

MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor as "Essentially Similar" to Form OSHA-20)

MSDS PL 004B DATE 2/22/82

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| I. PRODUCT IDENTIFICATION | | | | | |
|--|------------|------------------------------------|--|----------|--------------------------------------|
| CHEMICAL NAME Polypropylene AND SYNONYMS propylene ethylene copolymer | | | REGULAR TELEPHONE NO. 302-575-5000 EMERGENCY TELEPHONE NO. 302-995-3000 | | |
| CHEMICAL FAMILY Olefins | | | CAS NO. | | |
| FORMULA (-CH ₂ -CH-CH ₃)n plus (CH ₂)n | | | MOLECULAR WEIGHT Greater than 200,000 | | |
| TRADE NAME AND SYNONYMS PRO-FAX copolymer pellets | | | | | |
| 11. HAZARDOUS INGREDIENTS | | | | | |
| MATERIAL | | | 1 4 22 | % | TLV-TWA VALUES ADDPIED BY ACGIH 1980 |
| As we interpret the U. S. Occupational Safety and Health Act of 1970, this product should not be considered hazardous. | | | | | |
| | | | | | |
| III. PHYSICAL DATA | | | | | |
| BOILING POINT, 760 mm Hg | NA . | Melting Point | | int | Greater than 160°C (320°F) |
| VAPOR PRESSURE @ | NA | SPECIFIC | SPECIFIC GRAVITY (H ₂ O=1) | | 0.88 - 0.92 |
| VAPOR DENSITY (AIR=1) | NA | | PERCENT VOLATILE BY VOLUME (%) | | Less than 0.4 |
| SOLUBILITY IN WATER. % BY WEIGHT @ | Negligible | EVAPORATION RATE (BUTYL ACETATE=1) | | | NA |
| APPEARANCE AND ODOR: Solid pellets, various colors. | | | | | |
| IV. FIRE AND EXPLOSION HAZARD DATA | | | | | |
| FLASH POINT Greater than 329°C (625°F) AUTOIGNITION Greater than 357 (TEST METHOD) (Setchkin) | | | | | r than 357°C (675°F) |
| FLAMMABLE LIMITS IN AIR PERCENT BY VOLUME NA | | | UPPER | | PER NA |
| EXTINGUISHING MEDIA: Water, foam, carbon dioxide, or dry chemical. | | | | | |
| SPECIAL FIRE-FIGHTING PROCEDURES: Standard procedures for Class A Description of the standard procedures fo | | | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS: 변화면 설립 연결 대표를 보면 보면 되었다. | | | | | |
| None NOTES: NA = NOT APPLICABLE | | | ARARITANAS Responsible de la companya de la comp | | |
| This MSDS is for all types, grades and colors of copolymer pellets. | | | | | |

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products, whether used alone or in combination with other products.

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ZAPPA PLASTICS

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E. P. Broks

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PRO-FAX Copolymers Copolymer Pellets

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Rating

0 Minimal 1 Slight 0 Minimal

HIMONT

MATERIAL SAFETY DATA SHEET

HINUNT Incorporated Three Little Falls Centre 2801 Centerville Road P. O. Box 15439 Wilmington, DE 19850-5439

Phone numbers: (302) 996-6000 (normal business hours) (800) 424-9300 (CKENTREC-Emergency-24 hours)

PRODUCT IDENTIFICATION
 As NIMONT interprets the U.S. Decupational Safety and Health Act and Regulations, including the Hazard Communication Standard 29 GFR 1910.1200 dated November 25, 1963, these products should NOT be considered hazardous materials.

PRO-FAX Polymers Propylane - ethylene copolymer pollets

(This HSDS is for all types, grades, and colors of copolymer policis.)

TSCA Registry: CASE: 9010-79-1

Appearance and odor: Solid pellets, various colors; odorless

II. HAZARDOUS INGREDIENTS & EXPOSURE LIMITS

As Himont interprets the U.S. Occupational Safety and Health Act and Regulations, including the Hazard Communication Standard 29 CFR 1910.1200 dated Nevember 25, 1983, those products should not be considered hazardous materials.

III. TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling point:

M/A

Solubility in water: Negligible

<u> 121154</u>

Health hazard: Flammability hazard: Reactivity hazard:

Vapor pressure 2 20°C:

N/A

Specific gravity:

0.88-0.92

Vapor density: % volatila (vol.):

<0.4

Evaporation rate:

p# :

K/A

Freezing/Kelling point: >120°C (248°F)

IV. FIRE EXPLOSION & REACTIVITY HAZARO DAYA

>329°C (625°F) (Setchkin) Flash point:

Autolgnition temperature: >557°C (675°F) (Setchkin)

Extinquishing media:

Water spray, dry chemical, form, or carbon dioxide

Special fire-fighting procedures: Standard procedures for Class A fires. Use self-contained breathing apparatus (SCBA) and protective clothing for structural fire-fighting.

unusual fire & explosion hazards:

Stable

Stability considerations:

Incompatibility with:

Avoid contact with strong exidizing agents.

Hazardous decomposition products: None

-

Mazardous products of combustion: Carbon dioxide, Carbon monoxide, other Unidentifiable organic compounds.

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Hazardous pelymerization:

Will not occur.

*RMIS (Hazardous Materials Identification System) Esting for the product as it is supplied; B/A - not applicable

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V. HEALTH HAZARD DATA

No known health hazards.

EMERGENCY AND FIRST AID PROCEDURES:

Molten Resins: If molten material comes in contact with the skin, immerse under a running stream of water until cooled. <u>PO NOT</u> attempt to remove the reain from the skin. Removal can result in tissue damage. Get immediate medical attention,

VI. SPILL & LEAK PROCEOURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Sweep up spilled material for use or disposal.

CHITICM: Keep walking surfaces free of spilled material to avoid a slipping hazard.

Maste disposal Method: Incineration of waste material in a permitted facility in accordance to local, state, and federal regulations is the recommended disposal method. Landfilling in a Licensed facility in secondance to local, state, and federal regulations is a suffable alternative.

This product is not listed in federal hazardous waste regulations 40 CFR 261.33 paragraphs (e) or (f), i.e. chemical products that are considered hazardous if they become wastes. It does not exhibit any of the hazardous characteristics listed in 40 CFR 261 Subpart C. State or local hazardous waste regulations may apply if different from the federal.

VII. APPLICABLE CONTROL MEASURES

Personal protective equipment:

Safety glasses

Work practices:

Eyewash fountains and safety showers should be easily accessible.

Nondling and storage precautions: Keep away from sparks and open flame.

This product may reset with atrong oxidizing agents and should not be stored near auch materials.

Store in aprinktered warehouse.

Keep temperature below 60°C (140°F) for <u>oyality control</u>.

Engineering controls:

Provide adequate ventilation. Extruder should be properly vented.

Protective measures during repair & maintenance:

Eliminate ignition sources.

PR-004-4

MATERIAL SAFETY DATA SHEET

PMS NUMBER: 512393JPMB

PRODUCT NAME : MASTERBATCH

COLOR : UV LT. BLUE

PHYSICAL FORM :

SUPPLIER : PMS CONSOLIDATED - NEW JERSEY DIV.

PHONE : 708-467-8500 EMERGENCY PHONE : 908-449-0500

STREET : 789 NEW BRUNSWICK ROAD

08873

CITY, STATE, ZIP : SOMERSET, NJ PRINTED DATE : 09/02/94 EFFECTIVE DATE : 11/10/93

**************** SECTION II & EMERGENCY AND FIRST AID PROCEDURES **************

INGREDIENT HAZARDOUS STATEMENT

THE OSHA HAZARDOUS COMMUNICATION STANDARD 29 CFR 1910.1200 REQUIRES THAT DATA ON HAZARDOUS COMPOUNCS BE MADE AVAILABLE HOWEVER REMOTE THE HAZARD. UNLESS THIS PRODUCT IS INGESTED OR IS USED IN A MANNER THAT CREATES VAPORS OR NUISANCE DUSTS, THE HAZARDS ASSOCIATED WITH NORMAL EXPOSURE IS CONSIDERED NEGLIGIBLE.

EYE AND SKIN CONTACT: IMMEDIATELY FLUSH EYES WITH WATER TO REMOVE PARTICLES. IF IRRITATION PERSISTS, CONSULT A PHYSICIAN. WASH SKIN WITH SOAP AND WATER.

INHALATION: "REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN."

"IF BREATHING HAS STOPPED GIVE CARDIOPULMONARY RESUSCITATION." CALL A PHYSICIAN.

IMGESTION: IF SWALLOWED, INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL

PERSONNEL.

IF ANY OTHER HARMFUL EFFECTS ARE SUSPECTED, A PHYSICIAN SHOULD BE CALLED PROMPTLY TO DETERMINE THE NECESSITY FOR TREATMENT OR OTHER TESTING.

PERSONAL PROTECTION EQUIPMENT ************ ************ SECTION III *

GLOVES: OPTIONAL, RUBBER OR NEOPREME GLOVES TO PROTECT MANDS FROM DRYING FFFFCT.

EYE PROTECTION: SHIELDED GOGGLES ARE ADVISED FOR PROTECTION FROM DUST PARTICLES.

RESPIRATOR PROTECTION: IF USE OF THIS PRODUCT GENERATES DUSTS, MISTS, OR VAPORS A MSHA/MIOSH APPROVED RESPIRATOR IS RECOMMENDED.

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PMS NUMBER: 512373JPMB

THE DUSTY CONDITIONS, USE OF A DUST RESPIRATOR CERTIFIED BY NIOSH IS RECOMMENDED. WASH HANDS AND FACE THOROUGHLY AFTER MANDLING AND BEFORE EATING, DRINKING OR USING TOBACCO PRODUCTS.

VENTILATION: LOCAL EXHAUST IS RECOMMENDED TO CONTROL EXPOSURE TO WITHIN OSHA

LIMITATIONS.

FLASH POINT: NA

AUTO IGNITION: NA

LEL: NA

UEL: NA

NFPA HAZARO CLASSIFICATION

FLAMMABLE: 1

HEALTH: 0

REACTIVITY: 0

EXTINGUISHING MEDIA

: CO2 OR DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF CONTAINED BREATHING APPARAIUS.

UNUSUAL FIRE & EXPLOSION HAZARDS: NONE

POLYHERIZATION COMDITIONS TO AVOID

: NONE

STABILITY

STABLE

COMDITIONS TO AVOID

TEMPERATURES ABOVE 700 DEG. C.

INCOMPATIBLE MATERIALS TO AVOID

MONE

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS : NONE

APPEARANCE AND ODOR: ODORLESS

BOILING RANGE : N/A FREEZING POINT : N/A

VAPOR PRES (MM HG) : N/A

SOLUBILITY / WATER : NEGLIGIBLE % VOLATILE : N/A

SPECIFIC GRAVITY : NA

* * * * * SECTION VIII * HANDLING AND DISPOSAL INFORMATION * * * * * CONTINUED ON NEXT PAGE

* MATERIAL SAFETY DOTA SHEET

PMS NUMBER: 512393JPM8

EPA WASTE NO: NA

DOT CLASSIFICATION: NOT CLASSIFIED

HANDLING & SPILL PROCEDURES

IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE, HANDLE WITH CARE AND AVOID PERSONAL CONTACT: AVOID BREATHING DUST, MISTS OR VAPORS: CONTAIN SPILLAGE AND SCOOP OR VACUUM. PLACE IN CLOSED CONTAINER FOR DISPOSAL. WEAR SPECIFIED PROTECTIVE EQUIPMENT IF DUST IS PRESENT OR PRODUCT IS IN LIQUID FORM.

WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

THE FOLLOWING INGREDIENTS ARE LISTED IN OSHA'S Z TABLES. FOR OTHER REGULATORY INFORMATION SEE SECTION XI.

PEL 1 TLV EPA 1 MG/M3 MG/M3 --INGREDIENT--LIST ļ I OSHA ACGIH LIMESTONE NO 1 15.00

INGREDIENTS NOT LISTED IN THIS PRODUCT ARE AT DE MINIMIS LEVELS OR CONSIDERED NON-HAZARDOUS.

******** SECTION X * INGREDIENT HEALTH HAZARD DATA ************

CARCINOGENICITY

MTF: MO IARC: NO

ARC: NO OSHA: NO

CHRONIC HEALTH HAZARDS: REFER TO ROUTES OF ENTRY AND EFFECTS OF OVEREXPOSURE.

ROUTES OF ENTRY

INHALATION: YES SKIM: YES

SKIN: YES INGESTION: YES EYES: YES

EFFECTS OF OVEREXPOSURE

INHALATION : MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT.

SKIN : MAY CAUSE IRRITATION AND ALLERGIC REACTION.

CONTINUED ON NEXT PAGE

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PMS NUMBER: 512393JPMB

INGESTION : MAY CAUSE IRRITATION TO THE GASTROINTESTINAL TRACT.

: MAY CAUSE IRRITATION:

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE

TSCA INVENTORY STATUS: UNLESS SPECIFIED, ALL CHEMICAL COMPONENTS ARE

LISTED IN THE TSCA INVENTORY.
CONTAINS CHEMICALS ON CALIFORNIA'S PROPOSICION 65 LIST: NO

SARA TIPLE III, SHOTION 313 AND 40 CFR 372 NOTIFICATION

CHEMICAL | HIGHEST | ENVIRONMENTAL CAS NO. | % BY.WT. | POLLUTANT ---- CHEMICAL NAME ---- | 147-14-8 | CUPPER COMPOUND

ALL OTHER CHEMICALS CONTAINED IN THIS PRODUCT ARE NOT SUBJECT TO SARA 313 REGULATIONS

STATE AND COMMUNITY RIGHT-TO-KNOW: SEE ABOVE.

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA SUPPLIED TO US BY OUR SUPPLIERS AND IS BELIEVED TO BE CORRECT. NO GUARANTEE OR WARRANTY OF ANY KIND EXPRESSED OR IMPLIED IS MADE WITH RESPECT TO ANY OTHER INFORMATION CONTAINED HEREIN.

FOR FURTHER INFORMATION, PLEASE CONTACT: JOHN HARTMANN