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SECTION 1. IDENTIFICATION

Product name : 6478 F

Product code 000000000002471128

Manufacturer or supplier's details

Company : LANXESS Corporation

Product Safety & Regulatory Affairs

111 RIDC Park West Drive

Pittsburgh, Pennsylvania 15275-1112

(800) LANXESS Responsible Department

(412) 809-1000

lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or

(703) 527-3887 (Outside U.S.A) and mention CCN12916.

Lanxess Emergency Phone (800) 410-3063.

Recommended use of the chemical and restrictions on use

Recommended use : inorganic pigment

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin irritation Category 2

Serious eye damage Category 1

Carcinogenicity Category 1A

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

Category 1 (Lungs)

- repeated exposure

Specific target organ toxicity : Category 2 (Central nervous system)

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GHS label elements

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Hazard pictograms





Signal Word : Danger

Hazard Statements : Causes skin irritation.

Causes serious eye damage.

May cause cancer.

Causes damage to organs (Lungs) through prolonged or re-

peated exposure if inhaled.

May cause damage to organs (Central nervous system) through

prolonged or repeated exposure.

Precautionary Statements : Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood.

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

Wash skin thoroughly after handling.

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

Wear protective gloves/ protective clothing/ eye protection/ face

protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. IF exposed or concerned: Get medical advice/ attention. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

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Components

Chemical name	CAS-No.	Concentration (% w/w)
Crystalline Quartz Silica	14808-60-7	>= 10 - < 20
Manganese Oxide	1313-13-9	>= 10 - < 20
manganese	7439-96-5	>= 5 - < 10
aluminium oxide	1344-28-1	>= 1 - < 5
calcium oxide	1305-78-8	>= 1 - < 5
magnesium oxide	1309-48-4	>= 1 - < 5
Phosphorus Pentoxide	1314-56-3	>= 1 - < 5

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

SECTION 4. FIRST AID MEASURES

If inhaled : Remove victim to fresh air and keep at rest in a position com-

fortable for breathing. Get medical attention.

If unconscious, place in recovery position and get medical

attention immediately. Maintain open airway.

Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregulor or respiratory arrest occurs, provide artifical respiration, or oxygen by a trained

professional, using a pocket type respirator.

In case of skin contact : In case of contact, immediately flush skin with plenty of water.

Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes.

Get medical attention. Wash clothing before reuse.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses, if present and easy to do. Continue

rinsing.

Get medical attention if symptoms appear.

If swallowed : Rinse mouth with water.

Do not induce vomiting unless directed to do by medical per-

sonnel.

Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

Effects : Causes skin irritation.

Causes serious eye damage.

May cause cancer.

Causes damage to organs through prolonged or repeated

exposure if inhaled.

May cause damage to organs through prolonged or repeated

exposure.

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SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Unsuitable extinguishing

media

None known.

Hazardous combustion prod- :

ucts

Metal oxides

Oxides of phosphorus

Further information : Promptly isolate the scene by removing all persons from the

vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without

suitable training.

Special protective equipment :

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

No action shall be taken involving any personal risk or without

suitable training.

Put on appropriate personal protection equipment. Do not touch or walk through spilled material.

Evacuate personnel to safe areas.

Keep unnecessary and unprotected personnel from entering.

Provide adequate ventilation.

Avoid breathing dust.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

Move containers from spill area.

Vacuum or sweep up material and place in a designated, la-

beled waste container.

Dispose of wastes in an approved waste disposal facility.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid inhalation, ingestion and contact with skin and eyes.

Use only with adequate ventilation.

Remove contaminated clothing and protective equipment be-

fore entering eating areas.

Workers should wash hands and face before eating, drinking

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and smoking.

Put on appropriate personal protection equipment.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

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 closed when not in use.

Containers that have been opened must be carefully resealed

and kept upright to prevent leakage. Do not store in unlabeled containers.

Use appropriate container to avoid environmental contamina-

tion.

Empty containers retain residue and can be dangerous.

Do not reuse container.

Further information on stor-

age stability

: No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Crystalline Quartz Silica	14808-60-7	TWA (Respirable dust)	0.05 mg/m3	OSHA Z-1
		TWA (respir- able)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
Manganese Oxide	1313-13-9	С	5 mg/m3 (Manganese)	OSHA Z-1
		TWA (Inhal- able particu- late matter)	0.1 mg/m3 (Manganese)	ACGIH
		TWA (Respirable particulate matter)	0.02 mg/m3 (Manganese)	ACGIH
manganese	7439-96-5	C (Fumes)	5 mg/m3	OSHA Z-1

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		TWA (Inhal- able particu- late matter)	0.1 mg/m3 (Manganese)	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	0.02 mg/m3 (Manganese)	ACGIH
aluminium oxide	1344-28-1	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Respirable particulate matter)	1 mg/m3 (Aluminum)	ACGIH
calcium oxide	1305-78-8	TWA	2 mg/m3	ACGIH
		TWA	5 mg/m3	OSHA Z-1
magnesium oxide	1309-48-4	TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (fume, total particu- late)	15 mg/m3	OSHA Z-1

Engineering measures : If user operations generate dust, fumes or mist, use ventila-

tion to keep exposure to airborne contaminants below the

exposure limit.

Personal protective equipment

Respiratory protection : Respirator selection must be based on known or anticipated

exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

Recommended:

NIOSH approved, air-purifying particulate respirator with N-

95 filters.

Hand protection

Remarks : Permeation resistant gloves.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Permeation resistant clothing and foot protection.

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.

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Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Physical state : solid

Color : brown

Odor : odorless

Odor Threshold : No data available

pH : 4-8

Concentration: 5 %

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Self-ignition : Autoignition temperature

Not applicable

Burning number : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : Not applicable

Relative density : No data available

Density : No data available

Bulk density : 300 - 1,000 kg/m3

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Solubility(ies)

Water solubility : slightly soluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous reac-

tions

Under normal conditions of storage and use, hazardous reac-

tions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition

products

: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Components:

manganese:

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Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

aluminium oxide:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

calcium oxide:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

Method: OECD Test Guideline 425

GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

magnesium oxide:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Components:

Manganese Oxide:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

aluminium oxide:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

calcium oxide:

Result : Irritating to skin.

Phosphorus Pentoxide:

Assessment : Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

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Components:

Manganese Oxide:

Species : Rabbit

Result : No eye irritation

Exposure time : 72 h

Method : OECD Test Guideline 405

GLP : yes

aluminium oxide:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

calcium oxide:

Result : Risk of serious damage to eyes.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

Manganese Oxide:

Test Type : Local lymph node assay (LLNA)

Routes of exposure : Skin contact Species : Mouse

Method : OECD Test Guideline 429

Result : Did not cause sensitization on laboratory animals.

GLP : yes

aluminium oxide:

Test Type : Draize Test
Routes of exposure : Skin contact
Species : Guinea pig

Result : Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

Manganese Oxide:

Genotoxicity in vitro : Test Type: Ames test

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Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative GLP: yes

Test Type: Chromosome aberration test in vitro

Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse (female)
Cell type: In red blood cells
Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

GLP: yes

aluminium oxide:

Genotoxicity in vitro : Test system: Bacteria

Method: OECD Test Guideline 471

Result: negative

Phosphorus Pentoxide:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative GLP: ves

olr. yes

Remarks: Test results on an analogous product

Test Type: Ames test

Test system: Escherichia coli

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative GLP: yes

Remarks: Test results on an analogous product

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Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Remarks: Test results on an analogous product

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster fibroblasts

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Carcinogenicity

May cause cancer.

Components:

Crystalline Quartz Silica:

Result

Excessive exposure to airborne crystalline silica can cause fibrotic lung damage, with scarring of the lungs with cough and shortness of breath. This is called "Silicosis". This is generally a slowly developing fibrotic disease as symptoms are usually delayed for 10 years or more. Symptoms are dyspnea, chest pain, breathlessness, and cough. The chronic lung scarring developed from the silica dust causes a progressive massive fibrosis. This may lead to increased susceptibility to

tuberculosis.

Group 1: Carcinogenic to humans **IARC**

> Crystalline Quartz Silica 14808-60-7

(Silica dust, crystalline)

OSHA No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

OSHA

Known to be human carcinogen **NTP**

> Crystalline Quartz Silica 14808-60-7

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(Silica, Crystalline (Respirable Size))

Reproductive toxicity

Not classified based on available information.

Components:

Manganese Oxide:

Effects on fetal development : Test Type: Embryo-fetal development

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Species: Rat, female

Application Route: inhalation (dust/mist/fume) Frequency of Treatment: 6 hours/day General Toxicity Maternal: NOAEL: 5 mg/m³ Developmental Toxicity: NOAEL: 15 mg/m³

Method: OECD Test Guideline 414

GLP: yes

calcium oxide:

Effects on fetal development : Species: Rat

Application Route: Oral

Duration of Single Treatment: 10 d

Developmental Toxicity: NOAEL: >= 680 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic potential.

GLP: no

Species: Mouse

Application Route: Oral

Duration of Single Treatment: 10 d

General Toxicity Maternal: NOAEL: >= 440 mg/kg body weight Developmental Toxicity: NOAEL: >= 440 mg/kg body weight

Method: OECD Test Guideline 414

GLP: no

STOT-single exposure

Not classified based on available information.

Components:

aluminium oxide:

Assessment : May cause respiratory irritation.

calcium oxide:

Assessment : May cause respiratory irritation.

magnesium oxide:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

May cause damage to organs (Central nervous system) through prolonged or repeated exposure.

Components:

Crystalline Quartz Silica:

Routes of exposure : Inhalation Target Organs : Lungs

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Assessment : Causes damage to organs through prolonged or repeated

exposure.

Manganese Oxide:

Routes of exposure : Inhalation Target Organs : Brain

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

manganese:

Target Organs : Central nervous system

Assessment : May cause damage to organs through prolonged or repeated

exposure.

aluminium oxide:

Routes of exposure : Inhalation Target Organs : Lungs

Assessment : May cause damage to organs through prolonged or repeated

exposure.

Repeated dose toxicity

Components:

magnesium oxide:

Species : Rat

NOAEL : < 1,120 mg/m³
Application Route : Inhalation
Exposure time : 29 d

Remarks : Chronic toxicity

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Manganese Oxide:

Toxicity to fish : LC0 (Oncorhynchus mykiss (rainbow trout)): > 0.073 mg/l

Exposure time: 96 h Test Type: semi-static test Analytical monitoring: yes

Method: OECD Test Guideline 203

GLP: yes

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Remarks: Fresh water

No toxicity at the limit of solubility.

Toxicity to daphnia and other :

aquatic invertebrates

EC0 (Daphnia magna (Water flea)): > 0.073 mg/l

Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Remarks: Fresh water

No toxicity at the limit of solubility.

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): > 0.073

mg/l

End point: Growth rate Exposure time: 72 h Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

No toxicity at the limit of solubility.

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Ceriodaphnia dubia (Water flea)): 0.0073 mg/l

Exposure time: 8 d

Analytical monitoring: yes

Method: OECD Test Guideline 211

GLP: yes

Remarks: Fresh water

Toxicity to microorganisms :

EC50 (activated sludge): > 1,000 mg/l

End point: Respiration inhibition

Exposure time: 3 h
Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

Remarks: Fresh water nominal concentration

NOEC (activated sludge): 1,000 mg/l End point: Respiration inhibition

Exposure time: 3 h Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

Remarks: Fresh water nominal concentration

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

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Chronic aquatic toxicity : This product has no known ecotoxicological effects.

manganese:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 1,000 mg/l

Exposure time: 48 h

aluminium oxide:

Toxicity to fish : LC50 (Salmo trutta (brown trout)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

calcium oxide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 50.6 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 49.1 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: ves

Toxicity to algae/aquatic

plants

EC10 (Pseudokirchneriella subcapitata (microalgae)): 79.22

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

EC50 (Pseudokirchneriella subcapitata (microalgae)): 184.57

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: ves

Toxicity to microorganisms : EC10 (activated sludge): 300.4 mg/l

Exposure time: 3 h

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Method: OECD Test Guideline 209

GLP: yes

magnesium oxide:

Toxicity to fish : LC50 (Fish): > 10,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h

Phosphorus Pentoxide:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l

Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes

Method: OECD Test Guideline 203

GLP: yes

Remarks: Fresh water

Exposure time: 48 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: yes

Remarks: Fresh water

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): 66.5 mg/l

End point: Growth rate Exposure time: 72 h Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water

NOEC (Desmodesmus subspicatus (green algae)): 25 mg/l

End point: Growth rate Exposure time: 72 h Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: ves

Remarks: Fresh water

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

End point: Respiration inhibition

Exposure time: 3 h Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

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Remarks: Fresh water

Persistence and degradability

Components:

Manganese Oxide:

Biodegradability : Result: The methods for determining the biological degradabil-

ity are not applicable to inorganic substances.

manganese:

Biodegradability : Result: The methods for determining the biological degradabil-

ity are not applicable to inorganic substances.

aluminium oxide:

Biodegradability : Remarks: The methods for determining the biological degra-

dability are not applicable to inorganic substances.

magnesium oxide:

Biodegradability : Result: The methods for determining the biological degradabil-

ity are not applicable to inorganic substances.

Phosphorus Pentoxide:

Biodegradability : Result: The methods for determining the biological degradabil-

ity are not applicable to inorganic substances.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conserva- : tion and Recovery Authoriza-

tion Act

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classi-

fied as a hazardous waste. (40 CFR 261.20-24)

Waste from residues : The generation of waste should be avoided or minimized

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wherever possible.

Dispose of wastes in an approved waste disposal facility. This material and its container must be disposed of in a safe

The product should not be allowed to enter drains, water

courses or the soil.

Waste disposal should be in accordance with existing federal,

state, provincial and/or local environmental controls.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number UN 3077

Proper shipping name Environmentally hazardous substance, solid, n.o.s.

(ARSENIC, LEAD)

Class 9 Packing group Ш Labels 9



ERG Code 171

RQ 2,785.52 lb

Marine pollutant no

When in individual containers of less than the Product RQ, this material ships as non-regulated.

Hazard and Handling Notes.

Keep separated from foodstuffs

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ Calculated product	
		(lbs)	(lbs)
arsenic	7440-38-2	1	2785
lead	7439-92-1	10	30959

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

Manganese Ox- 1313-13-9 >= 10 - < 20 %

ide

manganese 7439-96-5 >= 5 - < 10 %

aluminium oxide 1344-28-1 >= 1 - < 5 %

US State Regulations

Massachusetts Right To Know

Crystalline Quartz Silica	14808-60-7	10 - 20
manganese	7439-96-5	5 - 10
aluminium oxide	1344-28-1	1 - 5
calcium oxide	1305-78-8	1 - 3
magnesium oxide	1309-48-4	1 - 5
Phosphorus Pentoxide	1314-56-3	1 - 3
arsenic	7440-38-2	< 0.1
chromium	7440-47-3	< 0.1
Cadmium	7440-43-9	< 0.1

Pennsylvania Right To Know

12713-03-0	> 1
14808-60-7	10 - 20
1313-13-9	10 - 20
7732-18-5	> 1
7439-96-5	5 - 10
1344-28-1	1 - 5
1305-78-8	1 - 3
1309-48-4	1 - 5
1314-56-3	1 - 3
	14808-60-7 1313-13-9 7732-18-5 7439-96-5 1344-28-1 1305-78-8 1309-48-4

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California Prop. 65

Potential exposure to some or all of the California Proposition 65 chemicals in this product have been determined to be below the No Significant Risk Level (NSRL).

WARNING: This product can expose you to chemicals including Crystalline Quartz Silica, arsenic, lead, chromium, Cadmium, which is/are known to the State of California to cause cancer, and lead, chromium, Cadmium, mercury, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Potential exposure to some or all of the California Proposition 65 chemicals in this product have been determined to be below the No Significant Risk Level (NSRL).

TSCA inventory

TSCA : This material is included in the TSCA Inventory as a naturally

occuring chemical substance as described in 40 CFR 710.4

(b).

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

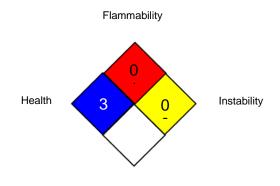
Further information

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NFPA 704:



Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

ACGIH / TWA : 8-hour, time-weighted average OSHA Z-1 / TWA : 8-hour time weighted average

OSHA Z-1 / C : Ceiling

OSHA Z-3 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials: bw - Body weight: CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population: LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose): MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Ef-

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fect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 10/19/2022

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.