# SAFETY DATA SHEET

MC-30110



### **Section 1. Identification**

Product name : MC-30110
Product description : catalyst

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

Identified uses

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

: catalyst

22777 Springwoods Village Parkway

Spring, TX 77389 USA

24-Hour emergency telephone number

: 1-800-424-9300 / +1 703-741-5970 / +1-703-527-3887 (CHEMTREC)

**Product Technical** 

Information

: 832-624-8500

SDS Internet Address : www.sds.exxonmobil.com

### Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

#### **GHS label elements**

Hazard pictograms





Signal word : Danger

**Hazard statements** : H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

H350 - May cause cancer.

H360 - May damage fertility or the unborn child.

H372 - Causes damage to organs through prolonged or repeated exposure. (respiratory

tract)

### **Precautionary statements**

Prevention

: 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 thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves, protective clothing and eye or face protection.

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### Section 2. Hazards identification

: P302 + P352 - IF ON SKIN: Wash with plenty of water. Response

P304 + P312, P340 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

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

P363 - Wash contaminated clothing before reuse.

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

P405 - Store locked up.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

: molybdenum oxide; nickel oxide and boron oxide **Contains** 

Hazards not otherwise

: None known.

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.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% by weight	Identifiers
molybdenum oxide	≥25 - ≤50	CAS: 1313-27-5
ethanol, 2,2-oxybis-	≥10 - ≤25	CAS: 111-46-6
nickel oxide	≤10	CAS: 1313-99-1
boron oxide	≤10	CAS: 1303-86-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 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. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Continue to rinse for at least 10 minutes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Get medical attention. Wash with plenty of soap and water. In the event of any complaints or symptoms, avoid further exposure.

Skin contact

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### Section 4. First aid measures

### Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

### Potential acute health effects

Eye contact
 Inhalation
 Skin contact
 Ingestion
 Causes serious eye irritation.
 May cause respiratory irritation.
 May cause an allergic skin reaction.
 Ingestion
 May be harmful if swallowed.

### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

redness

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**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. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**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, nickel carbonyl, Oxides of carbon

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# Section 5. Fire-fighting measures

# 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 re-ignition. 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.

### Section 6. Accidental release measures

### **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.

### 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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

### 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. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

### Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. 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.

### Section 7. Handling and storage

#### **Precautions for safe handling**

### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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### Section 7. Handling and storage

# Advice on general occupational hygiene

: 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.

# Conditions for safe storage, including any incompatibilities

: 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. Store locked up. 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.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

**Occupational exposure limits** 

Ingredient name	Exposure limits
aluminum oxide, non fibrous	CAL OSHA PEL (United States, 5/2018)
	TWA 8 hours: 5 mg/m³. Form: respirable fraction.
	TWA 8 hours: 10 mg/m³. Form: total dust.
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 15 mg/m³. Form: Total dust.
	TWA 8 hours: 5 mg/m³. Form: Respirable fraction.
	OSHA PEL 1989 (United States, 3/1989)
	TWA 8 hours: 10 mg/m³. Form: Dust.
	TWA 8 hours: 5 mg/m³. Form: Respirable fraction.
	ACGIH TLV (United States, 1/2024) [Aluminum, metal and
	insoluble compounds]
	TWA 8 hours: 1 mg/m³. Form: Respirable fraction.
molybdenum oxide	CAL OSHA PEL (United States, 5/2018) [molybdenum, insoluble
	compounds as MO]
	TWA 8 hours: 3 mg/m³ (as Mo). Form: respirable fraction.
	TWA 8 hours: 10 mg/m³ (as Mo). Form: total dust.
	OSHA PEL (United States, 5/2018) [Molybdenum Insoluble
	Compounds (as Mo)]
	TWA 8 hours: 15 mg/m³ (as Mo). Form: Total dust.
	OSHA PEL 1989 (United States, 3/1989) [Molybdenum (as Mo)
	insoluble compounds]
	TWA 8 hours: 10 mg/m³ (as Mo). Form: Total dust.
	ACGIH TLV (United States, 1/2022) [Molybdenum, Metal and
	insoluble compounds Inhalable fraction / Respirable fraction, as
	Mo]
	TWA 8 hours: 10 mg/m³ (as Mo). Form: Inhalable fraction.
	TWA 8 hours: 3 mg/m³ (as Mo). Form: Respirable fraction.
aluminum phosphate	ACGIH TLV (United States, 1/2024) [Aluminum, metal and
	insoluble compounds]
	TWA 8 hours: 1 mg/m³. Form: Respirable fraction.
ethanol, 2,2-oxybis-	OARS WEEL (United States, 4/2022)
. 2. 1 1 2 . 1 .	TWA 8 hours: 10 mg/m³.
nickel oxide	NIOSH REL (United States, 10/2020) [nickel metal and other
	compounds]
	TWA 10 hours: 0.015 mg/m³ (as Ni).
	CAL OSHA PEL (United States, 5/2018) [nickel, insoluble
	compounds] TWA 8 hours: 0.1 mg/m³ (as Ni).
	OSHA PEL (United States, 5/2018) [Nickel, metal and insoluble
	OSHA FEL (United States, 3/2010) [Nickel, metal and insoluble

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### Section 8. Exposure controls/personal protection

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	compounds]
	TWA 8 hours: 1 mg/m³ (as Ni).
	OSHA PEL 1989 (United States, 3/1989) [Nickel, metal and
	insoluble compounds (as Ni)]
	TWA 8 hours: 1 mg/m³ (as Ni).
	ACGIH TLV (United States, 1/2024) [Nickel, insoluble inorganic
	compounds]
	TWA 8 hours: 0.2 mg/m³ (as Ni). Form: Inhalable fraction.
boron oxide	NIOSH REL (United States, 10/2020)
	TWA 10 hours: 10 mg/m³.
	CAL OSHA PEL (United States, 5/2018)
	TWA 8 hours: 10 mg/m <sup>3</sup> .
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 15 mg/m³. Form: Total dust.
	OSHA PEL 1989 (United States, 3/1989)
	TWA 8 hours: 10 mg/m³. Form: Total dust.
	ACGIH TLV (United States, 1/2024)
	TWA 8 hours: 10 mg/m³.

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

#### **Biological exposure indices**

Ingredient name	Exposure indices
nickel oxide	ACGIH BEI (United States, 1/2024) [nickel and inorganic compounds]  BEI: 30 µg/l, nickel [in urine after exposure to soluble compounds]. Sampling time: post-shift at end of workweek.  BEI: 5 µg/l, nickel [in urine after exposure to elemental nickel and poorly soluble compounds]. Sampling time: post-shift at end of workweek.

# Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

# **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. Contaminated work clothing should not be allowed out of the workplace. 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: chemical splash goggles. 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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### Section 8. Exposure controls/personal protection

**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.

### Section 9. Physical and chemical properties and safety characteristics

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. Color : Blue-Green Odor : Odorless Odor threshold : Not available. Ha 4.8 to 5.8 **Melting point/freezing point** : Not available.

**Boiling point or initial** boiling point and boiling

range

Flash point Closed cup: Not applicable.

: 200°C (392°F)

**Evaporation rate** Not applicable. : Ignitable **Flammability** : Not applicable.

Lower and upper explosion

limit/flammability limit

: Not applicable. Vapor pressure Relative vapor density : Not applicable. **Relative density** : Not available. **Bulk density** 0.65 g/cm<sup>3</sup>

0.55 to 0.95 g/cm<sup>3</sup> [20°C (68°F)] Density

Solubility in water : Nealiaible Partition coefficient: n-: Not applicable. octanol/water

**Auto-ignition temperature** 

: Not applicable. **Decomposition temperature** : Not available. **Viscosity** : Not applicable.

**Particle characteristics** 

: Not available. Median particle size

### Section 10. Stability and reactivity

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

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

Possibility of hazardous reactions

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

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# Section 10. Stability and reactivity

Conditions to avoid

: High dust concentrations., Moisture., Air., High energy sources of ignition.

Incompatible materials

: Strong oxidizers, strong acids, hydrogen, carbon monoxide, water

Hazardous decomposition products

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

# Section 11. Toxicological information

### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Test	Species	Result	Duration
molybdenum oxide ethanol, 2,2-oxybis-	LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal	Rat Rat Rabbit	2689 mg/kg >4.6 mg/l >5000 mg/kg	- 4 hours
	LDLo Oral	Human	500 mg/kg	-

#### **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.

Eyes

: Irritating and will injure eye tissue. No end point data for material. Based on assessment of the components.

Respiratory

 May be irritating to the respiratory tract. The effects are reversible. No end point data for material. Based on assessment of the components.

### **Respiratory or skin sensitization**

### **Conclusion/Summary**

Skin

: May cause allergic skin reaction. 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.

**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** 

: May cause cancer. No end point data for material. Based on assessment of the components.

### **Classification**

Product/ingredient name	OSHA	IARC	NTP
molybdenum oxide	-	2B	-
nickel oxide	-	1	Known to be a human carcinogen.

### **Reproductive toxicity**

**Conclusion/Summary** 

: May damage fertility. May damage the unborn child. No end point data for material. Based on assessment of the components.

### Specific target organ toxicity (single exposure)

**Conclusion/Summary** 

: May cause respiratory irritation. No end point data for material. Based on assessment of the components.

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# Section 11. Toxicological information

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Target organs
MC-30110	Category 1	respiratory tract

### Conclusion/Summary

: May cause damage to organs through 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.

#### Other information

**Contains** 

: NICKEL COMPOUNDS: Nickel causes sensitization by skin contact. Studies indicate that some forms of nickel are carcinogenic to humans. DIETHYLENE GLYCOL (DEG): Orally, DEG is more toxic to humans than animal test data indicate. Probable lethal dose for an adult is about 50 ml (2 oz.), or 2 -3 swallows. Smaller amounts may cause kidney degeneration and failure. Benign urinary bladder tumors were observed in rats, no tumors were observed in mice.

### **Section 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.

#### **Toxicity**

**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

Not determined.

**Bioaccumulative potential** 

**Conclusion/Summary** : Material -- Potential to bioaccumulate is low.

**Mobility in soil** 

Not determined.

Other ecological information

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

### Section 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.

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# **Section 14. Transport information**

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Label(s) / Marks				
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

### **Additional information**

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

### Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 307: nickel oxide

### TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112 : Listed

(b) Hazardous Air **Pollutants (HAPs)** 

**Clean Air Act Section 602** : Not listed

**Class I Substances** 

Clean Air Act Section 602 : Not listed

**Class II Substances** 

**DEA List I Chemicals** : Not listed

(Precursor Chemicals)

**DEA List II Chemicals** : Not listed

(Essential Chemicals)

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312** 

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### Section 15. Regulatory information

Classification : EYE IRRITATION - Category 2A

SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 1A
TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

#### **SARA 313**

	Product name	CAS number	%
I of the temporal g	,		≥25 - ≤50 ≤10
Supplier notification	··· <b>,</b>		≥25 - ≤50 ≤10

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### **State regulations**

**Massachusetts**: The following components are listed: ALUMINUM OXIDE; MOLYBDENUM TRIOXIDE;

NICKEL OXIDE; BORON OXIDE

New York : None of the components are listed.

New Jersey : The following components are listed: ALUMINUM OXIDE; MOLYBDENUM TRIOXIDE;

ALUMINUM PHOSPHATE; NICKEL OXIDE; BORON OXIDE

Pennsylvania : The following components are listed: ALUMINUM OXIDE; MOLYBDENUM TRIOXIDE;

ETHANOL, 2,2'-OXYBIS-; NICKEL OXIDE; BORON OXIDE

Illinois : None of the components are listed.

#### California Prop. 65

(NZIoC)

**WARNING**: Cancer - www.P65Warnings.ca.gov.

# 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 : All components are listed or exempted.

Philippines inventory (PICCS) : All components are listed or exempted.

Korea inventory (KECI) : All components are listed or exempted.

Taiwan Chemical Substances Inventory : All components are listed or exempted.

(TCSI)

United States inventory (TSCA 8b) : All components are active or exempted.

### Section 16. Other information

### **Hazardous Material Information System (U.S.A.)**



### Section 16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### **National Fire Protection Association (U.S.A.)**



#### Procedure used to derive the classification

Classification	Justification
EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 1A	Calculation method
TOXIC TO REPRODUCTION - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method
irritation) - Category 3	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method

### **New Jersey Right to Know Disclosure**

Name	CAS#
aluminum oxide, non fibrous	1344-28-1
molybdenum oxide	1313-27-5
aluminum phosphate	7784-30-7
nickel oxide	1313-99-1
boron oxide	1303-86-2
ethanol, 2,2-oxybis-	111-46-6

### **History**

Date of issue/Date of

revision

: 24 July 2024

Date of previous issue : 29 February 2024

Version : 1.01

**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

References : Not available.

Indicates information that has changed from previously issued version.

Product code : 1261459

**Notice to reader** 

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MC-30110

### Section 16. Other information

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