

SAFETY DATA SHEET

1. Identification

Product identifier NAO no Copper (see Section 16)

Other means of identification

Product code 332

Recommended use Friction Material, Brake Lining.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier Federal-Mogul Motorparts

> World Headquarters 27300 West 11 Mile Road Southfield, Michigan 48034

USA

Contact person: msds.request@federalmogul.com 24hr EP (INFOTRAC): 1-800-535-5053 **Emergency Telephone:**

International: (001) 352-323-3500

2. Hazard(s) identification

Not classified. Physical hazards Not classified. **Health hazards OSHA** defined hazards Not classified.

Label elements

Hazard symbol None. Signal word None.

Hazard statement Exempt (manufactured article).

Precautionary statement

Prevention Observe good industrial hygiene practices.

No specific first aid measures noted. Response

Store in original container. Storage

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%	
Barium sulphate	7727-43-7	8 - 45	
Calcium carbonate	1317-65-3	5 - 40	
Talc	14807-96-6	10 - 30	
Aluminum oxide	1344-28-1	0.5 - 25	
Magnesium oxide	1309-48-4	8 - 15	
Glass fiber	65997-17-3	1 - 18	
Calcined petroleum coke	64743-05-1	3 - 15	

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Cashew Friction Particle	68647-81-4	3 - 13
Graphite	7782-42-5	1 - 15
Ceramic Fiber	142844-00-6	5 - 10
Kyanite	1302-76-7	3 - 7
1,4-benzenedicarbonyl dichloride polymer with 1,4-benzenediamine	26125-61-1	0.1 - 7
Kaolin	1332-58-7	1 - 5
Wollastonite	13983-17-0	1 - 5
Crystalline silica	1317-95-9	0.5 - 3
Carbon black	1333-86-4	0.1 - 3

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The ingredients may be released as general dust from the product by operations such as overheating, burning, machining, abrading, or riveting. This product contains a variety of ingredients all of which have become part of a bound system both physically and chemically and do not necessarily exhibit the properties of the individual components.

4. First-aid measures

Inhalation Move injured person into fresh air and keep person calm under observation. If necessary, seek

hospital and take along these instructions.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

attention if irritation develops and persists.

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open Eye contact

eyelids wide apart. Get medical attention promptly if symptoms persist or occur after washing.

If swallowed, rinse mouth with water (only if the person is conscious). Get medical attention if any discomfort continues.

Most important Exposed individuals may experience eye tearing, redness, and discomfort.

symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

General information

Treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Ingestion

Use fire-extinguishing media appropriate for surrounding materials.

Specific hazards arising from

the chemical

By heating and fire, toxic vapors/gases may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards This product is not flammable.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use explosion-proof electrical equipment if airborne dust levels are high. Avoid dust formation. Avoid inhalation of dust and contact with skin and eyes. Wear necessary protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

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Methods and materials for containment and cleaning up

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container. Do not vacuum clean unless vacuum cleaners are equipped with HEPA filter. For waste disposal, see Section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Collect and dispose of spillage as indicated in Section 13 of the SDS.

7. Handling and storage

Precautions for safe handling

Provide adequate ventilation. Avoid dust formation. Avoid inhalation of dust and contact with skin and eyes. Use work methods which minimize dust production. See Section 8 of the SDS for Personal Protective Equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed original container. Avoid conditions which create dust. Protect against direct sunlight.

8. Exposure controls/personal protection

Occupational exposure limits

U.S OSHA Components	Туре	Value	Form
Calcined petroleum coke (CAS 64743-05-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
JS. OSHA Specifically Regulated Components	Substances (29 CFR 1910.1001-1053) Type	Value	
Crystalline silica (CAS 1317-95-9)	TWA	0.05 mg/m3	
US. OSHA Table Z-1 Limits for Ai Components	r Contaminants (29 CFR 1910.1000) Type	Value	Form
Aluminum oxide (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
Barium sulphate (CAS 7727-43-7)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Calcium carbonate (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Carbon black (CAS 1333-86-4)	PEL	3.5 mg/m3	
Crystalline silica (CAS 1317-95-9)	PEL	0.05 mg/m3	Respirable dust.
Graphite (CAS 7782-42-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Kaolin (CAS 1332-58-7)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Magnesium oxide (CAS 1309-48-4)	PEL	15 mg/m3	Total particulate.
US. OSHA Table Z-3 (29 CFR 1910		Walu-	Form
Components	Туре	Value	Form
Aluminum oxide (CAS 1344-28-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Barium sulphate (CAS 7727-43-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

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Components	Туре	Value	Form
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Graphite (CAS 7782-42-5)	TWA	15 mppcf	
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Magnesium oxide (CAS 1309-48-4)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Talc (CAS 14807-96-6)	TWA	0.1 mg/m3	Respirable.
		20 mppcf	
		2.4 mppcf	Respirable.
ACGIH			
Components	Туре	Value	Form
Calcined petroleum coke (CAS 64743-05-1)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
US. ACGIH Threshold Limit Values Components	Туре	Value	Form
Aluminum oxide (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Barium sulphate (CAS 7727-43-7)	TWA	5 mg/m3	Inhalable fraction.
Carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Crystalline silica (CAS 1317-95-9)	TWA	0.025 mg/m3	Respirable fraction.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Kyanite (CAS 1302-76-7)	TWA	1 mg/m3	Respirable fraction.
Magnesium oxide (CAS 1309-48-4)	TWA	10 mg/m3	Inhalable fraction.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Chemic Components	cal Hazards Type	Value	Form
Barium sulphate (CAS 7727-43-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Calcium carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m3	
Ceramic Fiber (CAS 142844-00-6)	TWA	3 fibers/cm3	Fibrous dust.

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SDS US

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US. NIOSH: Pocket Guide to Cher Components	nical Hazards Type	Value	Form
		3 fibers/cm3	Fiber.
		5 mg/m3	fibers, total dust
		5 mg/m3	Fiber, total
Crystalline silica (CAS 1317-95-9)	TWA	0.05 mg/m3	Respirable dust.
Glass fiber (CAS 65997-17-3)	TWA	3 fibers/cm3	Fibrous dust.
		3 fibers/cm3	Fiber.
		5 mg/m3	Fiber, total
		5 mg/m3	fibers, total dust
Graphite (CAS 7782-42-5)	TWA	2.5 mg/m3	Respirable.
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Use explosion-proof electrical equipment if airborne dust levels are high. Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear approved safety goggles.

Skin protection

Hand protection Wear protective gloves (i.e. latex, nitrile). Suitable gloves can be recommended by the glove

supplier.

Other Wear suitable protective clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. During dust-raising work: In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 1910.134. Respirator type: Any powered, air-purifying respirator with a

high-efficiency particulate filter.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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.

9. Physical and chemical properties

Appearance Solid (article).

Physical state Solid.
Form Solid.

Color Brownish grey.

Odor None.

Odor threshold Not applicable.

PH Not applicable.

Melting point/freezing point Not applicable.

Initial boiling point and boiling Not applicable.

range

Flash point Not applicable.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower Not applicable.

(%)

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Flammability limit - upper

(%)

Not applicable.

Not applicable. Vapor pressure Not applicable. Vapor density Relative density 1.5 - 3.5 (20 °C)

Solubility(ies)

Solubility (water) Not available. Not available. Partition coefficient

(n-octanol/water)

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

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

10. Stability and reactivity

The product is stable and non reactive under normal conditions of storage and transport. Reactivity

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

Will not occur.

Conditions to avoid None known. Incompatible materials None known.

Hazardous decomposition

products

Carbon dioxide. Carbon monoxide.

11. Toxicological information

Information on likely routes of exposure

Dust may irritate respiratory system. Inhalation may lead to deposition in lung and in sufficient Inhalation

quantities produce baritosis.

Skin contact Dust may irritate skin. Eye contact Dust may irritate the eyes.

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Exposed individuals may experience eye tearing, redness, and discomfort.

Information on toxicological effects

The ingredients may be released as general dust from the product by operations such as **Acute toxicity**

overheating, burning, machining, abrading, or riveting. Dust may cause eye, skin and respiratory

tract irritation.

Components **Species Test Results**

Barium sulphate (CAS 7727-43-7)

Acute Oral

LD50 Rat 307 g/kg

Carbon black (CAS 1333-86-4)

Acute **Dermal**

LD50 Rabbit > 3000 mg/kg

Oral

LD50 Rat > 8000 mg/kg

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Components **Species Test Results**

Graphite (CAS 7782-42-5)

Acute Oral

LD50 Rat > 10000 mg/kg

Kaolin (CAS 1332-58-7)

Acute **Dermal**

LD50 Rat > 5000 mg/kg

Inhalation

LC50 Rat > 2 mg/l, 4 Hours

Oral

LD50 Rat > 5000 mg/kg

Magnesium oxide (CAS 1309-48-4)

Acute Oral

Rat LD50 3870 - 3990 mg/kg

Talc (CAS 14807-96-6)

Acute Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Dust may irritate skin. Serious eye damage/eye Dust may irritate the eyes.

irritation

Respiratory or skin sensitization

No data available. Respiratory sensitization Skin sensitization Not a skin sensitizer. No data available. Germ cell mutagenicity

Not classified. Inhalation of Carbon black and Ceramic fiber dust may cause cancer, however due Carcinogenicity

to the physical form of the product, inhalation of dust is not likely.

3 Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

1,4-benzenedicarbonyl dichloride polymer with

1,4-benzenediamine (CAS 26125-61-1)

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans. Ceramic Fiber (CAS 142844-00-6) 2B Possibly carcinogenic to humans.

Crystalline silica (CAS 1317-95-9) 1 Carcinogenic to humans.

Glass fiber (CAS 65997-17-3) 3 Not classifiable as to carcinogenicity to humans. Wollastonite (CAS 13983-17-0) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Crystalline silica (CAS 1317-95-9) Known To Be Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Crystalline silica (CAS 1317-95-9) Cancer

Reproductive toxicity No data available. No data available. Specific target organ toxicity -

single exposure

Specific target organ toxicity -No data available.

repeated exposure

Aspiration hazard Not relevant, due to the form of the product.

The ingredients may be released as general dust from the product by operations such as **Chronic effects**

overheating, burning, machining, abrading, or riveting. May cause lung damage.

12. Ecological information

Ecotoxicity Not relevant, due to the form of the product in its manufactured and shipped state.

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Components **Species Test Results**

Barium sulphate (CAS 7727-43-7)

Aquatic

EC50 Tubificid worm (Tubifex tubifex) 28.61 - 38.03 mg/l, 48 hours Crustacea

Carbon black (CAS 1333-86-4)

Aquatic

Acute

LC50 Fish Leuciscus idus >= 1000 mg/l, 96 Hours

Kaolin (CAS 1332-58-7)

Aquatic Acute

LC50 Crustacea Daphnia magna > 1.1 g/l, 48 Hours

Persistence and degradability

The product contains inorganic compounds which are not biodegradable.

Bioaccumulative potential

Mobility in soil

Mobility in general

Not relevant, due to the form of the product. Not relevant, due to the form of the product.

No data available. Other adverse effects

13. Disposal considerations

Disposal instructions Disposal recommendations are based on material as supplied. Disposal must be in accordance

with current applicable laws and regulations, and material characteristics at time of disposal.

Dispose of in accordance with local regulations. Local disposal regulations

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

No data available.

Waste from residues / unused

products

Dispose of waste and residues in accordance with local authority requirements.

Contaminated packaging Since emptied containers retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations Under some use conditions, this material may be considered to be hazardous in accordance with

OSHA 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not established.

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Barium sulphate (CAS 7727-43-7) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Crystalline silica (CAS 1317-95-9) Cancer

lung effects

immune system effects

kidney effects

Toxic Substances Control Act (TSCA)

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Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Aluminum oxide	1344-28-1	0.5 - 25

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Contains component(s) regulated under the Safe Drinking Water Act. (SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Aluminum oxide (CAS 1344-28-1)

Barium sulphate (CAS 7727-43-7)

Calcium carbonate (CAS 1317-65-3)

Carbon black (CAS 1333-86-4)

Ceramic Fiber (CAS 142844-00-6)

Crystalline silica (CAS 1317-95-9)

Graphite (CAS 7782-42-5)

Kaolin (CAS 1332-58-7)

Magnesium oxide (CAS 1309-48-4)

Talc (CAS 14807-96-6)

US. New Jersey Worker and Community Right-to-Know Act

Aluminum oxide (CAS 1344-28-1)

Barium sulphate (CAS 7727-43-7)

Calcium carbonate (CAS 1317-65-3)

Carbon black (CAS 1333-86-4)

Ceramic Fiber (CAS 142844-00-6)

Crystalline silica (CAS 1317-95-9)

Glass fiber (CAS 65997-17-3)

Graphite (CAS 7782-42-5)

Kaolin (CAS 1332-58-7)

Magnesium oxide (CAS 1309-48-4)

Talc (CAS 14807-96-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Aluminum oxide (CAS 1344-28-1)

Barium sulphate (CAS 7727-43-7)

Calcium carbonate (CAS 1317-65-3)

Carbon black (CAS 1333-86-4)

Ceramic Fiber (CAS 142844-00-6)

Crystalline silica (CAS 1317-95-9)

Graphite (CAS 7782-42-5)

Kaolin (CAS 1332-58-7)

Magnesium oxide (CAS 1309-48-4)

Talc (CAS 14807-96-6)

US. Rhode Island RTK

Aluminum oxide (CAS 1344-28-1)

Barium sulphate (CAS 7727-43-7)

Calcium carbonate (CAS 1317-65-3)

Carbon black (CAS 1333-86-4)

Ceramic Fiber (CAS 142844-00-6)

Crystalline silica (CAS 1317-95-9)

Glass fiber (CAS 65997-17-3)

Graphite (CAS 7782-42-5)

Kaolin (CAS 1332-58-7)

Magnesium oxide (CAS 1309-48-4)

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California Proposition 65



WARNING: This product can expose you to chemicals including Crystalline silica, which is known to the State

of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon black (CAS 1333-86-4) Listed: February 21, 2003 Crystalline silica (CAS 1317-95-9) Listed: October 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Carbon black (CAS 1333-86-4) Glass fiber (CAS 65997-17-3) Magnesium oxide (CAS 1309-48-4)

Talc (CAS 14807-96-6)

International Inventories

Country(s) or region On inventory (yes/no)* Inventory name

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 19-May-2016 23-July-2019 Revision date

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1083-07, 1083-63, 1184-41, 1224-78, 3027-73, 3027-85, 3030-067, 3030-197, 3079-36, 3115-05, **Further information**

3115-36, 3115-49, 3164-09, 3173-385, 3173-435, 3173-627, 3173-627A, 3173-644, ABEX 19K PT-1, 3173-677, 3173-677A, 3173-811, ABEX6326, ABEX 20K P-2, ABEX 20K P55-2, ABEX 23K PT-1, Abex 6297D, ABB 2007, ABEX 6000, ABEX 6008-1, ABEX 6011, ABEX 6015, ABEX 6028, ABEX 6055, ABEX 6062, ABEX 6260S, ABEX 6098, ABEX 6133, ABEX 6133-1, ABEX 6139 ABEX 6166, ABEX 6260, ABEX FT, ABEX SM, AT 110, FA PM 17/20-1, FA FM200-1, FA MET, FA OE 456, FA PMT, FERODO 385, FERODO 397, FERODO 3013, FERODO OPTIPRO 825, FERODO OPTIOPRO 827, FERODO OPTIPRO 839, FERODO OPTIPRO 839-1, FC20, HD 7000, MTP 20, OEH20, OFS 20P, OFS 20PS, OTR Blue, OTR Gold, OTR Orange, OTR Silver, PC23-1, PP20, PP23S, SBP20, SBP20S, NP 20, H20167XF, H20167SF, H20168XF, H20158XF,

H26167XF, H26168XF, ULTRAA20.

Dash "-"next to the NFPA ratings indicates Not Applicable.

NFPA ratings



List of abbreviations LD50: Lethal Dose, 50%.

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LC50: Lethal Concentration, 50%.

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> sheets and standard references in occupational health and toxicology. Federal-Mogul makes no representation or warranty with respect to the information obtained from such references. The information is however, as of the date provided, true and accurate to the best of Federal-Mogul's knowledge, and should be used to make an independent determination of the methods to

safeguard workers and the environment.

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