SAFETY DATA SHEET

EM-8500



Section 1. Identification

: EM-8500 **Product name Product description** : Metal 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

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

Product Technical

: 832-624-8500 Information

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 : SELF-HEATING SUBSTANCES AND MIXTURES - Category 1

SKIN SENSITIZATION - Category 1 **CARCINOGENICITY - Category 1A**

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

GHS label elements

Hazard pictograms







Signal word : Danger

Hazard statements : H251 - Self-heating; may catch fire.

H317 - May cause an allergic skin reaction.

H350 - May cause cancer.

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

Precautionary statements

Prevention : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P235 + P410 - Keep cool. Protect from sunlight.

P260 - Do not breathe dust.

P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

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

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

> P308 + P313 - IF exposed or concerned: Get medical advice or attention. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

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Section 2. Hazards identification

Storage

: P405 - Store locked up.

P407 - Maintain air gap between stacks or pallets.

P420 - Store separately.

Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Contains

nickel oxide and nickel

Hazards not otherwise

classified

: None known.

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
nickel oxide	≥50 - ≤75	CAS: 1313-99-1
nickel	≥10 - ≤25	CAS: 7440-02-0

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 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 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.

Skin contact

: 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.

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. 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 : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards.

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Section 4. First aid measures

Skin contact: May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.
Inhalation : No specific data.

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

: Dry Chemical, Vermiculite, Dry Sand, Soda Ash or Lime

Unsuitable extinguishing

media

: Water, CO2 or Foam

Specific hazards arising from the chemical

: Self-heating material. May catch fire. 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. This material may cause long lasting harmful effects to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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 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.

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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). Water polluting material. May be harmful to the environment if released in large quantities.

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. 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. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.

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.

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Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Store away from other materials. Maintain air gap between stacks/pallets. 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
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
	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.
nickel	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)
	TWA 8 hours: 0.5 mg/m³ (as Ni).
	OSHA PEL (United States, 5/2018) [Nickel, metal and insoluble
	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)
	TWA 8 hours: 1.5 mg/m³. Form: Inhalable fraction.
silica	NIOSH REL (United States, 10/2020) [SILICA, AMORPHOUS]
	TWA 10 hours: 6 mg/m³.
magnesium oxide	CAL OSHA PEL (United States, 5/2018)
	TWA 8 hours: 10 mg/m³ (as Mg).
	OSHA PEL (United States, 5/2018)
	TWA 8 hours: 15 mg/m³. Form: Total particulates.
	OSHA PEL 1989 (United States, 3/1989)
	TWA 8 hours: 10 mg/m³. Form: Total particulates.
	ACGIH TLV (United States, 1/2022)
	TWA 8 hours: 10 mg/m³. Form: Inhalable fraction.

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

Biological exposure indices

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Section 8. Exposure controls/personal protection

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.
nickel	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

: Engineering controls may be required to control the primary or secondary risks associated with this product. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use explosion-proof ventilation equipment.

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: safety glasses with sideshields. 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.

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.

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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

: Solid. [powder] Physical state

Color Black Odor : Odorless Odor threshold : Not available. рН : Not applicable. : >1200°C (>2192°F) **Melting point/freezing point** : Not applicable.

Boiling point or initial boiling point and boiling

range

Flash point

: Not applicable.

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

Lower and upper explosion

limit/flammability limit

: Not applicable.

: Not applicable. Vapor pressure **Relative vapor density** : Not applicable. : Not available. Relative density : 0.6 g/cm³ **Bulk density** Solubility in water Negligible Partition coefficient: n-

octanol/water

: Not applicable.

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

Particle characteristics

Median particle size : Not available.

Section 10. Stability and reactivity

Reactivity

This product, by reaction with air and without energy supply, is liable to self-heat and will ignite when in large amounts and after long periods of time. The spontaneous ignition temperature will be ≤ 50°C for a volume of 450 litres.

Chemical stability : The product is stable.

Possibility of hazardous reactions

: Hazardous reactions or instability may occur under certain conditions of storage or use.

Conditions may include the following: extended contact with air in bulk storage Reactions may include the following:

risk of causing fire spontaneous flammability

Conditions to avoid : High dust concentrations., Moisture., Elevated temperatures.

Incompatible materials Mineral Acids, Strong oxidizers, strong acids, hydrogen

Hazardous decomposition products

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

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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Test	Species	Result	Duration
EM-8500	LC50 Inhalation Vapor	Rat	>5000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

Conclusion/Summary

Inhalation : Minimally Toxic. Data available. Based on assessment of the components. Test(s)

equivalent or similar to OECD Guideline 403

Dermal : Minimally Toxic. Data available. Based on assessment of the components. Test(s)

equivalent or similar to OECD Guideline 402

Oral : Minimally Toxic.

Irritation/Corrosion Conclusion/Summary

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

Based on assessment of the components.

: May cause mild, short-lasting discomfort to eyes. No end point data for material. Based **Eyes**

on assessment of the components.

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

material. Based on assessment of the components.

Respiratory or skin sensitization

Conclusion/Summary

Skin : May cause allergic skin reaction.

Respiratory : Not expected to be a respiratory sensitizer.

Mutagenicity

Conclusion/Summary : Not expected to be a germ cell mutagen.

Carcinogenicity

Conclusion/Summary : May cause cancer.

Classification

Product/ingredient name	OSHA	IARC	NTP
nickel oxide nickel	-		Known to be a human carcinogen. Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Conclusion/Summary : Not expected to be a reproductive toxicant.

Specific target organ toxicity (single exposure)

Conclusion/Summary : Not expected to cause organ damage from a single exposure.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Target organs
EM-8500	Category 1	respiratory tract

Conclusion/Summary

Aspiration hazard

: May cause damage to organs through prolonged or repeated exposure.

Conclusion/Summary : Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.

Other information

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Section 11. Toxicological information

Contains

: NICKEL COMPOUNDS: Nickel causes sensitization by skin contact. Studies indicate that some forms of nickel are carcinogenic to humans. AMORPHOUS SILICA: Most amorphous silicas (e.g., diatomaceous earth and precipitated silica) have relatively little adverse effects, although high aerosol concentrations may cause irritation of respiratory tract or, with prolonged exposure, possible benign pneumoconiosis. Aerosols of fused amorphous silica are thought to have greater potential to cause pulmonary fibrosis.

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 : May cause long lasting harmful effects to aquatic life.

Persistence and degradability

Biodegradability : Components -- Expected to be persistent.

Bioaccumulative potential

Not determined.

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.

Section 14. Transport information

UN number	JN2881	UN2881	UN2881	UN2881
			0112001	0142001
UN proper shipping Name	Metal catalyst, dry	METAL CATALYST, DRY	METAL CATALYST, DRY	Metal catalyst, dry
Transport hazard 4 class(es)	4.2	4.2	4.2	4.2

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Section 14. Transport information

Label(s) / Marks				
Packing group	II	II	II	II
Environmental hazards	No.	No.	No.	No.

Additional information

DOT Classification : Reportable quantity 416.67 lbs / 189.17 kg. Package sizes shipped in quantities less

than the product reportable quantity are not subject to the RQ (reportable quantity)

transportation requirements.

Limited quantity No. Packaging instruction Exceptions: None. Non-bulk: 187. Bulk: 242.

Quantity limitation Passenger aircraft/rail: Forbidden. Cargo aircraft: 50 kg.

Special provisions IB6, IP2, N34, T3, TP33, W31

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.20-2.22 (Class 4).

Explosive Limit and Limited Quantity Index 0 Passenger Carrying Road or Rail Index Forbidden

Special provisions 16

IMDG : Emergency schedules F-G, S-M

Special provisions 274

IATA Quantity limitation Passenger and Cargo Aircraft: Forbidden. Packaging instructions:

Forbidden, Cargo Aircraft Only: 50 kg, Packaging instructions: 473. Limited Quantities -

Passenger Aircraft: Forbidden. Packaging instructions: Forbidden.

Special provisions A1, A3, A36

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; nickel

TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112

(b) Hazardous Air

Listed

Pollutants (HAPs)

Class I Substances

Clean Air Act Section 602

: Not listed

Clean Air Act Section 602

: Not listed

Class II Substances

DEA List I Chemicals

: Not listed

(Precursor Chemicals)

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

: 24 June 2024 Date of issue/Date of revision : 31 July 2024 Version: 1.01 10/13 Date of previous issue

Section 15. Regulatory information

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : SELF-HEATING SUBSTANCES AND MIXTURES - Category 1

> SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements			≥50 - ≤75 ≥10 - ≤25
Supplier notification			≥50 - ≤75 ≥10 - ≤25

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: NICKEL OXIDE; NICKEL; silica, amorphous;

MAGNESIUM OXIDE FUME

New York : The following components are listed: Nickel

New Jersey : The following components are listed: NICKEL OXIDE; NICKEL; MAGNESIUM OXIDE

Pennsylvania The following components are listed: NICKEL OXIDE; NICKEL CATALYST; SILICA;

MAGNESIUM OXIDE

Illinois : None of the components are listed.

California Prop. 65

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 : Not determined. **Health Act)**

New Zealand Inventory of Chemicals : All components are listed or exempted. (NZIoC)

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

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

Taiwan Chemical Substances Inventory

(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
SELF-HEATING SUBSTANCES AND MIXTURES - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A	Expert judgment Calculation method Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method

New Jersey Right to Know Disclosure

Name	CAS#
nickel oxide	1313-99-1
nickel	7440-02-0
magnesium oxide	1309-48-4
	7631-86-9

History

Date of issue/Date of

revision

: 31 July 2024

Date of previous issue : 24 June 2024

Version

: ATE = Acute Toxicity Estimate Key to abbreviations

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.

VIndicates information that has changed from previously issued version.

Product code : 1108762

Notice to reader

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Section 16. Other information

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