MATERIAL SAFETY DATA SHEET

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I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: CRL WINDO−PILE
HMIS Ratings:
NFPA Ratings:

Other: WARNING LABELS:
CLASSIFICATION AND LABELING:
Polypropylene is not specifically regulated for any form of international transport nor for EEC user labeling.

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	*C.A.S. Number*	*% By Weight*	*ACGIH TLV TWA/STEL*	*OSHA PEL TWA/STEL*	*Other TWA/STEL*	*LD50*	*LC50*
Other:	CARCINOGENIC SUBSTANCES: None						

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes: Particulates may scratch eye surfaces / cause mechanical irritation.

Skin: Exposure to molten material may cause thermal burns.

Ingestion: Minimal toxicity.

Inhalation: Vapors which may be formed at elevated temperatures may be irritating to eyes and respiratory tract. Low order of toxicity.

Medical Conditions Aggravated by Exposure:

Other: PERSONAL PROTECTION: For open systems at ambient temperature [−.04º to 100.4º F(−18 to 38º C)] where contact is likely, wear safety glasses. When contact may occur with molten material, wear thermal resistant gloves, arm protection, and a face shield.

IV. FIRST AID MEASURES

Eyes: EYE INJURIES:
This product is an inert solid. If in eye, remove as one would any foreign object.
Any material entering the eye should be flushed out with copious volumes of water. Medical attention should be obtained immediately.

Skin: For molten product; immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention. For molten product; No attempt should be made to remove clothing in contact with the affected area, as the damaged flesh can be easily torn.
BURNS:
Any molten materials on the skin should be cooled as quickly as possible e.g. in cold water, but should not be pulled off. Medical attention should be obtained immediately.

Ingestion: First aid normally not required.

Inhalation: In case of exposure to vapors aerosols formed at elevated temperatures, immediately remove the affected victim from exposure. Call for prompt medical attention.
An affected person should be removed as quickly as possible into fresh air, kept warm, and artificial respiration applied if breathing has stopped. Medical attention should be obtained immediately.

Other: MEDICAL ATTENTION: It is important that the medical staff involved should be fully advised of the nature of the material.

V. FIRE FIGHTING MEASURES

Flash Point: Not Applicable

Extinguishing Agents: All available fire extinguishers may be used

Other: FLAMMABILITY CLASSIFICATION
IGNITION AND BURNING CHARACTERISTICS:
When Polypropylene is heated in air, mellting will occur at 329º to 338º F(165º to 170° C) and decomposition will commence at about 300º C with the release of volatile, lower molecular weight hydrocarbons. These can be ignited by flame by radiant heat source. Once ignition occurs, sufficient heat will be generated to continue the decomposition and provided sufficient oxygen in present, burning will continue even when the ignition source is removed. Burning is accompanied by the release of flaming molten droplets of polymer, which could ignite adjacent flammable material. These comments can only be of a general nature, since the conditions in a real fire can never be fully predicted. They will depend on many factors, such as the location, the oxygen availability and presence of other flammable materials.
IGNITION LIMITS: Not Applicable
AUTOIGNITION TEMPERATURE: >572º F (300º C)

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup: COLLECT SPILLED MATERIAL IN APPROPRIATE CONTAINER FOR DISPOSAL.

VII. HANDLING AND STORAGE

Other: STORAGE
BAG STORAGE:
Bags containing polypropylene should be stored dry and shielded from direct sunlight. Indoor unheated storage areas with natural ventilation are adequate. Badly stacked pallets may slip and cause injury to personnal. Regular inspection of stacks is recommended.
Bulk Storage: Whenever practicable polypropylene should be conveyed in closed systems. Dust may be generated in pneumatic conveying systems thus giving rise to a potential dust explosion hazard. Such systems, including silos and intermediate bulk containers should be regularly inspected and any dust accumulatons removed. To minimize the possibility of a spark causing a dust explosion, high velocity filling should be avoided and all bulk storage and conveying systems must be electrically earthed. Tankers should also be electrically eartherd during unloading operations.
USUAL SHIPPING CONTAINERS: Bulk trucks, Bags, Boxes
STORAGE TEMPERATURE: Ambient
TRANSPORT TEMPERATURE: Ambient
LOADING/UNLOADING TEMPERATURE: Ambient
STORAGE/TRANSPORT PRESSURE: Atmospheric

VISCOSITY AT LOADING/UNLOADING TEMPERATURE: Not Applicable
ELECTROSTIC ACCUMULATION HAZARD: Yes, use proper grounding procedure
CORROSIVENESS: None

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear to opaque, white (or colored)
Boiling Point:	Not Applicable
pH:	Not Applicable
Solubility in Water:	None
Specific Gravity:	0.91
Vapor Pressure:	Not Applicable
Physical State:	Solid Pellets or Granules
Other:	MELTING POINT: 160 − 165º C EVAPORATION RATE: None

X. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will Not Occur
Hazardous Decomposition Products:	Oxygen−lean condition may produce carbon monoxide and irritating smoke
Incompatible Products:	Temperatures over 482º F (250º C) may cause resin degradation
Conditions To Avoid:	IN STABILITY: Not Applicable POLYMERIZATION: Not Applicable

XI. TOXICOLOGICAL INFORMATION

Acute Toxicology Data:	TOXICITY CLASS: Polypropylene is chemically unreactive and is generally regarded as being biologically inert.
Other:	SPECIFIC TOXICITY TESTS HAVE NOT BEEN CONDUCTED ON THIS PRODUCT. OUR HAZARD EVALUATION IS BASED ON INFORMATION FROM SIMILAR PRODUCTS, THE INGREDIENTS, TECHNICAL LITERATURE, AND/OR PROFESSIONAL EXPERIENCE. DENSE DUST GENERATED BY THE HANDLING AND/OR PROCESSING OF THIS MATERIAL MAY BE IRRITATING TO THE EYES, SKIN, NOSE AND THROAT. NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN 0.1% IS IDENTIFIED AS A CARCINOGEN BY THE IARC. THIS PRODUCT MAY CONTAIN ONE OR MORE OF THE FOLLOWING COMPONENTS: LEAD AND INORGANIC LEAD COMPOUNDS ARE CLASSIFIED AS GROUP 2B CARCINOGENS BY IARC (POSSIBLY CARCINOGENIC TO HUMANS). EXPOSURE TO LEAD IN EXPERIMENTAL ANIMALS HAS RESULTED IN KIDNEY DAMAGE, AS WELL AS KIDNEY AND LUNG TUMORS. LEAD INTOXICATION CAN LEAD TO IMPAIRMENT OF THE CENTRAL AND PERIPHERAL NERVOUS SYSTEM, AND HEMATOPOIETIC TOXICITY RESULTING IN DAMAGE TO RED CELL FORMATION AND ANEMIA. LEAD MAY ALSO IMPAIR THE REPRODUCTIVE SYSTEM OF MEN AND WOMEN. THIS PRODUCT MAY CONTAIN A HINDERED AMINE LIGHT STABILIZER. MANY HINDERED AMINES ARE EYE IRRITANTS. IN STUDIES USING EXPERIMENTAL ANIMALS, SOME HINDERED AMINES HAVE PRODUCED CHANGES IN KIDNEYS AND LIVER FUNCTION, EFFECTS ON THE IMMUNE SYSTEM, AND CHANGES IN

HEMATOLOGY AND BLOOD CHEMISTRY. TARGET ORGANS INCLUDE THE KIDNEY, LIVER, SPLEEN, ABDOMINAL LYMPH NODES, AND BLOOD.

XII. ECOLOGICAL INFORMATION

Ecotoxicity:

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: Scrap Polypropylene may be disposed of at approved conditions. Advice on the preferred method should be obtained from the competent authority.

XIV. TRANSPORT INFORMATION

Other: Granules: Polypropylene granules do not present an unusual hazard when handling Polypropylene in bulk.

XV. REGULATORY INFORMATION

TSCA Status: LISTED ON INVENTORY

EPA Sara Title III Chemical Listings: SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): THIS PRODUCT IS NOT REGULATED UNDER SECTION 302 OF SARA AND 40 CFR 355.
SECTION 311/312 HAZARDOUS CATEGORIZATION (40 CFR 370)
ACUTE: N
CHRONIC: N
FIRE: N
REACTIVE: N
SUDDEN RELEASE: N
SECTION 313 (40 CFR 372)
THIS PRODUCT IS NOT REGULATED UNDER SECTION 313 OF SARA AND 40 CFR 372.

Supplemental State Compliance Information:

Other: CERCLA SECTIONS 102A/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): THIS PRODUCT IS NOT REPORTABLE UNDER 40 CFR 302.4

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER
THEY ARE APPROPRIATE.