

# MSDS for #7109 & 7128-01 Medication Organizers

BASF Corporation

TRAYS

## Material Safety Data Sheet

Page : 1

Original Date: 08/01/2002  
Revision Date: 08/15/2002

BASF CORPORATION  
3000 CONTINENTAL DRIVE NORTH

MT. OLIVE, NJ 07828  
(973) 426-4873

EMERGENCY TELEPHONE: (800) 424-9300 CHEMTREC  
(800) 922-HELP (BASF Hotline)

BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

### SECTION 1 - PRODUCT INFORMATION

RUBBER MODIFIED POLYSTYRENE 473D KG21

Product ID: NPR 473400

Common Chemical Name:  
POLYSTYROL

Synonyms:

BK473D KG21

Molecular Formula:  
MIXTURE

Chemical Family: Polystyrene resin

Molecular Wt.: NOT APPLICABLE

### SECTION 2 - INGREDIENTS

Chemical Name:	CAS	Amount
ZINC STEARATE	557-05-1	< 0.1 %
OSHA PEL	TWA	15 MG/CU. M
		5 MG/CU. M
WHITE MINERAL OIL, PETROL	8042-47-5	< 7.0 %
ACGIH TLV	STEL	10 MG/CU. M
	TWA	5 MG/CU. M
OSHA PEL	TWA	5 MG/CU. M
RUBBER MODIFIED POLYSTYRENE	9003-55-8	> 92.0 %
PEL/TLV NOT ESTABLISHED		

### SECTION 3 - PHYSICAL PROPERTIES

Color:	Natural
Form/Appearance:	Pallets
Odor:	Odorless
	Typical Low/High U.O.M.
Specific Gravity:	NOT AVAILABLE
Bulk Density:	1.04 - 1.17 LB/GAL
pH:	NOT AVAILABLE
	Typical Low/High Deg. @ Pressure
Boiling Pt:	NOT AVAILABLE
Freezing Pt:	210 F 760 MM HG
Decomp. Temp:	NOT AVAILABLE

Sheet#7109 & 7128-01  
REV.041206

# MSDS for #7109 & 7128-01 Medication Organizers

RUBBER MODIFIED POLYSTYRENE 473D KG21  
NFR 473400

Page : 2

## SECTION 3 - PHYSICAL PROPERTIES (cont)

Solubility in Water Description: Negligible

## SECTION 4 - FIRE AND EXPLOSION DATA

	Typical	Low/High	Deg.	Method
Flash Point:	> 550			F NOT SPECIFIED
Autoignition:	NOT AVAILABLE			

### Extinguishing Media:

Use water fog, foam, dry chemical, halon or CO2 as extinguishing media.

### Fire Fighting Procedures:

Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. For fires in enclosed areas, firefighters must use self-contained breathing apparatus. Do not breathe fumes from fire or dilution from entering streams, sewers, or drinking water supply.

### Unusual Hazards:

This material burns vigorously and releases a dense, black, toxic smoke. Fires are difficult to control. Exposure to fire can generate highly toxic fumes. High dust levels may create a potential for explosion.

## SECTION 5 - HEALTH EFFECTS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

### Acute Overexposure Effects:

Contact with the eyes and skin may result in irritation. These pellets are high molecular weight polymers and not expected to be chemically active under recommended conditions of use. Some traces of styrene monomer and possibly traces of additives may be volatilized under normal storage and processing conditions. With proper ventilation these products can be processed without exposing employees to unacceptable monomer levels. Inhalation of mineral oil mists or vapors may result in irritation of the respiratory tract causing mineral oil pneumonitis. Ingestion of mineral oil results in diarrhea, nausea and vomiting. Inhalation of styrene vapors causes severe irritation to the upper respiratory tract, CNS depression, and loss of balance. Ingestion results in irritation to the mouth, esophagus and stomach. Recent studies of workers exposed to airborne levels of styrene ranging from 3.2 to 549.5 mg/m<sup>3</sup>, showed a significant impairment of color vision.

### Chronic Overexposure Effects:

This product contains residual amounts of styrene monomer. The National Cancer Institute (NCI) concluded styrene demonstrated suggestive, but not convincing evidence of carcinogenicity in male mice in a lifetime feeding study. The International Agency for Research on Cancer (IARC) has included styrene in Group 2B.

Sheet#7109 & 7128-01  
REV.041206

# MSDS for #7109 & 7128-01 Medication Organizers

RUBBER MODIFIED POLYSTYRENE 473D KG21  
NPR 473400

Page 1 3

## SECTION 5 - HEALTH EFFECTS (cont)

Laboratory rats exposed to 800 ppm via inhalation showed evidence of hearing loss. Relevance to humans remains uncertain. Preliminary results from industry sponsored lifetime inhalation studies indicate that styrene caused nasal lesions in mice and rats. There was no indication of an increased incidence of tumors in rats exposed to airborne concentrations ranging from 50 to 1000 ppm. In mice, exposure to styrene at concentrations of 20 to 160 ppm was associated with increased incidences of nasal lesions and benign lung tumors. In female mice, an increase in malignant lung tumors was seen in the highest dose group. The relevance of the mouse tumors to human exposures is unclear and is the subject of further studies being planned. However, numerous epidemiological studies of styrene workers have been conducted which do not indicate carcinogenic effects.

### First Aid Procedures - Skin:

If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and get medical assistance for removal of adhering material and treatment of burns.

### First Aid Procedures - Eyes:

Immediately rinse eyes with running water for 15 minutes. If irritation develops, get medical attention.

### First Aid Procedures - Ingestion:

If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

### First Aid Procedures - Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

### First Aid Procedures - Notes to Physicians:

None known.

### First Aid Procedures - Aggravated Medical Conditions:

No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Please refer to the effects of overexposure section for effects (if any) observed in animals.

### First Aid Procedures - Special Precautions:

None

## SECTION 6 - REACTIVITY DATA

### Stability Data:

Stable

### Incompatibility:

Strong oxidizers, and aromatic and chlorinated hydrocarbons:

### Conditions/Hazards to Avoid:

Excessive temperatures.

### Hazardous Decomposition/Polymerization:

Hazardous Decomposition Products: Carbon monoxide, possibly hydrocarbon fragments, monomers, acrolein, acids, ketones, and aldehydes.

Polymerization: Does not occur.

Sheet#7109 & 7128-01  
REV.041206



# MSDS for #7109 & 7128-01 Medication Organizers

RUBBER MODIFIED POLYSTYRENE 473D KG21  
NPR 473400

Page : 4

## SECTION 6 - REACTIVITY DATA (cont)

### Corrosive Properties:

No data available.

### Oxidizer Properties:

No data available.

## SECTION 7 - PERSONAL PROTECTION

### Clothing:

Gloves, coveralls, apron, and boots as necessary to prevent contact.

### Eyes:

Chemical Goggles

### Respiration:

Use appropriate respiratory protective equipment during heating operations. Approved dust respirators must be used for dusty conditions or if dust levels exceed established standards. No special requirements under normal conditions of use and with adequate ventilation.

### Ventilation:

Use local exhaust to control dusts.

### Explosion Proofing:

None required.

## SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

### General:

Spills should be contained, solidified, and placed in suitable containers for disposal in a licensed facility. This material is not regulated by RCRA or CERCLA ("Superfund"). Wear appropriate respiratory protection and protective clothing and provide adequate ventilation during clean-up.

### Waste Disposal:

Incinerate in a licensed facility. Do not discharge into waterways or sewer systems.

### Container Disposal:

Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

## SECTION 9 - STORAGE AND HANDLING

### General:

Store in a cool area.

## SECTION 10 - REGULATORY INFORMATION

### TSCA Inventory Status

Listed on Inventory: YES

RCRA Haz. Waste No.: NA

CERCLA: NO Reportable Qty.: (If YES)

State Regulatory Information: (By Component)

CAS: 557-05-1

NAME: ZINC STEARATE

CAS: 8042-47-5

NAME: WHITE MINERAL OIL, PETROL

NJ/PA/MA RTK

YES

NO

Sheet#7109 & 7128-01  
REV.041206

# MSDS for #7109 & 7128-01 Medication Organizers

RUBBER MODIFIED POLYSTYRENE 473D KG21  
NPR 473400

Page : 5

## SECTION 10 - REGULATORY INFORMATION (cont)

State Regulatory Information: (By Component) NJ/PA/MA RTK  
NJ/PA/MA RTK  
CAS: 9003-55-8 NO  
NAME: RUBBER MODIFIED POLYSTYRENE

## SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

N/A

DOT Technical Name:

N/A

DOT Primary Hazard Class:

N/A

DOT Secondary Hazard Class:

N/A

DOT Label Required:

N/A

DOT Placard Required:

N/A

DOT Poison Constituent:

N/A

BASF Commodity Codes:

UN/NA Code:

E/R Guide:

Bill of Lading Description:

NOT REGULATED BY THE DEPARTMENT OF TRANSPORTATION  
"IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK". BASF CORPORATION WILL NOT MAKE ITS PRODUCTS AVAILABLE TO CUSTOMERS FOR USE IN THE MANUFACTURE OF MEDICAL DEVICES WHICH ARE INTENDED FOR PERMANENT IMPLANTATION IN THE HUMAN BODY OR IN EQUIPMENT UTILIZED WITH PERMANENT IMPLANTS IN THE HUMAN BODY. THE EXACT USES OF THESE PRODUCTS, AND OUR TRADITION OF DEVELOPING INNOVATIVE APPLICATIONS IN PARTNERSHIP WITH OUR CUSTOMERS. HOWEVER, THE POSSIBILITY OF BEING REQUIRED TO RESPOND TO UNFOUNDED LITIGATION AND/OR CLAIMS ARISING OUT OF OPERATIONS RELATING TO SUCH USE REPRESENTS AN UNACCEPTABLE RISK TO THE COMPANY.

Sheet#7109 & 7128-01  
REV.041206

# MSDS for #7109 & 7128-01 Medication Organizers

NUMBER MODIFIED POLYSTYRENE 473D K921  
NFR 473400

Page : 6

SECTION 11 - TRANSPORTATION INFORMATION (cont)

---

NO. OF DATA SHEETS .

Sheet#7109 & 7128-01  
REV.041206



# MSDS for #7109 & 7128-01 Medication Organizers

INSERTS

Page 1



## MATERIAL SAFETY DATA SHEET

MSDS Number: C4027H

Issue Date: 08/01/91

Product Name: GR, RA, RC, RF, RH, RJ, RL, RN, RP, RQ, RS, RT, RV, RW, RX, RG, TA, TC, TF, TH, TJ, TL, TN, TP, TQ, TS 00 through 99, TT, TV, TW, TX, TG, TR-,TPR-Series  
Polypropylene Ethylene Random Copolymer

Revised Date: 03/12/2002

Sunoco Chemicals, Polymers Division  
550 Technology Drive  
Pittsburgh, PA 15219

Emergency:  
Chemtrec (800) 424-9300  
Sunoco (800) 964-8861

### SECTION 1 - PRODUCT IDENTIFICATION

Product Name: Polypropylene Ethylene Random Copolymer  
Synonyms: N/A  
Chemical Name: 1-propene, polymer with ethene  
Division: Polymers

### SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS NO.	% WT	EXPOSURE LIMITS
Propylene-ethylene Polymer	9010791	100	N (Hazardous) N/A (OSHA PEL TWA) N/A (ACGIH TLV TWA)

### SECTION 3 - HAZARD IDENTIFICATION

**Emergency Overview:** Caution! Generally recognized as a low potential industrial hazard. Inhalation of vapors from thermal processing may cause irritation to the upper respiratory tract.

**Relevant Routes of Exposure:** Inhalation.

**Signs and Symptoms of Acute Overexposure:** Inhalation of fumes, vapors and smoke from thermal processing may cause irritation to the upper respiratory tract. Symptoms may include burning sensation, coughing and sore throat. Molten resin may cause severe thermal burns to the eyes and skin. Symptoms may include redness, pain, blistering, and swelling of the affected areas.

**Signs and Symptoms of Chronic Overexposure:** No known chronic health effects have been observed with normal product use.

**Medical Conditions Generally Aggravated By Exposure:** Individuals with chronic respiratory disorders may be adversely affected by any fume or airborne particulate matter exposure. Persons with preexisting skin disorders may be more susceptible to the effects of this material.

**Potential Health Effects:**

**Eyes:** Transient irritation from contact with pellets. Possible irritation from decomposition and processing fumes. Thermal burns from molten material.

Sheet#7109 & 7128-01  
REV.041206

# MSDS for #7109 & 7128-01 Medication Organizers



## MATERIAL SAFETY DATA SHEET

MSDS Number: C4027H

Issue Date: 08/01/91

Product Name: GR, RA, RC, RF, RH, RJ, RL, RN, RP, RQ, RS, RT, RV, RW, RX, RG, TA, TC, TF, TH, TJ, TL, TN, TP, TQ, TS 00 through 99, TT, TV, TW, TX, YG, TR-,TPR-Series  
Polypropylene Ethylene Random Copolymer

Revised Date: 03/12/2002

**Skin:** Thermal burns from molten material.  
**Ingestion:** Product in marketed form is inert.  
**Inhalation:** Prolonged or repeated exposure from thermal processing may cause irritation to the upper respiratory tract.

### Carcinogenicity:

NTP: N/A  
IARC: N/A  
OSHA: N/A  
ACGIH: N/A  
OTHER: N/A

### SECTION 4 - FIRST AID MEASURES

**Eyes:** Flush immediately with plenty of cool water for at least 15 minutes. Call a physician.  
**Skin:** For thermal burns, immediately flush with plenty of cold water. If possible, submerge affected areas in cold water. Call a physician.  
**Ingestion:** Product in its marketed form is inert. No special first aid procedures necessary.  
**Inhalation:** For overexposure to heated resins, remove from exposure. If breathing is difficult, or has stopped, administer artificial respiration (mouth-to-mouth) or oxygen as indicated. Call a physician.  
**Notes to Physicians:** None.

### SECTION 5 - FIRE FIGHTING PROCEDURES

**Flammable Limits in Air (% by Volume):** N/A  
**Flash Point:** N/A  
**Extinguishing Media:** Use water spray, carbon dioxide or dry chemicals to extinguish fire.  
**Fire Fighting Instructions:** Polypropylene is a slow burning plastic which emits a dense black smoke. Firefighters should wear self-contained breathing apparatus and protective clothing when fighting fires of this type.

Sheet#7109 & 7128-01  
REV.041206



# MSDS for #7109 & 7128-01 Medication Organizers

Page 3



## MATERIAL SAFETY DATA SHEET

MSDS Number: C4027H Issue Date: 08/01/91  
Product Name: GR, RA, RC, RF, RH, RJ, RL, RN, RP, RQ, RS, RT, RV, RW, RX, RG, TA, TC, TF, TH, TJ, TL, TN, TP, TQ, TS 00 through 99, TT, TV, TW, TX, TG, TR-,TPR-Series  
Polypropylene Ethylene Random Copolymer

Unusual Fire and Explosion Hazards: Combustion products may be hazardous.  
Known or Anticipated Hazardous Products of Combustion: Combustion products may include carbon dioxide, carbon monoxide and acrid smoke and fumes.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Accidental Release Measures and Methods for Cleanup: If released or spilled, sweep up and place loose material in labeled container. Loose pellets may present a slipping hazard. Clean up immediately.

### SECTION 7 - HANDLING AND STORAGE

Handling: Avoid excessive breathing of vapors, fumes and smoke which may be released during thermal processing.  
Storage: Store in cool, dry area.

### SECTION 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

Ventilation Requirements: Local exhaust ventilation should be used to control the emission of air contaminants.  
Personal Protective Equipment:  
Eyo/Face: Wear chemical safety goggles/glasses to prevent eye contact. A face shield should be used when appropriate to prevent contact with molten product.  
Skin: When necessary, garments for protection against hot materials should be used to prevent skin contact with molten product.  
Respiratory: Respiratory protection approved by NIOSH/MSHA for protection against organic vapors and dusts/mists should be used to avoid inhalation of excessive air contaminants.  
Other Protective Clothing/Equipment: Emergency eye wash stations should be available in the work area. General dilution ventilation may assist with the reduction of air contamination concentrations.

### SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

Appearance: Solid, opaque whitish pellets (natural resin) or flake.

Sheet#7109 & 7128-01  
REV.041206

# MSDS for #7109 & 7128-01 Medication Organizers

Page 4



## MATERIAL SAFETY DATA SHEET

MSDS Number: C4027H

Issue Date: 08/01/91

Product Name: GR, RA, RC, RF, RH, RJ, RL, RN, RP,  
RQ, RS, RT, RV, RW, RX, RG, TA, TC,  
TF, TH, TJ, TL, TN, TP, TQ, TS 00  
through 99, TT, TV, TW, TX, TG,  
TR-, TPR-Series  
Polypropylene Ethylene Random Copolymer

Revised Date: 03/12/2002

Boiling Point: N/A

Molecular/Chemical Formula:  $(C_3H_4-C_2H_4)_n$

Evaporation Rate: N/A

Bulk Density: N/A

Freezing Point: N/A

Melting Point: 140-150° C (softening)

Octanol/Water Partition  
Coefficient: N/A

Water/Oil Distribution  
Coefficient: N/A

Sheet#7109 & 7128-01  
REV.041206

# MSDS for #7109 & 7128-01 Medication Organizers



## MATERIAL SAFETY DATA SHEET

MSDS Number: C4027H

Issue Date: 08/01/91

Product Name: GR, RA, RC, RF, RH, RJ, RL, RN, RP, RQ, RS, RT, RV, RW, RX, RG, TA, TC, TF, TH, TJ, TL, TN, TP, TQ, TS 00 through 99, TT, TV, TW, TX, TG, TR-,TPR-Series  
Polypropylene Ethylene Random Copolymer

Revised Date: 03/12/2002

Odor:	Odorless	Odor Threshold:	N/A
Percent Volatiles:	N/A	pH Value:	N/A
Physical State:	Solid	Reactivity in Water:	N/A
Solubility in Water:	Negligible	Specific Gravity or Density (Water=1):	0.89- 0.91 (@25° C)
Vapor Density:	N/A	Vapor Pressure:	Negligible

### SECTION 10 - STABILITY / REACTIVITY

Stability:	Stable
Conditions to Avoid:	None known.
Incompatibility With Other Materials:	Potassium permanganate, liquid chlorine, fuming nitric acid and other strong oxidizing agents.
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide, organic oxidation products, acrid smoke and fumes.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	None known.

### SECTION 11 - TOXICOLOGICAL INFORMATION

VALUE	ANIMAL	ROUTES	COMPONENTS
N/A	N/A	N/A	N/A

Toxicological Information: Polypropylene has been tested in laboratory rats by subcutaneous implantation of discs or powder. Local sarcomas were induced at the site of implantation. No epidemiological studies or case reports suggest any serious chronic health hazards from long-term exposure to polypropylene decomposition products below the irritation level (IARC, 19, 218).

### SECTION 12 - ECOLOGICAL INFORMATION

Ecological Information: No ecological data are currently available.



# MSDS for #7109 & 7128-01 Medication Organizers



## MATERIAL SAFETY DATA SHEET:

MSDS Number: C4027H

Issue Date: 08/01/91

Product Name: GR, RA, RC, RF, RH, RJ, RL, RN, RP, RQ, RS, RT, RV, RW, RX, RG, TA, TC, TF, TH, TJ, TL, TN, TP, TQ, TS 00 through 99, TT, TV, TW, TX, TG, TR-,TPR-Series  
Polypropylene Ethylene Random Copolymer

Revised Date: 03/12/2002

### SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Considerations: Dispose of in accordance with local, state and federal requirements.

### SECTION 14 - TRANSPORT INFORMATION

U.S. DOT

Proper Shipping Name:	N/A	Hazard Class:	N/A
ID Number:	N/A	Packing Group:	N/A

### SECTION 15 - REGULATORY INFORMATION

U.S. Federal Regulations: Toxic Substances Control Act (TSCA) Inventory- Yes

State Regulations: N/A

International Regulations: European Inventory (EINECS)- Unknown  
Canadian Inventory (DSL)- Yes

#### SARA Hazards:

Acute:	No	Chronic:	No
Reactive:	No	Fire:	No
Pressure:	No		

### SECTION 16 - OTHER INFORMATION

#### NFPA Codes:

Health:	1	Flammability:	1
Reactivity:	0		

#### HMIS Codes:

Health:	0	Flammability:	1
Reactivity:	0		