



PT. INDORAMA POLYPET INDONESIA
MATERIAL SAFETY DATA SHEET

SECTION 1	NAME
PRODUCT	: RAMAPET
CHEMICAL NAME	: POLYETHYLENE TEREPHTHALATE (PET)
CHEMICAL FAMILY	: COPOLYMER RESIN
CHEMICAL FORMULA	: $(C_{10}H_8O_4)_n$
CAS NO	: 25038-59-9
PRODUCT CODE	: N1, N2, S1
MANUFACTURER	: PT. INDORAMA POLYPET INDONESIA PHONE NUMBER: +62 254 601715

SECTION 2 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 INTERNATIONAL AGENCY ON RESEARCH ON CANCER (IARC).

ACUTE TOXICLY ORAL : LOW TOXICITY, LD 50> 2000 mg/Kg.
MUTAGENICITY : NOT MUTAGENIC.

SECTION 3 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 4 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.

SECTION 5

PHYSICAL DATA

BOILING POINT: : NOT APPLICABLE

SPECIFIC GRAVITY(H₂O=1) : 1.3 -1.5

VAPOR PRESSURE : NOT APPLICABLE

MELTING POINT (°C) : 245 - 265

SOLUBILITY (IN WATER) : INSOLUBLE

VAPOR DENSITY (AIR=1) : NOT APPLICABLE

EVAPORATION RATE : NOT APPLICABLE

PHYSICAL FORM : SOLID

ODOR : ODORLESS

COLOR : VARIETES WITH FORMATION

SECTION 6

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 7

REACTIVITY

STABILITY : STABLE

HAZARDOUS
POLYMERIZATION : WILL NOT OCCUR.

CONDITIONS AND
MATERIAL TO AVOID : STRONG OXIDIZING AGENTS.

HAZARDOUS
D-COMPOSITION
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.

SECTION 8 EMPLOYEE PROTECTION

RESPIRATORY PROTECTION : NOT ORDINARILY REQUIRED.
PROTECTIVE CLOTHING : NOT ORDINARILY REQUIRED.
ADDITIONAL PROTECTIVE MEASURES : ADEQUATE VENTILATION AND / OR ENGINEERING CONTROL'S ARE REQUIRED WHEN PRODUCT IS HEATED IN PROCESSING.

SECTION 9 ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES : SHOVEL AND SWEEP UP OR USE INDUSTRIAL VACUUM CLEANER, AVOID GENERATING DUST CLOUDS. PUT INTO CONTAINERS FOR RECLAIMING OR DISPOSAL.

SECTION 10 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.

TRANSPORTATION INFORMATION

SECTION 11

DOT (USA) STATUS:	NOT REGULATED.
CANADIAN TRANSPORTATION OF DANGEROUS GOODS	NOT REGULATED.
EUROPEAN ROAD/RAIL (ADR/RID)	NOT REGULATED.
AIR: ICAO (INTERNATIONAL CIVIL AVIATION ORGANIZATION)	NOT REGULATED.
SEA: IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)	NOT REGULATED.
NOT DANGEROUS FOR CONVEYANCE UNDER UN, IMO, ADRIRID AND IATA / ICAO CODES	

SECTION 12 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.

SECTION 13 ECOLOGICAL INFORMATION

BASIS FOR ASSESSMENT : ECOTOXICOLOGICAL DATA HAVE NOT BEEN DETERMINED SPECIFICALLY FOR THIS PRODUCT. THE INFORMATION GIVEN BELOW IS BASED ON A KNOWLEDGE OF THE COMPONENTS AND THE ECOTOXICOLOGY OF SIMILAR PRODUCTS.
MOBILITY : SINK IN WATER
DEGRADABILITY : NOT READILY BIODEGRADABLE.
SEWAGE TREATMENT : EXPECTED TO BE NOT TOXIC AT LIMIT OF WATER SOLUBILITY

SECTION 14 DISPOSAL CONSIDERATION

DISPOSAL CONSIDERATIONS

WASTE DISPOSAL : RECOVER OR RECYCLE IF POSSIBLE. OTHERWISE INCINERATION
PRODUCT DISPOSAL : RECOVER OR RECYCLE IF POSSIBLE. OTHERWISE INCINERATION
CONTAINER DISPOSAL : REMOVE ALL PACKAGING FOR RECOVERY OR WASTE DISPOSAL.
LOCAL LEGISLATION : THE RECOMMENDATIONS GIVEN ARE CONSIDERED APPROPRIATE FOR SAFE DISPOSAL.

HOWEVER LOCAL REGULATIONS MAY BE MORE STRINGENT AND THESE MUST BE COMPLIED WITH.

SECTION 15 OTHER REGULATION CONTROLS

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 16 OTHER INFORMATION

FOR OTHER INFORMATION, CALL INDORAMA OPERATOR AT +62 254 601715

- 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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