## UAB ORION GLOBAL PET (A subsidiary of INDORAMA POLYMERS PUBLIC COMPANY LIMITED ) MATERIAL SAFETY DATA SHEET

### PRODUCT NAME : RAMAPET A1, RAMAPET N1, RAMAPET N2, RAMAPET R1

SECTION I	NAME			
CHEMICAL FORMULA :	$(C_{10}H_8O_4)_n$			
PRODUCT CODE :	A1, N1, N2, R1			
MANUFACTURER :				
	(A subsidiary of INDORAMA POLYMERS PUBLIC COMPANY LIMITED) Tel: +370 46 300 684, +370 46 300 686			
	101. +370 40 300 004, +370 40 300 000			
SECTION II	TOXICOLOGICAL INFORMATION			
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.				
NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN 0.1% IS IDENTIFIED AS CARCINOGEN BY THE U.S.NATIONAL TOXICOLOGY PROGRAM, THE U.S. OCCUPATIONAL SAFETY AND HEALTH ACT, OR THE INTERNATIONA AGENCY ON RESEARCH ON CANCER (IARC).				
SECTION III	HEALTH INFORMATION			
THE HEALTH EFFECTS BELOW ARE BASED UPON COMPONENT HEALTH EFFECTS CONSISTENT WITH REQUIREMENTS UNDER OSHA HAZARD COMMUNICATION ( 29 CFR 1910.1200 ).				
EYE CONTACT :	PRODUCT FINES CAN CAUSE MECHANICAL IRRITATION.			
SKIN CONTACT :	PRODUCT IS UNLIKELY TO CAUSE IRRITATION.			
INHALATION :	PRODUCT FINES MAY CAUSE MECHANICAL IRRITATION.			
IN GESTATION :	PRODUCT IS PRACTICALLY NON - TOXIC.			
SIGNS AND SYMPTOMS	: IRRITATION AS NOTED ABOVE.			
AGGRAVATED MEDICAL CONDITIONS :	PRE EXISTING EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO PRODUCT FINES.			
SECTION IV	EMERGENCY AND FIRST AID PROCEDURES			
EYE CONTACT :	FLUSH EYES WITH WATER IF IRRITATION OCCURS . IF MOLTEN MATERIAL CONTACTS WITH EYE, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION IMMEDIATELY.			
SKIN CONTACT :	IF CONTACT WITH MOLTEN PRODUCT OCCURS , TREAT AS FOR THERMAL BURN .			
INHALATION :	NOT ORDINARILY REQUIRED			
INGESTION :	NOT ORDINARILY REQUIRED			
NOTE TO PHYSICIAN :	BURNS SHOULD BE TREATED AS THERMAL BURNS. THE MATERIAL WILL COME OFF AS HEALING OCCURS, THEREFORE, IMMEDIATE REMOVAL FROM SKIN IS NOT NECESSARY.			

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SECTION V	PHYSICAL DATA		
BOILING POINT :	NOT APPLICABLE		
SPECIFIC GRAVITY(H <sub>2</sub> O=1):	1.3 - 1.5		
VAPOR PRESSURE :	NOT APPLICABLE		
MELTING POINT ( <sup>0</sup> C ) :	245 - 265		
SOLUBILITY (IN WATER) :	INSOLUBLE		
VAPOR DENSITY (AIR=1			
EVAPORATION RATE :	NOT APPLICABLE		
PHYSICAL FORM :	SOLID		
ODOR :	ODORLESS		
COLOR :	VARIES WITH FORMATION		
SECTION VI	FIRE AND EXPLOSION HAZARD		
FLASH POINT & METHOD	NOT APPLICABLE		
FLAMMABLE LIMITS / % VOLUME IN AIR :	LOWER : NOT APPLICABLE UPPER : NOT APPLICABLE		
EXTINGUISHING MEDIA :	USE WATER FOG , FOAM , DRY CHEMICAL , OR CO2		
SPECIAL FIRE FIGHTING PROCEDURE AND PRECAUTIONS :	MATERIAL WILL NOT BURN UNLESS PREHEATED. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.		
UNUSUAL FIRE AND EXPLOSION HAZARD :	HIGH DUST CONCENTRATIONS HAVE A POTENTIAL FOR COMBUSTION OR EXPLOSION. TREAT AS A SOLID THAT CAN BURN. MOLDED PARTS GENERALLY BURN SLOWLY WITH A LOW SMOKE DENSITY AND FLAMING DRIPS. UNDER CERTAIN CONDITIONS CAN BURN WITH A HIGH SMOKE DENSITY.		
EXPOSURE LIMITS :	PERMISSIBLE EXPOSURE LIMIT (PEL) AND THRESHOLD LIMIT VALUE (TLV)- NOT ESTABLISHED, HOWEVER , VENTILATION ADEQUATE TO MAINTAIN LESS DUST CONCENTRATION (~10 AIR CHANGES / HOUR) SHOULD BE MAINTAINED.		
SECTION VII	REACTIVITY		
STABILITY :	STABLE		
HAZARDOUS POLYMERIZATION :	WILL NOT OCCUR.		
CONDITIONS AND MATERIAL TO AVOID :	STRONG OXIDIZING AGENTS.		
HAZARDOUS DECOMPOSITION PRODUCTS :	AT PROCESSING TEMPERATURE, SOME DEGREE OF THERMAL DEGRADATION WILL OCCUR , ALTHOUGH HIGHLY DEPENDENT ON THE TEMPERATURE AND ENVIRONMENTAL CONDITIONS, A VARIETY OF DECOMPOSITION PRODUCTS MAY BE PRESENT RANGING FROM SIMPLE HYDROCARBONS TO TOXIC / IRRITATION GASES.		

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SECTION VIII	EMPLOYEE PROTECTION			
RESPIRATORY	NOT ORDINARILY REQUIRED.			
PROTECTION : PROTECTIVE CLOTHING ADDITIONAL PROTECTIVE MEASURES :	G NOT ORDINARILY REQUIRED.	ENGINEERING CONTROL'S ARE REQUIRED WHEN PRODUC		
SECTION IX	ENVIRONMENTAL PROTECTION			
SPILL OR LEAK PROCEDURES :	SHOVEL AND SWEEP UP OR USE IN CLOUDS . PUT INTO CONTAINERS FO	IDUSTRIAL VACUUM CLEANER , AVOID GENERATING DUST OR RECLAIMING OR DISPOSAL.		
SECTION X	SPECIAL PRECAUTIONS			
TREAT AS A SOLID THAT CAN BURN . STORE AWAY OXIDIZING MATERIALS, IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. BOND AND GROUND TRANSFER EQUIPMENT. AVOID VAPORS FROM HEATED PRODUCTS. ADEQUATE VENTILATION AND / OR ENGINEERING CONTROLS MUST BE EMPLOYED IN HIGH TEMPERATURE PROCESSING TO PREVENT EXPOSURE TO POTENTIALLY TOXIC/IRRITATING FUMES.				
SECTION XI	TRANSPORTATION INFORMATION			
EUROPEAN ROAD/RAIL ( AIR : ICAO (INTERNATIO	ATION OF DANGEROUS GOODS ADR/RID) NAL CIVIL AVIATION ORGANIZATION) DNAL MARITIME DANGEROUS	NOT REGULATED. NOT REGULATED. NOT REGULATED. NOT REGULATED. NOT REGULATED.		
SECTION XII	HANDLING AND STORAGE			
HANDLING:	AVOID EXTREME CONDITIONS OF HEAT AND HUMIDITY. AVOID BUILD UP OF STATIC ELECTRICITY. PELLET HANDLING EQUIPMENT SHOULD BE GROUNDED TO PREVENT BUILDUP OF ELECTROSTATIC CHARGE. USE WITH ADEQUATE VENTILATION. AVOID DUST ACCUMULATION.			
STORAGE:	KEEP CONTAINER CLOSED. PELLETS ON THE FLOOR MAY BE SLIPPERY AND CAUSE FALLS. STORE IN BOXES IN ACCORDANCE WITH GOOD MATERIALS-HANDLING PRACTICES.			

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SECTION XIII	OTHER REGULATION CONTROLS
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THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE IPA / TSCA INVENTORY OF CHEMICAL SUBSTANCES

PROTECTION OF STRATOSPHERIC OZONE (PURSUANT TO SECTION 611 OF THE CLEAN AIR ACT AMENDMENTS OF 1990); PER 40 CFR PART 82, THIS PRODUCT DOES NOT CONTAIN NOR WAS IT DIRECTLY MANUFACTURED WITH ANY CLASS I OR CLASS II OZONE DEPLETING SUBSTANCES.

CALIFORNIA PROPOSITION 65 (SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986) : MATERIAL(S) KNOWN TO THE STATE TO CAUSE CANCER OR MATERIAL(S) KNOWN TO THE STATE TO CAUSE ADVERSE REPRODUCTIVE EFFECTS : NONE

THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE MSDS REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200.

SECTION XIV OTHER INFORMATION

FOR OTHER INFORMATION, CALL AT Tel: +370 46 300 684, +370 46 300 686

\_ THE INFORMATION CONTAINED HEREIN IS BASED ON CURRENT KNOWLEDGE AND EXPERIENCE; NO RESPONSIBILITY IS ACCEPTED THAT THE INFORMATION IS SUFFICIENT OR CORRECT IN ALL CASES.

\_ USERS SHOULD CONSIDER THESE DATA ONLY AS SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM. THEY MUST MAKE INDEPENDENT DETERMINATIONS OF SUITABILITY AND COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE AND DISPOSAL OF THESE MATERIALS FOR THE SAFETY AND HEALTH OF EMPLOYEES AND CUSTOMERS AND THE PROTECTION OF THE ENVIRONMENT. IT IS THE USERS OBLIGATION TO COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS.

\_ NO STATEMENT MADE IN THIS DATA SHEET SHALL BE CONSTRUCTED AS A PERMISSION OR RECOMMENDATION FOR THE USE ANY PRODUCT IN A MANNER THAT MIGHT INFRINGE EXISTING PATENTS. NO WARRANTY IS MADE EITHER EXPRESS OR IMPLIED.

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