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## SAFETY DATA SHEET

### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT

**Product Name:** MCP245B  
**Product Description:** Metal Catalyst  
**Product Code:** 8170086-00  
**Intended Use:** Catalyst

#### COMPANY IDENTIFICATION

**Supplier:** ExxonMobil Catalysts and Licensing LLC  
22777 Springwoods Village Parkway  
Spring, TX 77389 USA  
**24 Hour Health Emergency** 609-737-4411  
**Transportation Emergency Phone** (800) 424-9300 or (703) 527-3887 CHEMTREC  
**Product Technical Information** 832-624-8500

### SECTION 2 HAZARDS IDENTIFICATION

This material is hazardous according to regulatory guidelines (see (M)SDS Section 15).

#### CLASSIFICATION:

Skin Sensitizer: Category 1. Carcinogen: Category 1A. Specific target organ toxicant (repeated exposure): Category 1.

#### LABEL:

##### Pictogram:



**Signal Word:** Danger

#### Hazard Statements:

H317: May cause allergic skin reaction. H350: May cause cancer. H372: Causes damage to organs through prolonged or repeated exposure. Respiratory Tract

#### Precautionary Statements:

P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P260: Do not breathe dust. P264: Wash skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves and clothing. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P308 + P313: IF exposed or concerned: Get medical advice/attention. P314: Get medical advice/attention if you feel unwell. P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. P362 + P364: Take off

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contaminated clothing and wash it before reuse.P405: Store locked up.P501: Dispose of contents and container in accordance with local regulations.

**Contains:** NICKEL OXIDE

**Other hazard information:**

**HAZARD NOT OTHERWISE CLASSIFIED (HNOC):** None as defined under 29 CFR 1910.1200.

**PHYSICAL / CHEMICAL HAZARDS**

Material can accumulate static charges which may cause an ignition.

**HEALTH HAZARDS**

Contains nickel, which can cause lung or nasal cancer. Long-term breathing of this material may cause chronic lung disease. In a fire, nickel may form nickel carbonyl, a highly toxic substance and known carcinogen. Danger of adverse health effects by prolonged exposure. Repeated exposure may cause skin dryness or cracking. Dust may be irritating to eyes and respiratory tract.

**ENVIRONMENTAL HAZARDS**

No significant hazards.

<b>NFPA Hazard ID:</b>	Health: 2	Flammability: 0	Reactivity: 1
<b>HMIS Hazard ID:</b>	Health: 2*	Flammability: 0	Reactivity: 1

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

This data sheet is for the unused catalyst. Appropriate precautions for the used material should be followed.

<b>SECTION 3</b>	<b>COMPOSITION / INFORMATION ON INGREDIENTS</b>
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This material is defined as a mixture.

**Hazardous Substance(s) or Complex Substance(s) required for disclosure**

Name	CAS#	Concentration*	GHS Hazard Codes
ALUMINUM OXIDE	1344-28-1	35%	None
NICKEL OXIDE	1313-99-1	1.99%	H317, H350(1A), H372, H413

\* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

<b>SECTION 4</b>	<b>FIRST AID MEASURES</b>
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#### INHALATION

Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device.

#### SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

#### EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

#### INGESTION

Seek immediate medical attention.

<b>SECTION 5</b>	<b>FIRE FIGHTING MEASURES</b>
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#### EXTINGUISHING MEDIA

**Appropriate Extinguishing Media:** Use foam, dry chemical, or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Inappropriate Extinguishing Media:** DO NOT USE WATER.

#### FIRE FIGHTING

**Fire Fighting Instructions:** If contact with water occurs, large quantities of heat and steam may be generated. Avoid contact with water (creates heat). Avoid contact with eyes. Avoid contact with skin. Avoid conditions which create dust. Avoid inhalation of dusts. Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA).

**Unusual Fire Hazards:** Adsorption of water will generate heat and possibly steam; closed containers may get very hot and build up pressure. Nickel powder or dust will support combustion and may form explosive mixtures in air. In a fire, nickel may form nickel carbonyl, a highly toxic substance and known carcinogen.

**Hazardous Combustion Products:** Metal Oxides, Nickel Carbonyl

#### FLAMMABILITY PROPERTIES

**Flash Point [Method]:** N/A

**Flammable Limits (Approximate volume % in air):** LEL: N/A UEL: N/A

**Autoignition Temperature:** N/A

<b>SECTION 6</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
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#### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

#### PROTECTIVE MEASURES

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Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

## SPILL MANAGEMENT

**Land Spill:** Stop leak if you can do it without risk. Vacuum material into a recovery container. Ventilate the area. Prevent dust cloud.

**Water Spill:** Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Skim from surface.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

## ENVIRONMENTAL PRECAUTIONS

Prevent entry into waterways, sewers, basements or confined areas. For Large Spills: Cover spill with plastic sheet or tarpaulin to minimize spreading.

## SECTION 7

### HANDLING AND STORAGE

## HANDLING

Avoid all personal contact. Product may generate heat if it comes in contact with water or water vapor. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source).

**Static Accumulator:** This material is a static accumulator.

## STORAGE

The type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers. Keep container tightly closed and dry.

## SECTION 8

### EXPOSURE CONTROLS / PERSONAL PROTECTION

## EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

Substance Name	Form	Limit / Standard			NOTE	Source
ALUMINUM OXIDE	Respirable fraction.	TWA	5 mg/m3		N/A	OSHA Z1
ALUMINUM OXIDE	Total dust.	TWA	15 mg/m3		N/A	OSHA Z1
ALUMINUM OXIDE	Respirable fraction.	TWA	1 mg/m3		N/A	ACGIH
NICKEL OXIDE [as Ni]	Inhalable fraction.	TWA	0.2 mg/m3		N/A	ACGIH

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NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

## ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions.

Control measures to consider:

Adequate ventilation should be provided so that exposure limits are not exceeded.

## PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Particulate air-purifying respirator approved for dust / oil mist is recommended.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

**Eye Protection:** If dusty conditions exist, chemical goggles are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

Chemical/oil resistant clothing is recommended.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

## ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit

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emissions.

<b>SECTION 9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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**Note:** Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

**GENERAL INFORMATION**

**Physical State:** Solid  
**Form:** Pellet  
**Color:** Green  
**Odor:** Odorless  
**Odor Threshold:** N/A

**IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION**

**Relative Density (at 15 °C):** 0.53  
**Flammability (Solid, Gas):** N/A  
**Flash Point [Method]:** N/A  
**Flammable Limits (Approximate volume % in air):** LEL: N/A UEL: N/A  
**Autoignition Temperature:** N/A  
**Boiling Point / Range:** N/A  
**Decomposition Temperature:** N/D  
**Vapor Density (Air = 1):** N/A  
**Vapor Pressure:** N/A  
**Evaporation Rate (n-butyl acetate = 1):** N/A  
**pH:** N/A  
**Log Pow (n-Octanol/Water Partition Coefficient):** N/A  
**Solubility in Water:** Negligible  
**Viscosity:** N/A  
**Oxidizing Properties:** See Hazards Identification Section.

**OTHER INFORMATION**

**Freezing Point:** N/A  
**Melting Point:** N/D

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
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**REACTIVITY:** See sub-sections below.

**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Air. Moisture. High dust concentrations. High energy sources of ignition.

**MATERIALS TO AVOID:** Strong Acids, Strong Bases, Strong oxidizers, Water

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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## INFORMATION ON TOXICOLOGICAL EFFECTS

<b>Hazard Class</b>	<b>Conclusion / Remarks</b>
<b>Inhalation</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.
<b>Ingestion</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
<b>Skin</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Skin Corrosion/Irritation: No end point data for material.	Negligible irritation to skin at ambient temperatures. Based on assessment of the components.
<b>Eye</b>	
Serious Eye Damage/Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.
<b>Sensitization</b>	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.
Skin Sensitization: No end point data for material.	May cause allergic skin reaction. Based on assessment of the components.
<b>Aspiration:</b> Data available.	Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.
<b>Germ Cell Mutagenicity:</b> No end point data for material.	Not expected to be a germ cell mutagen. Based on assessment of the components.
<b>Carcinogenicity:</b> No end point data for material.	Caused cancer from prolonged, high exposure. Based on human epidemiology studies. Based on assessment of the components.
<b>Reproductive Toxicity:</b> No end point data for material.	Not expected to be a reproductive toxicant. Based on assessment of the components.
<b>Lactation:</b> No end point data for material.	Not expected to cause harm to breast-fed children.
<b>Specific Target Organ Toxicity (STOT)</b>	
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.
Repeated Exposure: No end point data for material.	Causes organ damage from prolonged or repeated exposure. Based on assessment of the components.

## OTHER INFORMATION

### For the product itself:

Target Organs Repeated Exposure: Respiratory Tract

An ingredient or ingredients that are classified as a skin sensitizer.

### Contains:

NICKEL COMPOUNDS: Nickel causes sensitization by skin contact. Studies indicate that some forms of nickel are carcinogenic to humans.

The following ingredients are cited on the lists below:

<b>Chemical Name</b>	<b>CAS Number</b>	<b>List Citations</b>
NICKEL OXIDE	1313-99-1	1, 3

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--REGULATORY LISTS SEARCHED--

1 = NTP CARC  
2 = NTP SUS

3 = IARC 1  
4 = IARC 2A

5 = IARC 2B  
6 = OSHA CARC

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
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The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

**ECOTOXICITY**

Material -- Not expected to be harmful to aquatic organisms.

<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

**DISPOSAL RECOMMENDATIONS**

Recycle empty drums at an appropriate facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal. Ensure drums are tightly sealed. Unused material should be returned for material reclaiming.

**REGULATORY DISPOSAL INFORMATION**

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. **DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.**

<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
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**LAND (DOT):** Not Regulated for Land Transport

**LAND (TDG):** Not Regulated for Land Transport

**SEA (IMDG):** Not Regulated for Sea Transport according to IMDG-Code

**Marine Pollutant:** No



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**AIR (IATA):** Not Regulated for Air Transport

## SECTION 15 REGULATORY INFORMATION

**OSHA HAZARD COMMUNICATION STANDARD:** This material is considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

**Listed or exempt from listing/notification on the following chemical inventories:** AIC, DSL, IECSC, KECI, PICCS, TSCA

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA (311/312) REPORTABLE GHS HAZARD CLASSES:** Carcinogenicity, Respiratory or Skin Sensitization, Specific Target Organ toxicity (single or repeated exposure)

**SARA (313) TOXIC RELEASE INVENTORY:**

Chemical Name	CAS Number	Typical Value
ALUMINUM OXIDE	1344-28-1	35%
NICKEL OXIDE	1313-99-1	1.99%

The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
ALUMINUM OXIDE	1344-28-1	1, 4, 13, 16, 17, 18, 19
NICKEL OXIDE	1313-99-1	1, 2, 10, 13, 15, 16, 17, 18, 19

### --REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

## SECTION 16 OTHER INFORMATION



**WARNING:** Cancer - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

This warning is given to comply with California Health and Safety Code 25249.6 and does not constitute an admission or a waiver of rights.

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N/D = Not determined, N/A = Not applicable

**KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):**

H317: May cause allergic skin reaction; Skin Sensitization, Cat 1

H350(1A): May cause cancer; Carcinogenicity, Cat 1A

H372: Causes damage to organs through prolonged or repeated exposure; Target Organ, Repeated, Cat 1

H413: May cause long lasting harmful effects to aquatic life; Chronic Env Tox, Cat 4

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**

Composition: Component Table information was modified.

Hazard Identification: HMIS Flammability information was modified.

Hazard Identification: NFPA Flammability information was modified.

Hazard Identification: Physical/Chemical Hazard information was modified.

OSHA Special Hazards Classification information was deleted.

OSHA Special Hazards Statement information was deleted.

Section 04: First Aid Ingestion information was modified.

Section 05: Fire Fighting Measures - Appropriate Extinguishing Media information was modified.

Section 05: Fire Fighting Measures - Fire Fighting Instruction information was modified.

Section 05: Fire Fighting Measures - Unusual Fire Hazards information was modified.

Section 06: Protective Measures information was modified.

Section 07: Handling and Storage - Handling information was modified.

Section 08: Exposure Control information was modified.

Section 08: Exposure Limits Table information was modified.

Section 08: Eye Protection information was modified.

Section 10: Conditions to Avoid information was deleted.

Section 10: Materials to Avoid information was modified.

Section 11: Chronic Tox - Component information was modified.

Section 11: Chronic Tox - Product information was deleted.

Section 12: Ecological Information - Bioaccumulation information was deleted.

Section 12: Ecological Information - Biodegradation information was deleted.

Section 12: Ecological Information - Mobility information was deleted.

Section 15: List Citations Table information was modified.

Section 15: SARA (311/312) REPORTABLE GHS HAZARD CLASSES information was modified.

Section 15: SARA (313) TOXIC RELEASE INVENTORY - Table information was modified.

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Internal Use Only

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PPEC: A



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