



# SAFETY DATA SHEET

## TPO PRIMER A140

Revision Date: 01/09/19

### SECTION I – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : TPO Primer A140  
PRODUCT GRADE/TYPE : **LOW VOC PRIMER**  
SDS NUMBER : J253-S-G-044  
PRODUCT USE : Primer for New TPO  
MANUFACTURER : National Coatings Corporation  
1201 Calle Suerte  
Camarillo, CA 93012  
[www.nationalcoatings.com](http://www.nationalcoatings.com)  
PRODUCT INFORMATION : 1-800-423-9557  
CHEMTREC NORTH AMERICA : 1-800-424-9300  
CHEMTREC INTERNATIONAL : 703-527-3887

### SECTION II – HAZARDS IDENTIFICATION

#### GHS CLASSIFICATION

Flammable Liquids Category 2  
Acute Toxicity Category 4 (Inhalation)  
Skin Irritation Category 2  
Eye Irritation Category 2A  
Specific Target Organ Toxicity Category 3 (Respiratory Irritation)

#### GHS LABEL:

Hazard Category	Signal Word	Pictogram	Hazard Statement	GHS Pictogram Number
Flammable Liquids Category 2	Danger		H225- Highly flammable liquid and vapor	GHS02
Acute Toxicity Category 4 (Inhalation)	Warning		H332- Harmful if inhaled	GHS07
Skin Irritation Category 2	Warning		H315-Causes skin irritation	GHS07
Eye Irritation Category 2A	Warning		H319- Causes serious eye irritation	GHS07
Specific Target Organ Toxicity Category 3 (Respiratory Irritation)	Warning		H335- May cause respiratory irritation	GHS07

**GHS PRECAUTION PHRASES:**

Hazard Category	Prevention	Response	Storage	Disposal
Flammable Liquids Category 2	P210, P233, P240, P241, P242, P243, P280	P303+P361+P353, P370+P378	P403+P233, P235	P501
Acute Toxicity Category 4 (Inhalation)	P261, P271	P304+P340, P312	None	None
Skin Irritation Category 2	P264, P280	P302+P352, P321, P332+P313, P362+P364	None	None
Eye Irritation Category 2A	P264, P280	P305+P351+P338, P337 + P313	None	None
Specific Target Organ Toxicity Category 3 (Respiratory Irritation)	P261, P271	P304+P340, P312	P405	P501

**P Statements**

*P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*

*P235: Keep cool.*

*P233: Keep container tightly closed.*

*P240: Ground and bond container and receiving equipment.*

*P241: Use explosion proof equipment.*

*P242: Use non-sparking tools.*

*P243: Take action to prevent static discharges.*

*P261: Avoid breathing dust/fume/gas/mist/vapours/spray.*

*P264: Wash hands thoroughly after handling.*

*P271: Use only outdoors or in a well-ventilated area.*

*P280: Wear protective gloves/protective clothing/eye protection/face protection.*

*P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].*

*P370+P378: In case of fire: Use media defined in Section 5 to extinguish.*

*P321: Specific treatment (See Section 4 of this SDS).*

*P332+P313: If skin irritation occurs: Get medical advice/attention.*

*P362+P364: Take off contaminated clothing and wash it before reuse.*

*P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

*P337+P313: If eye irritation persists: Get medical advice/attention.*

*P304+P340: IF INHALED: Remove person to fresh air and keep*

*P403+P233: Store in a well-ventilated place. Keep container tightly closed.*

*P405: Store locked up.*

*P501: Dispose of contents/container in accordance with local/regional/national/international regulations.*

**SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS No.	Weight %
Tert-Butyl Acetate	540-88-5	60-70
Tetraethyl Orthosilicate	78-10-4	15-18
Xylene	1330-20-7	7-10
Titanium Acetylacetonate	17927-72-9	5-7
Isopropanol	67-63-0	1-2

## SECTION IV – FIRST-AID MEASURES

- Eye Contact:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation develops.
- Skin Contact:** Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.
- Inhalation:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.
- Ingestion:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.
- Medical Conditions Aggravated by Exposure:** Pre-existing skin, or eye problems may be aggravated by exposure to this product.
- Recommendation to Physicians:** Treat symptoms and reduce over-exposure.

## SECTION V – FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media :** Use dry chemical, foam or carbon dioxide to extinguish fire. Do not use a direct stream of water.

**Specific hazards arising from the chemical:** Dangerous when exposed to heat or flame. Will form flammable or explosive mixtures with air at room temperature. Irritating or toxic substances may be emitted upon thermal decomposition. Thermal decomposition products may include oxides of carbon and nitrogen. Vapor or gas may spread to distant ignition sources and flash back. Vapors or gas may accumulate in low areas. Runoff to sewer may cause fire or explosion hazard. Containers may explode in heat of fire. Containers may explode in heat of fire. Vapors may concentrate in confined areas. Liquid will float and may reignite on the surface of water.

**Special protective action for fire-fighters:**

No action shall be taken involving any personal risk or without suitable training.  
 Move containers from the fire area if you can do it without personal risk.  
 Exposed fire-fighters must wear NIOSH approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.  
 Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

## SECTION VI – ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Ventilate enclosed areas.  
 Use personal protective equipment.  
 Keep people away from and upwind of spill/leak.  
 Material can create slippery conditions. Do not touch or walk through spilled material.

**Emergency Procedures:** Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate areas).  
 As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, isolate for 800 meters (1/2 mile) in all directions, also consider initial evacuation for 800 meters (1/2 mile) in all directions. **LARGE SPILL:** Consider initial downwind evacuation for at least 300 meters (1000 feet). Keep out of low areas. Stay upwind. Keep unauthorized personnel away.  
 Ventilate closed spaces before entering.

**Personal Precautions:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**Methods of Cleaning up:** Stop leak if you can do it without risk.  
 Contain spills immediately with inert materials (e.g. sand, warth). Use non-sparking tools to collect absorbed material.  
 Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.  
 All equipment uses when handling the product must be grounded.

**SECTION VII – HANDLING AND STORAGE**

**Precautions for safe handling:**  
 Keep away from fire. Keep away from heat and sparks. Do not eat, drink or smoke when using this product. After handling wash hands thoroughly. Prevent formation of aerosols. All equipment used in handling the product must be grounded. Bound and ground all transfer containers and equipment. Take precautionary measures against static charges. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, grind, drill, weld or perform similar operations near container.

**Conditions for safe storage :** **Storage :** Keep containers properly sealed in a cool, dry, well-ventilated area between 65-85 F (18.3-29.4 F). Do not store in open, unlabeled or mislabeled containers. Do not reuse empty container without commercial cleaning or reconditioning.

**Storage Period:** 12 months

**Keep container closed when not in use. Protect from freezing.**

**SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE LIMITS/GUIDELINES:**

Chemical Name	CAS #	ACGIH TWA	OSHA TWA	WEEL
Tert-Butyl Acetate	540-88-5	200 ppm	200 ppm 950 mg/m <sup>3</sup>	Not Listed
Tetraethyl Orthosilicate	78-10-4	10 ppm	100 ppm 850 mg/m <sup>3</sup>	Not Listed
Titanium Acetylacetonate	17927-72-9	Not Listed	Not Listed	Not Listed
Isopropanol	67-63-0	200 ppm	400 ppm 980 mg/m <sup>3</sup>	Not Listed
Xylene	1330-20-7	100 ppm	100 ppm 435 mg/m <sup>3</sup>	Not Listed

- Engineering Controls:** : Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.
- Protective Measures** : Employees should wash their hands and face before eating, drinking or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.
- Eye/face Protection** : Safety glasses with side-shields.
- Skin Protection** : Impervious (Neoprene gloves). Wear clothing and footwear that cannot be penetrated by chemicals.
- Respiratory Protection** : Use only with ventilation to keep levels below exposure guidelines reported in this document. If not sure, and/or not able to monitor, use State or federally approved supplied air-respirator. Wear respirator (MSHA/NIOSH approved or equivalent) where exposure limits are exceeded.

## SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light, Transparent Charcoal
Odour:	Slight odor
Odour threshold:	Not available
pH:	Not determined
Melting point/freezing point:	Not determined
Boiling Point/boiling range:	Not available
Flash Point:	~4.4 °C (40°F)
Evaporation Rate:	Not determined
Flammability:	Flammable liquid
Upper/Lower Flammability or explosive limits:	Not available
Vapor Pressure:	Not available
Vapor density:	Not available
Specific Gravity:	0.88 @ 25°C
Solubility: in water	Not available
Partition Coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not determined
VOC Content g/l:	<250

Note: The above data are typical values and must not be construed as a specification.

## SECTION X – STABILITY AND REACTIVITY

<b>Reactivity:</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical Stability:</b>	Stable under normal temperatures and pressure.
<b>Possibility of hazardous reactions:</b>	None known.
<b>Conditions/Materials to avoid:</b>	Avoid flames, sparks or other sources of ignition.
<b>Incompatible Materials:</b>	oxidizing agents.
<b>Hazardous decomposition:</b>	By Thermal decomposition: carbon monoxide, carbon dioxide, Oxides of nitrogen (NOx), other potentially toxic fumes, dense black smoke.

## SECTION XI – TOXICOLOGICAL INFORMATION

Chemical Name	CAS #	Acute Oral	Acute Dermal	Acute Inhalation
Tert-Butyl Acetate	540-88-5	LD50: 4100 mg/kg (Rat)	LD50: 200 mg/kg (Rabbit)	Not Established
Tetraethyl Orthosilicate	78-10-4	LD50: 2500 mg/kg (Rat)	LD50: 5878 mg/kg (Rabbit)	Not Established

Acute toxicity	Acute Toxicity Category 4 (Inhalation)
Skin corrosion/irritation	Skin Irritation Category 2
Serious eye damage/irritation	Eye Irritation Category 2A
Respiratory or skin sensitization	Based on available data, the classification is not met
Germ cell mutagenicity	Based on available data, the classification is not met
Carcinogenicity	Based on available data, the classification is not met
Reproductive toxicity	Based on available data, the classification is not met
STOT – single exposure	Specific Target Organ Toxicity – Single Exposure (Respiratory Irritation)
STOT – repeated exposure	Based on available data, the classification is not met
Aspiration Hazard	Based on available data, the classification is not met

**Suspected Cancer Agent:** None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore are not considered to be a cancer-causing agent by these agencies.

**Irritancy of Product:** Contact with this product can be irritating to exposed skin, eyes, and respiratory system.

**Sensitization of Product:** This product is considered a skin sensitizer.

**Reproductive Toxicity Information:** No specific data available for this product.

**Specific Target Organ Toxicity – Single Exposure:** May cause respiratory irritation.

**Specific Target Organ Toxicity – Repeated Exposure:** None known.

**Aspiration Hazard:** None

## SECTION XII – ECOLOGICAL INFORMATION

**ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.**

**Toxicity:** No specific data is currently available on this product's effects on aquatic life, however release of this product may have long term effects on the aquatic environment.

**Persistence and Degradability:** No specific data available on this product.

**Bioaccumulative Potential:** No specific data available on this product.

**Mobility in soil:** No specific data available on this product.

**Other Adverse Effects:** No specific data available on this product.

## SECTION XIII – DISPOSAL INFORMATION

**Environmental Precautions:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**Waste Disposal Method:** Waste disposal should be in accordance with existing federal, state and local environmental laws.

**Empty Container Precautions:** Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

## SECTION XIV – TRANSPORT INFORMATION

### US DOT; IATA; IMO; ADR:

This product is classified as **Dangerous Good** as defined by **49 CFR 172.101** by the U.S. Department of Transportation.

<b>Proper shipping Name</b>	:	Flammable Liquid, n.o.s. (Contains Tert-Butyl Acetate, Xylene)
<b>UN Number</b>	:	UN1993
<b>Transport Hazard Class</b>	:	Class 3 Flammable
<b>Packing Group</b>	:	PGIII
<b>Marine Pollutant</b>	:	This product's ingredients that are not classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)
<b>Land Transport (DOT)</b>	:	Flammable class 3
<b>Sea Transport (IMDG)</b>	:	This product is classified as Dangerous Goods by the International Maritime Organization.
<b>Air Transport (ICAO/IATA)</b>	:	Flammable Liquid, n.o.s; Class 3 Flammable, UN1993; PGIII: DOT Label-Flammable class3
<b>Special Precautions</b>	:	No data available

## SECTION XV – REGULATORY INFORMATION

### U.S. Federal Regulations:

**SARA Reporting Requirements:** This product is subject to the reporting requirements of Sections 302, 304 and 313 Title III of the Superfund Amendments and Reauthorization Act., as follows:

**SARA 313:** Xylene CAS# 1330-20-7  
Isopropanol CAS# 67-63-0

**TSCA:** All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory chemicals

### SARA 311/312:

Acute Health: Yes      Chronic Health: No      Fire: Yes      Reactivity: No

**U.S. SARA Threshold Planning Quantity:** There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs (4,500 kg) may apply, per 40 CFR 370.20

**U.S. CERCLA Reportable Quantity:** None

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):** This product does not contain chemicals on the Prop 65 list.

**International Chemical Inventories:**

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac:	Listed
Australian Inventory of Chemical Substances:	Listed
Korean Existing Chemical List (ECL):	Listed
Japanese Existing National Inventory of Chemical Substances (ENCS):	Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCA):	Listed
Swiss Giftliste List of Toxic Substances:	Listed
U.S. TSCA:	Listed

**SECTION XVI – OTHER INFORMATION**

**HMIS III Rating:**

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

**HMIS Legends:**

0	Not significant	3	High
1	Slight	4	Extreme
2	Moderate	*	Chronic

Legend:

Acronym	Meaning
ACGIH	American Conference of Governmental Hygienists
OSHA	Occupational Safety Health Administration
SARA	Superfund Amendment Reauthorization Act
TRI	Toxic Release Inventory
GHS	Globally Harmonized System (of Classification and Labeling of Chemicals)
DOT	Department of Transportation
IMDG	International Maritime Dangerous Goods
ICAO	International Civil Aviation Organization
IATA	International Air Transport Association

*The information in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. The information relates only to the specific material designated and may not be valid for such material used in combination with or any other material in any process, unless specified in the test.*

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 Supersedes Last Revision: n/a

This SDS adheres to the standards and regulatory requirements of the United States and has been written under the guidance of the Globally harmonized System of Classification and Labeling of Chemicals.

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