

UCCU^Nomix

INTERNATIONAL, INC.



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Material Safety Data Sheet

for Superabsorbent Polymer in Style# 940 MiraCool Bandana

PHYSICAL DATA

PHYSICAL DATA	LOW	HIGH	UNITS	COMMENT
DENSITY	25	31	LB/FS	BULK
SOLUBILITY IN WATER				SLIGHTLY SOLUBLE
APPEARANCE AND ODOR:				
WHITE GRANULAR POWDER				

FIRE AND EXPLOSION HAZARDS

EXTINGUISHING MEDIA:
 CARBON DIOXIDE, WATER SPRAY, FOAM OR DRY CHEMICAL.

SPECIAL PROCEDURES:
 USE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.

UNUSUAL HAZARDS:
 HANDLE AS A FINELY DIVIDED ORGANIC POWDER. ELIMINATE SOURCES OF IGNITION SUCH AS STATIC DISCHARGE, OPEN FLAMES, ETC. MAINTAIN GOOD HOUSEKEEPING. PROVIDE ADEQUATE VENTILATION. CAUTION: MATERIAL BECOMES VERY SLIPPERY WHEN WET.

HEALTH INFORMATION

PRIMARY ROUTE OF EXPOSURE: INHALATION: YES SKIN ABSORPTION: YES INGESTION: YES

EFFECTS OF OVEREXPOSURE:
 INHALATION: NO SPECIFIC INFORMATION. A RELATED PRODUCT HAS SHOWN THAT EXPOSURES TO LOW LEVELS OF AIRBORNE DUST CAN RESULT IN LUNG IRRITATION AND INFLAMMATION.
 SKIN CONTACT: PROLONGED OR REPEATED EXPOSURE NOT LIKELY TO CAUSE SIGNIFICANT SKIN IRRITATION.
 SKIN ABSORPTION: PRACTICALLY NON-TOXIC. DERMAL LD50(RABBIT)>2000 MG/KG
 SWALLOWING: SLIGHTLY TOXIC. LD50(RAT)>5000 MG/KG
 EYE CONTACT: MAY CAUSE SLIGHT TO MODERATE EYE IRRITATION.

TOXICITY TEST:

SIX WEEK HUMAN REPEAT INSULT PATCH TEST: PRODUCT APPLIED IN BOTH SUSPENSION AND DRY GRANULES TO THE SKIN OF 200 NORMAL VOLUNTEER SUBJECTS AT A DOSAGE OF 0.2 GRAMS. THERE WAS NO EVIDENCE OF SENSITIZATION.
 GUINEA PIG REPEAT INSULT PATCH TEST: PRODUCT APPLIED VIA CLOSED PATCH TO THE SKIN OF 10 GUINEA PIGS AT A DOSAGE OF 0.2 GR OF A 0.5%W/W CONC. TEST MTRL. THERE WAS NO EVIDENCE OF SENSITIZATION.

MEDICAL CONDITIONS AGGRAVATED:
 NO SPECIFIC INFORMATION.

CARCINOGEN: IARC: NO NTP: NO OSHA: NO

INHALATION:
 REMOVE TO FRESH AIR. IF NECESSARY, RESTORE BREATHING. SEEK MED. ATTENTION.

EYE CONTACT:

HOLD EYELIDS OPEN AND FLUSH EYES FOR AT LEAST 15 MINUTES WITH LARGE QUANTITIES OF WATER. SEEK MEDICAL ATTENTION.

SKIN CONTACT:
WASH WITH SOAP AND WATER.
FLUSH WITH WATER FOR AT LEAST 15 MINUTES.

INGESTION:
IF LARGE QUANTITIES ARE SWALLOWED, SEEK MEDICAL ATTENTION.

ADDITIONAL MEASURES:
NONE FOUND

-----REACTIVITY DATA-----

CHEMICAL STABILITY: STABLE HAZARDOUS POLYMERIZATION; WILL NOT OCCUR

CONDITIONS TO AVOID:
AVOID CONTACT WITH STRONG BASIC MATERIALS SUCH AS SODIUM, POTASSIUM HYDROXIDES.

HAZARDOUS DECOMPOSITION PRODUCTS:
THERMAL DECOMPOSITION MAY GENERATE CARBON MONOXIDE AND CARBON DIOXIDE

-----SPILL OR LEAK PROCEDURES/WASTE DISPOSAL-----

SPILL OR LEAK PROCEDURES:
SWEEP OR VACUUM SPILLED MATERIAL. PLACE IN A DISPOSABLE CONTAINER. USE CARE TO AVOID DUST GENERATION. ELIMINATE IGNITION SOURCES. WET MATERIAL WILL BECOME VERY SLIPPERY AND FORM SWOLLEN GRANULES.

WASTE DISPOSAL:
DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. US EPA DOES NOT DEFINE THIS PRODUCT AS HAZARDOUS WASTE UNDER RCRA. DISPOSAL INTO AN APPROVED SANITARY LANDFILL NORMALLY IS ACCEPTABLE.

-----EMPLOYEE PROTECTION-----

RESPIRATORY PROTECTION:
NIOSH/MSHA APPROVED AIR PURIFYING OR AIR-LINE RESPIRATORS SHOULD BE USED WHENEVER DUST LEVELS EXCEED EXPOSURE LIMITS.

PROTECTIVE CLOTHING:
CLOTHING TO COVER EXPOSED AREAS. SKIN CONTACT. CHEMICAL GOGGLES AND IMPERVIOUS GLOVES. IF HANDLING WET MATERIAL, USE AN IMPERVIOUS GLOVE WITH A "NON-SLIP" COATING OR SURFACE. DO NOT WEAR CONTACT LENSES.

ADDITIONAL PROTECTIVE MEASURES:
PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE LEVELS BELOW THE APPLICABLE EXPOSURE LIMITS.
SPECIAL EQUIPMENT: EYEWASH AND SAFETY SHOWER

-----SPECIAL PRECAUTIONS-----

STORE IN A COOL, DRY AREA. PRACTICE REASONABLE CARE AND CLEANLINESS. KEEP CONTAINER CLOSED TO AVOID MOISTURE PICKUP. WASH HANDS THOROUGHLY AFTER HANDLING.
WET MATERIAL BECOMES VERY SLIPPERY.

-----OTHER REGULATORY CONTROLS-----

OTHER REGULATORY CONTROLS:
THIS PRODUCT IS LISTED ON THE TSCA CONFIDENTIAL INVENTORY.
SARA SECTION 302 (EXTREMELY HAZARDOUS SUBSTANCE) LIST; NO
SARA SECTION 311/312 HAZARD CATEGORIES; IMMEDIATE HEALTH
SARA SECTION 313 (TOXIC CHEMICAL) LIST; NO

OSHA HEALTH HAZARDS:
EYE HAZARD

HAZARD COMMUNICATION LABEL: P00.0

SARA HAZARD CLASS:
ACUTE: NO CHRONIC: NO FIRE HAZARD: NO PRESSURE: NO REACTIVITY: NO

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*Additional Explanation for the "Material Safety Data Sheet" Pertaining
to
Superabsorbent Polymer*

The MSDS covering the superabsorbent polymer used in OccuNomix' MiraCool products pertains to the handling, inhalation, ingestion or other contact with the polymer itself. Typically, this would relate to people involved in the manufacturing, packaging or other handling of the polymer in bulk form. In bulk form, the polymer is a slightly coarse - slightly fine powder.

When the polymer is enclosed, as it is in our MiraCool products, it is virtually impossible to inhale the polymer crystals. As the MiraCool products - when wet - do come in contact with the skin, the possibility exists for slight absorption of the wet polymer into the body through the skin. It is also possible for some of the wet polymer to come in contact with the MiraCool product wearer's eyes and it is possible that some of the polymer may be ingested.

The MSDS discusses the potential adverse effects of these kinds of contacts with the body. It should be noted, however, that there is approximately 1/2 to 1 teaspoon of polymer in each MiraCool product. When combined with relatively large amounts of water, which is the case with all wet MiraCool products, the potential negative effects compared to the handling of polymer in bulk form are significantly reduced from the already low level described in the MSDS.

Although we are unaware of any incident of injury resulting from use of our MiraCool product or any of our competitor's products made with superabsorbent polymers, the possibility always exists that some person or persons may have a particular sensitivity to the polymer, to the fabric or to the dyes used in the fabric. Accordingly, a warning is placed on the hangtag of every MiraCool product which indicates if the wearer's skin becomes irritated to wash with soap and water and discontinue use.

The polymer used by OccuNomix is manufactured by one of the largest companies in the world and this type of polymer is safely used in incontinence products, in baby's disposable diapers, in cosmetics and in agriculture. If any further information is required concerning the safety, the use, the misuse or the experience with these types of products - please contact us.

