

SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: **MR-100 Blowing Agent**
Stock No.: 103412

Other means of identification:

Recommended use of the chemical and restrictions on use:

Chemical manufacturer address and telephone number:

Manufacturer Name: ITW Performance Polymers
Address: 11701 56th Court N
Clearwater, Florida 33760
USA
General Phone Number: 513-489-7600

Emergency phone number:

Emergency Phone Number: (800) 424-9300
CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Pictograms:



Signal Word:

WARNING.

GHS Class:

Eye Irritation. Category 2.
Specific Target Organ Toxicity - STOT, Single Exposure SE. Category 3.
Flammable Liquid. Category 4.

Hazard Statements:

H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H227 - Combustible liquid.

Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P370+P378 - In case of fire: Use dry chemical, carbon dioxide to extinguish small fires. Use water for large fires.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure:

Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Eye:

Can cause moderate irritation, burning sensation, tearing, redness, and swelling.

Skin:

Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns.

Inhalation:

Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects.

Ingestion:

Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain. Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal.

Chronic Health Effects:

Prolonged and repeated occupational overexposure to solvents have been associated with permanent blood, bone marrow, brain and nervous system damage according to published reports. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Signs/Symptoms:

Overexposure can cause headaches, dizziness, nausea, and vomiting.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Proprietary	No Data	20 - 30 by weight	
1-Methyl-2-pyrrolidone	872-50-4	70 - 80 by weight	

SECTION 4 : FIRST AID MEASURES

Description of necessary 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. Remove contacts if present and easy to do. Get 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. Remove and wash contaminated clothing before re-use.
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

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media:	Dry chemical, foam and carbon dioxide.
Unsuitable extinguishing media:	Not determined.

Specific hazards arising from the chemical:

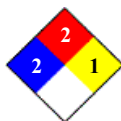
Hazardous Combustion Byproducts:	May form toxic and corrosive gases: carbon dioxide, carbon monoxide, styrene oxide, phthalic anhydride and various hydrocarbons.
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Special protective equipment and precautions for fire-fighters:

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

NFPA Ratings:

NFPA Health:	2
NFPA Flammability:	2
NFPA Reactivity:	1



SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use proper personal protective equipment as listed in Section 8.
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Environmental precautions:

Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
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Methods and materials for containment and cleaning up:

Methods for containment:	Contain spills with an inert absorbent material such as soil or sand. Prevent from spreading by covering, diking or other means. Provide ventilation.
Methods for cleanup:	Clean up spills immediately observing precautions in the protective equipment section. Place into a suitable container for disposal. After removal, flush spill area with soap and water to remove trace residue.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling: Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing.

Hygiene Practices: Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

Conditions for safe storage, including any incompatibilities:

Storage: Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use. Keep out of the reach of children. For maximum product quality, avoid prolonged storage at temperatures above 75°F (25°C).

Specific end use(s):

Work Practices: Close container after each use. Do not eat, drink or smoke when using this product.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Proprietary :

Guideline ACGIH: TLV-TWA: 0.1 mg/m³ Inhalable fraction (I)

Guideline OSHA: Not available.

Appropriate engineering controls:

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.

Individual protection measures:

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.

Other Precautions for Use: If product is to be sanded, the OSHA PEL/TLV of 10 mg/m³ for nuisance dust should be observed.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Viscous liquid
Color:	Yellow
Odor:	Aromatic.
Boiling Point:	395 °F (202°C)
Melting Point:	-13 °F (-25 °C)
Density:	1.16-1.18 g/cc
Solubility:	Not determined.
Vapor Density:	>1 (air = 1)
Vapor Pressure:	< 9 mmHg @20°C
Evaporation Rate:	Slower than ether.
pH:	Not determined.
Coefficient of Water/Oil Distribution:	Not determined.
Flash Point:	195 °F (91 °C)
Lower Flammable/Explosive Limit:	1.3% by volume
Upper Flammable/Explosive Limit:	9.5% by volume
Auto Ignition Temperature:	518 °F
VOC Content:	7.28 lbs/gal as packaged

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: Stable under normal handling conditions.

Possibility of hazardous reactions:

Hazardous Polymerization: Product may undergo hazardous polymerization if exposed to extreme heat.

Conditions To Avoid:

Conditions to Avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions.

Incompatible Materials:

Incompatible Materials: Avoid contact in uncontrolled conditions with: peroxides, strong acids, strong oxidizing agents, halogens and strong bases.

Hazardous Decomposition Products:

Special Decomposition Products: May form toxic and corrosive gases including carbon dioxide, carbon monoxide, styrene oxide, aniline, nitrogen oxides, hydrogen cyanide, and various hydrocarbons.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

1-Methyl-2-pyrrolidone :

Eye: Administration into the eye - Rabbit Standard Draize test: 100 mg [Moderate] (RTECS)

Skin: Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 8 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Ingestion: Oral - Rat LD50 - Lethal dose, 50 percent kill: 3914 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: No environmental information found for this product.

Environmental Fate: No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

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: Refer to Bill of Lading

DOT UN Number: Refer to Bill of Lading

IATA Shipping Name: Refer to Bill of Lading

IATA UN Number: Refer to Bill of Lading

IMDG UN Number : Refer to Bill of Lading

IMDG Shipping Name : Refer to Bill of Lading

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

1-Methyl-2-pyrrolidone :

TSCA Inventory Status: Listed

Section 313: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.

California PROP 65: Listed: developmental.

Canada DSL: Listed

WHMIS Pictograms:



SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 2*
 HMIS Fire Hazard: 2
 HMIS Reactivity: 1
 HMIS Personal Protection: X

Health Hazard	2*
Fire Hazard	2
Reactivity	1
Personal Protection	X

* Chronic Health Effects

SDS Creation Date: January 20, 2014
 SDS Revision Date: September 10, 2015
 SDS Revision Notes: "GHS Update"
 SDS Author: Actio Corporation
 HMIS * *Chronic Health Effects

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