# SAFETY DATA SHEET

EM-6633



# 1. Product and company identification

Product name : EM-6633
Product description : Zeolite Catalyst

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : catalyst

Uses advised against : This product is not recommended for any industrial, professional or consumer use

other than the identified uses above.

Supplier : ExxonMobil Catalysts and Licensing LLC

22777 Springwoods Village Parkway

Spring, TX 77389 USA

24-Hour emergency telephone number

: 0800-300-5842/+1-703-527-3887 (CHEMTREC)

**Product Technical** 

Information

: 832-624-8500

SDS Internet Address : www.sds.exxonmobil.com

**Note** : The above Manufacturer/Supplier is not the importer of this product.

### 2. Hazards identification

GHS Classification : Not classified.

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.

# 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	Identifiers
platinum	0.60	CAS: 7440-06-4

# 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

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### 4. First aid measures

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training.

### See toxicological information (Section 11)

## 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical or CO2.

Unsuitable extinguishing

media

: Do not use water jet.

# Specific hazards arising from the chemical

: Adsorption of water will generate heat and possibly steam; closed containers may get very hot and build up pressure. If contact with water occurs, large quantities of heat and steam may be generated. Avoid contact with eyes. Avoid contact with skin. Avoid conditions which create dust. Avoid inhalation of dusts.

Hazardous combustion products

: Metal Oxides

# Special protective actions for fire-fighters

: Use standard firefighting procedures and consider the hazards of other involved materials. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Assure an extended cooling down period to prevent reignition. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

## NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

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### 6. Accidental release measures

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** 

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal

Large spill

: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Confine the spill immediately with booms. Skim from surface. Warn other shipping. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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.

## 7. Handling and storage

#### Handling

**Protective measures** 

Advice on general occupational hygiene : Put on appropriate personal protective equipment (see Section 8).

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Static Accumulator** 

This material is a static accumulator.

### **Storage**

Conditions for safe storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# 8. Exposure controls/personal protection

### Occupational exposure limits

Ingredient name	Exposure limits
zeolite	ACGIH TLV (United States, 1/2024) [Aluminum, metal and insoluble compounds]
	TWA 8 hours: 1 mg/m³. Form: Respirable fraction.
aluminum oxide, non fibrous	Japan Society for Occupational Health (Japan, 5/2023) [Class 1
	dusts (Activated charcoal, Alumina, Aluminium, Bentonite,
	Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cinder)]
	OEL-M 8 hours: 2 mg/m³. Form: Total dust (Class 1 Dust).
	OEL-M 8 hours: 0.5 mg/m³. Form: Respirable dust (Class 1 Dust).
	ACGIH TLV (United States, 1/2024) [Aluminum, metal and

platinum

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# 8. Exposure controls/personal protection

insoluble compounds]

TWA 8 hours: 1 mg/m³. Form: Respirable fraction.

ACGIH TLV (United States, 1/2024)

TWA 8 hours: 1 mg/m<sup>3</sup>.

For dusty conditions, ACGIH recommends for insoluble and poorly soluble particles not otherwise specified an 8-hour TWA of 10 mg/m3 (inhalable particles), 3 mg/m3 (respirable particles).

Appropriate engineering controls

 Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

**Skin protection** 

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# 9. Physical and chemical properties

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.

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### **Appearance**

Physical state : Solid. [pellet]

Color : Gray
Odor : Odorless
Odor threshold : Not available.

pH : Not applicable.

Melting point/freezing point : >1200°C (>2192°F)

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# 9. Physical and chemical properties

**Boiling point or initial** 

boiling point and boiling range

: Not available.

Flash point **Evaporation rate Flammability** 

Not applicable. Not available. Ignitable

Lower and upper explosion

Not applicable.

limit/flammability limit Vapor pressure

Relative vapor density

: Not available. : Not applicable.

**Relative density** 

: 0.5 g/cm<sup>3</sup> **Bulk density** Solubility in water : Negligible Partition coefficient: n-

octanol/water

Kinematic viscosity

Not applicable.

**Auto-ignition temperature** : Not applicable. **Decomposition temperature** 

: Not available. : Not applicable.

Particle characteristics

: Not available. Median particle size

# 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Moisture., High energy sources of ignition.

**Incompatible materials** : Strong Acids, Strong Bases, Strong oxidizers

**Hazardous decomposition** products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# 11. Toxicological information

### Information on toxicological effects

### **Acute toxicity**

Conclusion/Summary

Inhalation : Minimally Toxic. No end point data for material. Based on assessment of the

components.

**Dermal** : Minimally Toxic. No end point data for material. Based on assessment of the

components.

Oral Minimally Toxic. No end point data for material. Based on assessment of the

components.

**Irritation/Corrosion** 

**Conclusion/Summary** 

Skin Negligible irritation to skin at ambient temperatures. No end point data for material.

Based on assessment of the components.

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# 11. Toxicological information

**Eyes** 

: May cause mild, short-lasting discomfort to eyes. No end point data for material. Based on assessment of the components.

Respiratory

: Negligible hazard at ambient/normal handling temperatures. No end point data for material.

### Respiratory or skin sensitization

#### **Conclusion/Summary**

Skin

: Not expected to be a skin sensitizer. No end point data for material. Based on assessment of the components.

Respiratory

: Not expected to be a respiratory sensitizer. No end point data for material.

**Germ Cell Mutagenicity** 

**Conclusion/Summary** 

: Not expected to be a germ cell mutagen. No end point data for material. Based on assessment of the components.

**Carcinogenicity** 

**Conclusion/Summary** 

: Not expected to cause cancer. No end point data for material. Based on assessment of the components.

Reproductive toxicity

**Conclusion/Summary** 

: Not expected to be a reproductive toxicant. No end point data for material. Based on assessment of the components.

### Specific target organ toxicity (single exposure)

**Conclusion/Summary** 

: Not expected to cause organ damage from a single exposure. No end point data for material.

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Target organs
EM-6633	Not applicable.	-

Conclusion/Summary

: Not expected to cause organ damage from prolonged or repeated exposure. No end point data for material. Based on assessment of the components.

Aspiration hazard

**Conclusion/Summary** 

: Not expected to be an aspiration hazard. Based on physico-chemical properties of the material. No end point data for material.

# 12. Ecological information

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**

#### **Conclusion/Summary**

**Acute toxicity** 

: Not expected to be harmful to aquatic organisms.

**Chronic toxicity** 

: Not expected to demonstrate chronic toxicity to aquatic organisms.

### Persistence and degradability

**Biodegradability** 

: Material -- Expected to be persistent.

### **Bioaccumulative potential**

**Conclusion/Summary** 

: Material -- Potential to bioaccumulate is low.

**Mobility in soil** 

Mobility : Material -- Can float on water, but will sink when saturated.

**Hazardous to the ozone** 

<u>layer</u>

: Not applicable.

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# 12. Ecological information

Other ecological information

Other adverse effects : No known significant effects or critical hazards.

## 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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.

# 14. Transport information

	ADR	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

# 15. Regulatory information

Fire Service Law

None of the components are listed.

**Industrial Safety and Health Act** 

**Chemicals requiring notification** 

Ingredient name	%	Status	Reference number
Platinum and its water soluble salts	≤1.0	Listed	437

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# 15. Regulatory information

### Chemical Substances Control Law (CSCL)

None of the components are listed.

### **Poisonous and Deleterious Substances**

None of the components are listed.

### Pollutant Release and Transfer Registers (PRTR) - From April 2023

None of the components are listed.

**Inventory list** 

Australia inventory (AIIC) All components are listed or exempted. Canada inventory (DSL-NDSL) : All components are listed or exempted. China inventory (IECSC) : All components are listed or exempted. Japan inventory (CSCL) : All components are listed or exempted. Japan inventory (Industrial Safety and : All components are listed or exempted.

**Health Act)** 

**New Zealand Inventory of Chemicals** 

(NZIoC)

Korea inventory (KECI)

**Philippines inventory (PICCS)** 

**Taiwan Chemical Substances Inventory** 

(TCSI)

**United States inventory (TSCA 8b)** 

: All components are listed or exempted. : All components are listed or exempted.

: All components are listed or exempted.

: All components are listed or exempted.

All components are active or exempted.

### 16. Other information

**History** 

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revision

**Date of previous issue** : 1 April 2024

Version : 3.01

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

Procedure used to derive the classification

Not classified.

: Not available. References

▼ Indicates information that has changed from previously issued version.

: 1168596 **Product code** 

Notice to reader

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### 16. Other information

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