/m3]/[{% SiO2} + 2]
Synthetic amorphous silica :	
Guideline ACGIH:	
Guideline OSHA:	20 mppcf PEL-TWA: 20 mppcf
Notes :	Only established PEL and TLV values for the ingredients are listed.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	Paste.
Color:	Black.
Boiling Point:	Not determined.
Melting Point:	Not determined.
Vapor Density:	Not determined.
Vapor Pressure:	100 mb

Evaporation Rate:	<1
pH:	Not determined.
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	>200 °F
Auto Ignition Temperature:	Not determined.
VOC Content:	<1%

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Hazardous Polymerization:	Not reported.
Conditions to Avoid:	Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Heating resin above 300 F in the presence of air may cause slow oxidative decomposition.
Incompatible Materials:	Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (especially primary and secondary aliphatic amines).

SECTION 11 - TOXICOLOGICAL INFORMATION

Silica, crystalline (quartz) :

Carcinogenicity:	IARC: Group 1: Carcinogenic to humans. NTP: Reasonably anticipated to be a human carcinogen.

Vinyl silicone polymer :

RTECS Number:	VW3300000
Skin:	Administration onto the skin - Rabbit LD50: >16 mL/kg [Skin and Appendages - Dermatitis, other (After systemic exposure)] (RTECS)
Ingestion:	Oral - Rat LD50: >16 mL/kg [Lungs, Thorax, or Respiration - Fibrosis, focal (pneumoconiosis) Lungs, Thorax, or Respiration - Other changes] (RTECS)

Polydimethylsiloxane :

RTECS Number:	JT6485000
Eye:	Eye - Rabbit Standard Draize test.: 100 uL/24H [mild] (RTECS)
Skin:	Administration onto the skin - Rabbit Standard Draize test.: 500 uL/24H [mild] (RTECS)

Hexamethyldisilazane :

RTECS Number:	JM9230000
Skin:	Administration onto the skin - Rabbit LD50: 710 uL/kg [Behavioral - Somnolence (general depressed activity) Lungs, Thorax, or Respiration - Other changes Gastrointestinal - Other changes] Administration onto the skin - Guinea pig LD50: 1 mL/kg [Behavioral - Tremor Behavioral - Muscle weakness Skin and Appendages - Hair] Administration onto the skin - Rabbit Standard Draize test.: 500 uL [severe] (RTECS)
Inhalation:	Inhalation - Rat LC50: 8700 mg/m3/4H [Behavioral - General anesthetic Cardiac - Pulse rate Lungs, Thorax, or Respiration - Respiratory depression] Inhalation - Mouse LC50: 12 gm/m3/2H [Behavioral - General anesthetic Cardiac - Pulse rate Lungs, Thorax, or Respiration - Respiratory depression] (RTECS)
Ingestion:	Oral - Rat LD50: 850 mg/kg [Behavioral - General anesthetic Cardiac - Pulse rate Lungs, Thorax, or Respiration - Respiratory depression] Oral - Mouse LD50: 850 mg/kg [Behavioral - General anesthetic Cardiac - Pulse rate Lungs, Thorax, or Respiration - Respiratory depression] Oral - Rabbit LD50: 1100 mg/kg [Behavioral - General anesthetic Cardiac - Pulse rate Lungs, Thorax, or Respiration - Respiratory depression] (RTECS)

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name:	Non regulated.
DOT UN Number:	Non regulated.

SECTION 15 - REGULATORY INFORMATION

Silica, crystalline (quartz) :

TSCA Inventory Status:	Listed
Massachusetts:	Listed
Pennsylvania:	Listed
Canada DSL:	Listed

Vinyl silicone polymer :

TSCA Inventory Status:	Listed
Canada DSL:	Listed

Polydimethylsiloxane :

TSCA Inventory Status:	Listed
Canada DSL:	Listed

Synthetic amorphous silica :

Massachusetts:	Listed
Canada DSL:	Listed

Hexamethyldisilazane :

TSCA Inventory Status:	Listed
Canada DSL:	Listed

Notes :

All components of this product are on the Canadian Domestic Substances List.

SECTION 16 - ADDITIONAL INFORMATION

HMIS Fire Hazard:	1
HMIS Health Hazard:	2
HMIS Reactivity:	1
HMIS Personal Protection:	B
MSDS Creation Date:	06/15/2009
MSDS Revision Date:	06/10/2012
MSDS Author:	Actio Corporation
Disclaimer:	The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.

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ITW Polymer Technologies

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name:	**MRTV 9 PT B**
MSDS Manufacturer Number:	IS103H
Manufacturer Name:	ITW Polymer Technologies
Address:	130 Commerce Drive Montgomeryville, PA 18936
General Phone Number:	(215) 855-8450
Emergency Phone Number:	(215) 855-8450
CHEMTREC:	For emergencies in the US, call CHEMTREC: 800-424-9300
MSDS Creation Date:	06/15/2009
MSDS Revision Date:	06/10/2012

HMIS

Health Hazard	1
Fire Hazard	1
REACTIVITY	0
Personal Protection	B

* Chronic Health Effects:

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Polydimethylsiloxane	63148-62-9	60 - 100 by weight
Siloxanes and Silicones, di-Me, Me hydrogen, hydrogen-terminated	69013-23-6	10 - 30 by weight

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:	CAUTION! Irritant.
Route of Exposure:	Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:	
Eye:	May cause irritation.
Skin:	May cause irritation.
Inhalation:	Prolonged or excessive inhalation may cause respiratory tract irritation.
Ingestion:	May be harmful if swallowed. May cause vomiting.
Chronic Health Effects:	Prolonged or repeated contact may cause skin irritation.
Signs/Symptoms:	Overexposure may cause headaches and dizziness.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system.
Aggravation of Pre-Existing Conditions:	None generally recognized.

SECTION 4 - FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point:	205 °F
Auto Ignition Temperature:	Not determined.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.
Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
Extinguishing Media:	Use carbon dioxide (CO_2) or dry chemical when fighting fires involving this material.

Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Spill Cleanup Measures:	Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper personal protective equipment as listed in section 8.
Other Precautions:	Pump or shovel to storage/salvage vessels.

SECTION 7 - HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use. Do not store in reactive metal containers. Keep away from acids, oxidizers.
Special Handling Procedures:	Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.
Hygiene Practices:	Wash thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

EXPOSURE GUIDELINES

Notes :	Only established PEL and TLV values for the ingredients are listed.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	Liquid.
Color:	Clear
Boiling Point:	320 °F
Melting Point:	Not determined.
Vapor Density:	>1
Vapor Pressure:	100 mb
Evaporation Rate:	Not determined.
pH:	Not determined.
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	205 °F
Auto Ignition Temperature:	Not determined.
VOC Content:	0

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Hazardous Polymerization:	Not reported.
Conditions to Avoid:	Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions.

Incompatible Materials:	Oxidizing agents. Strong acids and alkalis.

SECTION 11 - TOXICOLOGICAL INFORMATION

Polydimethylsiloxane :

RTECS Number:	JT6485000
Eye:	Eye - Rabbit Standard Draize test.: 100 uL/24H [mild] (RTECS)
Skin:	Administration onto the skin - Rabbit Standard Draize test.: 500 uL/24H [mild] (RTECS)

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name:	Non regulated.
DOT UN Number:	Non regulated.

SECTION 15 - REGULATORY INFORMATION

Polydimethylsiloxane :

TSCA Inventory Status:	Listed
Canada DSL:	Listed

Siloxanes and Silicones, di-Me, Me hydrogen, hydrogen-terminated :

TSCA Inventory Status:	Listed
Canada DSL:	Listed
Notes :	All components of this product are on the Canadian Domestic Substances List.

SECTION 16 - ADDITIONAL INFORMATION

HMIS Fire Hazard:	1
HMIS Health Hazard:	1
HMIS Reactivity:	0
HMIS Personal Protection:	B
MSDS Creation Date:	06/15/2009
MSDS Revision Date:	06/10/2012
MSDS Author:	Actio Corporation
Disclaimer:	The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.

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