

BURNT UMBER J4658

Version 2.2

Revision Date:

11/07/2018

SDS Number:

400000003474

Date of last issue: 03/14/2018 Date of first issue: 07/22/2016

SECTION 1. IDENTIFICATION

Product name

: BURNT UMBER J4658

Manufacturer or supplier's details

Company name of supplier

Address

: Venator Americas LLC : 10001 Woodloch Forest Drive

The Woodlands, TX 77380

United States of America (USA)

Telephone Telefax : (001) 844 831 6720 : (001) 281 465 6731

E-mail address of person responsible for the SDS

: msds@venatorcorp.com

Emergency telephone number

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: USA & Canada: +1-800-424-9300 Other Americas: +1-703-741-5970 [CCN 820025]

Recommended use of the chemical and restrictions on use

Recommended use

: Industrial use

Colouring agents, pigments

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Carcinogenicity (Inhalation)

: Category 1A

Specific target organ toxicity

city

- repeated exposure

(Inhalation)

: Category 2 (Lungs)

GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H350i May cause cancer by inhalation.

H373 May cause damage to organs (Lungs) through prolonged

or repeated exposure if inhaled.

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/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/



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face protection. **Response:**

P308 + P313 IF exposed or concerned: Get medical advice/

attention. Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Substance

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
diiron trioxide	1309-37-1	10 - 20
dimanganese trioxide	1317-34-6	10 - 20
limestone	1317-65-3	5 - 10
carbon black	1333-86-4	1 - 5
quartz (SiO2)	14808-60-7	1 - 5

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

Consult a physician.

If inhaled : Call a physician or poison control centre immediately.

If breathed in, move person into fresh air.

If unconscious, place in recovery position and seek medical

advice.

Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and water.

If on clothes, remove clothes.

If skin irritation persists, call a physician.

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

Remove contact lenses.



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Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed

Rinse mouth with water.

If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. DO NOT induce vomiting unless directed to do so by a

physician or poison control center.

If symptoms persist, call a physician or Poison Control Centre

immediately.

Most important symptoms and effects, both acute and delayed

: Dust contact with the eyes can lead to mechanical irritation. Inhalation of dust may cause shortness of breath, tightness of

the chest, a sore throat and cough.

The product is not irritant but as with all fine powders can absorb moisture and natural oils from the surface of the skin

during prolonged exposure.

Individuals with sensitive skin may experience skin drying on

prolonged or repeated exposure.

Protection of first-aiders

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

suitable training.

Notes to physician

: No specific measures identified.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media :

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam Dry powder

Carbon dioxide (CO2)

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

. Thigh volume water jet

Specific extinguishing

methods

Cool closed containers exposed to fire with water spray.

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information

: Standard procedure for chemical fires.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES



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Personal precautions, protective equipment and emergency procedures No action shall be taken involving any personal risk or without suitable training.

Use personal protective equipment.

Prevent unauthorised persons entering the zone.

Avoid dust formation.

Remove all sources of ignition. Ensure adequate ventilation.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Keep people away from and upwind of spill/leak.

Only qualified personnel equipped with suitable protective

equipment may intervene.

Never return spills in original containers for re-use.

Treat recovered material as described in the section "Disposal

considerations".

For disposal considerations see section 13.

The danger areas must be delimited and identified using

relevant warning and safety signs.

Environmental precautions

No special environmental precautions required.

Try to prevent the material from entering drains or water

courses.

Local authorities should be advised if significant spillages

cannot be contained.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release

(dust).

Sweep up or vacuum up spillage and collect in suitable

container for disposal.

Avoid creating dusty conditions and prevent wind dispersal.

Clean-up methods - large spillage

Use personal protective equipment as required. Keep in suitable, closed containers for disposal.

Clean contaminated floors and objects thoroughly while

observing environmental regulations.

After cleaning, flush away traces with water.

Do not flush into surface water or sanitary sewer system.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Avoid dust formation.

Provide appropriate exhaust ventilation at places where dust

is formed.

Advice on safe handling

Minimize dust generation and accumulation.

Avoid formation of respirable particles.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms.



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Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage

: Keep container tightly closed in a dry and well-ventilated place.

Observe label precautions.

Electrical installations / working materials must comply with the

technological safety standards.

Further information on storage stability

Keep in a dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
diiron trioxide	1309-37-1	TWA (Respirable fraction)	5 mg/m3	ACGIH
		TWA (Fumes)	10 mg/m3	OSHA Z-1
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
dimanganese trioxide	1317-34-6	С	5 mg/m3 (Manganese)	OSHA Z-1
		TWA (Inhalable fraction)	0.1 mg/m3 (Manganese)	ACGIH
		TWA (Respirable fraction)	0.02 mg/m3 (Manganese)	ACGIH
limestone	1317-65-3	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
quartz (SiO2)	14808-60-7	TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (Respirable fraction)	0.025 mg/m3 (Silica)	ACGIH
		TWA (Respirable dust)	0.05 mg/m3	OSHA Z-1
carbon black	1333-86-4	TWA	3 mg/m3	ACGIH



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(Inhalable fraction)		
TWA	3.5 mg/m3	OSHA Z-1

Engineering measures

: Maintain air concentrations below occupational exposure

standards.

Personal protective equipment

Respiratory protection

: WARNING! This product contains quartz, which has been classified by IARC as carcinogenic for humans (Group 1), and which can cause silicosis and lung cancer following exposure to respirable dust. It is therefore important to take particular care to avoid inhalation exposure.

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other

circumstance where air purifying respirators may not provide adequate protection.

In the case of dust or aerosol formation use respirator with an approved filter.

Dust safety masks are recommended when the dust

concentration is more than 10 mg/m3.

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines

Filter type

: Particulates type

Hand protection

Directive

: Use gloves approved to relevant standards e.g. EN 374

(Europe), F739 (US).

Eye 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 or dusts.

Tightly fitting safety goggles

Ensure that eyewash stations and safety showers are close

to the workstation location.

Skin and body protection

: Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Protective measures

: The type of protective equipment must be selected according

to the concentration and amount of the dangerous substance

at the specific workplace.

Ensure that eye flushing systems and safety showers are

located close to the working place.



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Hygiene measures

: Handle in accordance with good industrial hygiene and safety

practice.

Smoking, eating and drinking should be prohibited in the

application area.

Wash face, hands and any exposed skin thoroughly after

handling.

Remove contaminated clothing and protective equipment

before entering eating areas.

Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has

occurred.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: powder

Colour

: light brown, dark brown

Odour

: odourless

Odour Threshold

: No data available

рΗ

: No data available

Melting point

: > 1,832 °F / > 1,000 °C

> 1,832 °F / > 1,000 °C

Boiling point/boiling range

: Not applicable

Flash point

: Not applicable

Evaporation rate

: Not applicable

Flammability (solid, gas)

: Will not burn

Flammability (liquids)

Not applicable

Upper explosion limit / Upper

flammability limit

: Not applicable

Lower explosion limit / Lower

flammability limit

: Not applicable

Vapour pressure

: Not applicable

No data available

Relative vapour density

: Not applicable

No data available

Relative density

: No data is available on the product itself.



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Density

: No data is available on the product itself.

Solubility(ies)

Water solubility

: insoluble

Solubility in other solvents

: No data is available on the product itself. : No data is available on the product itself.

Partition coefficient: n-

octanol/water

Auto-ignition temperature

: Not applicable

Thermal decomposition

: No data is available on the product itself.

Self-Accelerating

decomposition temperature

(SADT)

No data is available on the product itself.

Viscosity

Viscosity, dynamic

: No data available

Viscosity, kinematic

: Not applicable

No data available

Explosive properties

Not expected to form explosive dust-air mixtures.

Oxidizing properties

No data is available on the product itself.

Particle size

: No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability Possibility of hazardous

No decomposition if stored and applied as directed. Stable under recommended storage conditions.

reactions

No hazards to be specially mentioned.

Conditions to avoid

: No data available

Incompatible materials

: peroxides, e.g. hydrogen peroxide

aluminum dust calcium hypochlorite

hydrazine Ethylene oxide caesium carbide

Hazardous decomposition

No hazardous decomposition products are known.

products

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : No data is available on the product itself.



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exposure

Acute toxicity

Components:

diiron trioxide:

Acute oral

toxicityComponents

: LD50 (Rat, male and female): > 5,000 mg/kg

Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)

LD50 (Rat, male): > 10,000 mg/kg Method: OECD Test Guideline 401

limestone:

Acute oral

toxicityComponents

: LD50 (Rat): 6,450 mg/kg

carbon black:

Acute oral

toxicityComponents

: LD50 (Rat, male and female): > 8,000 mg/kg

Method: OECD Test Guideline 401

Assessment: The substance or mixture has no acute oral

toxicity

Components:

diiron trioxide:

Acute inhalation toxicity

: LC50 (Rat, male and female): 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute

inhalation toxicity

carbon black:

Acute inhalation toxicity

: LC50 (Rat): > 4.6 mg/m3 Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity

: No data available

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Components:

diiron trioxide: Species: Rabbit Exposure time: 4 h

Assessment: No skin irritation Method: OECD Test Guideline 404

Result: No skin irritation

carbon black:



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Species: Rabbit Exposure time: 4 h

Assessment: No skin irritation Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Components:

diiron trioxide: Species: Rabbit Result: No eye irritation Exposure time: 24 h

Assessment: No eye irritation Method: OECD Test Guideline 405

limestone: Species: Rabbit

Result: Mechanical irritation of the eyes is possible.

Assessment: No eye irritation

carbon black:
Species: Rabbit
Result: No eye irritation
Assessment: No eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Components:

diiron trioxide:

Exposure routes: Dermal

Species: No information available.

Assessment: Did not cause sensitisation on laboratory animals.

Method: Other guidelines

Result: Does not cause skin sensitisation.

Exposure routes: Skin Species: Mouse

Method: OECD Test Guideline 429 Result: Does not cause skin sensitisation.

limestone:

Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

carbon black:

Test Type: Buehler Test Exposure routes: Skin Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.



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Exposure routes: Respiratory Tract

Species: Mouse

Assessment: Does not cause respiratory sensitisation.

Result: Does not cause skin sensitisation.

Assessment:

No data available

Germ cell mutagenicity

Components:

diiron trioxide:

Genotoxicity in vitro

: Test Type: Ames test

Test system: Salmonella typhimurium Concentration: 8 - 40 - 200 - 1000 - 5000 μg/

Metabolic activation: with and without metabolic activation

Method: reverse mutation assay

Result: negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster lung cells Concentration: 0, 6.25, 12.5 and 25 μ g/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

carbon black:

Genotoxicity in vitro

: Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells

Concentration: 0.00032-1 mg/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 479

Result: negative

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

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Components:

diiron trioxide:

Genotoxicity in vivo

: Test Type: in vivo assay

Species: Rat (female)

Dose: 0, 500, 1000, or 2000 mg/kg bw

Result: negative

Test Type: in vivo assay Species: Rat (male) Dose: 3.75 mg/kg bw



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Result: negative

carbon black:

Genotoxicity in vivo

Test Type: in vivo assay Species: Rat (females) Cell type: Somatic

Application Route: Inhalation Dose: 10 - 100 mg/kg Result: positive

Test Type: in vivo assay Species: Rat (females) Application Route: Inhalation Exposure time: 13 Weeks Dose: 1 - 50 mg/m3 Result: negative

Test Type: in vivo assay Application Route: Oral Exposure time: 6 h

Dose: 1%

Method: OECD Test Guideline 477

Result: negative

Components:

carbon black:

Germ cell mutagenicity-

Assessment

: Contains no ingredient listed as a mutagen

Germ cell mutagenicity-

Assessment

: No data available

Carcinogenicity

Components:

diiron trioxide:

Species: Rat, male and female

Application Route: Intraperitoneal injection

Exposure time: 790 - 914 days

Result: negative

Species: Rat, male and female

Application Route: Intraperitoneal injection

Exposure time: 798 days

Result: negative

carbon black:

Species: Mouse, female Application Route: Inhalation Exposure time: 13.5 month(s)

Dose: 7.5 - 12 mg/m³

Frequency of Treatment: 5 daily Method: OECD Test Guideline 451

Result: negative



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Species: Mouse, male and female Application Route: Dermal Exposure time: 18 month(s) Frequency of Treatment: 3 daily

Result: negative

Species: Rat, female Application Route: Oral Exposure time: 24 month(s)

Dose: 52 mg/kg

Frequency of Treatment: 7 daily

Result: negative

Species: Rat, male and female Application Route: Inhalation Exposure time: 24 month(s) Dose: 7,5 - 12,2 mg/m³

Frequency of Treatment: 5 daily Method: OECD Test Guideline 451

Result: positive Target Organs: Lungs

Species: Mouse

Application Route: Dermal Exposure time: 9 - 24 month(s)

Dose: 6 - 60%

Frequency of Treatment: 2 daily Method: OECD Test Guideline 451

Result: negative

Species: Mouse, male and female

Application Route: Oral

Exposure time: 12 - 18 month(s)

Dose: 10%

Frequency of Treatment: 7 daily

Result: negative

Species: Rat, male and female Application Route: Inhalation Exposure time: 24 month(s)

Dose: 2.5 mg/m3

Frequency of Treatment: 16 hr/day, 5 d/wk

Method: OECD Test Guideline 451

Result: positive Target Organs: Lungs

quartz (SiO2): Species: Rat

Application Route: Inhalation Exposure time: 24 month(s)

Dose: 1 mg/m³

Frequency of Treatment: 6 hour

Result: positive Target Organs: Lungs

Species: Mouse



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Application Route: Inhalation Exposure time: 24 month(s)

Dose: 1.95 mg/m³

Frequency of Treatment: 8 hour

Result: negative

Components:

carbon black: Carcinogenicity -Assessment

: Weight of evidence does not support classification as a

carcinogen

Tumours produced in rats on inhalation of very high

concentrations are believed to be the result of prolonged "lung

overload" and are not considered relevant to man.

quartz (SiO2):

: Positive evidence from human epidemiological studies

(inhalation)

IARC

Group 1: Carcinogenic to humans

quartz (SiO2)

(Silica dust, crystalline)

Group 2B: Possibly carcinogenic to humans

carbon black

ACGIH

Suspected human carcinogen

quartz (SiO2)

Confirmed animal carcinogen with unknown relevance to

humans

carbon black

OSHA

No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Reproductive toxicity

Effects on fertility

: No data available

Effects on foetal development

: No data available

Reproductive toxicity -

Assessment

: No data available

STOT - single exposure

No data available



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STOT - repeated exposure

Components:

carbon black:

Assessment: The substance or mixture is not classified as specific target organ toxicant,

repeated exposure.

quartz (SiO2):

Exposure routes: inhalation (dust/mist/fume)

Target Organs: Lungs

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

Repeated dose toxicity

Components:

diiron trioxide: Species: Rat, male >= 30 mg/m3

Application Route: inhalation (dust/mist/fume)

Test atmosphere: dust/mist Exposure time: 5 days

carbon black:

Species: Mouse, male and female NOEL: > 1000000 mg/kg Application Route: oral (feed) Exposure time: 12 - 18 months Number of exposures: continuously

Species: Rat, females NOEL: 52 mg/kg

Application Route: oral (feed) Exposure time: 52 Weeks

Number of exposures: Continously

Dose: 2.05 g/kg

Species: Mouse, females

NOEL: 137 mg/kg

Application Route: oral (feed) Exposure time: 52 Weeks

Number of exposures: Continously

Dose: 2.05 g/kg

Method: OECD Test Guideline 413

Species: Rat, male and female

LOEC: 2.5 mg/m3

Application Route: inhalation (dust/mist/fume)

Exposure time: 24 Months

Number of exposures: 16 h/day, 5 days/wk

Dose: 2.5 or 6.5 mg/m3

Method: OECD Test Guideline 452

Target Organs: Lungs

Species: Mouse, male and female

Application Route: Dermal



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Number of exposures: 3 times/week

Dose: 20%

Symptoms: see user defined free text

Repeated dose toxicity -

Assessment

: No data available

Aspiration toxicity

No data available

Experience with human exposure

General Information:

No data available

Inhalation:

No data available

Skin contact:

No data available

Eye contact:

No data available

Ingestion:

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Ingestion:

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

diiron trioxide:

Toxicity to fish

: EC50 (Brachydanio rerio (zebrafish)): > 50,000 mg/l

Exposure time: 96 h Test Type: static test

limestone:

Toxicity to fish

: LC50: > 56,000 mg/l



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Exposure time: 96 h

carbon black:

Toxicity to fish

: LC50: > 1,000 mg/l Exposure time: 96 h

Method: OECD Test Guideline 203

Components:

diiron trioxide:

Toxicity to daphnia and other

aquatic invertebrates

: EC50: > 100 mg/l Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

carbon black:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 5,600 mg/l

Exposure time: 24 h

Method: OECD Test Guideline 202

Components:

diiron trioxide:

Toxicity to algae

: EC50 (Other): > 100 mg/l

carbon black:

Toxicity to algae

: ErC50: > 10,000 mg/l Exposure time: 72 h

M-Factor (Acute aquatic

toxicity)

: No data available

Toxicity to fish (Chronic

toxicity)

: No data available

Components:

limestone:

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: EC50 (Daphnia magna (Water flea)): > 350 mg/l Exposure time: 125 d

Test Type: semi-static test Test substance: Fresh water

M-Factor (Chronic aquatic

toxicity)

: No data available

Components:

diiron trioxide:

Toxicity to microorganisms

: EC50 (activated sludge): > 10,000 mg/l

Exposure time: 3 h Test Type: static test Method: ISO 8192

carbon black:

Toxicity to microorganisms

: IC0: > 800 mg/l Exposure time: 3 h



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Method: No information available.

Toxicity to soil dwelling

organisms

: No data available

Plant toxicity

: No data available

Sediment toxicity

: No data available

Toxicity to terrestrial

organisms

: No data available

Ecotoxicology Assessment

Acute aquatic toxicity

: No data available

Chronic aquatic toxicity

: No data available

Toxicity Data on Soil

: No data available

Other organisms relevant to

the environment

: No data available

Persistence and degradability

Biodegradability - Product

: Result: Not readily biodegradable.

Components:

diiron trioxide:

Biochemical Oxygen

Demand (BOD)

: 0 mgO2/g

Components:

diiron trioxide:

Chemical Oxygen Demand

: 0 mgO2/g

(COD)

BOD/COD

: No data available

ThOD

: No data available

BOD/ThOD

: No data available

Dissolved organic carbon

(DOC)

: No data available

Physico-chemical removability

: No data available

Stability in water

: No data available

Photodegradation

: No data available

Impact on Sewage

Treatment

: No data available

Bioaccumulative potential



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Bioaccumulation - Product

: Remarks: Bioaccumulation is unlikely.

Components:

limestone:

Partition coefficient: n-

octanol/water

: log Pow: < 1

Method: No information available.

Mobility in soil

Mobility

: No data available

Distribution among

environmental compartments

: No data available

Stability in soil

: No data available

Other adverse effects

Environmental fate and

: No data available

pathways

Results of PBT and vPvB

assessment

: No data available

Endocrine disrupting

potential

: No data available

Adsorbed organic bound

halogens (AOX)

: No data available

Hazardous to the ozone layer

Ozone-Depletion Potential

Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).

Additional ecological

information

: No data available

Global warming potential

(GWP)

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

: Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of wastes in an approved waste disposal facility.



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Contaminated packaging

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

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

Not applicable for product as supplied.

National Regulations

DOT Classification

Not regulated as dangerous goods

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 313

: The following components are subject to reporting levels

established by SARA Title III, Section 313:

dimanganese trioxide

1317-34-6

>= 10 - < 20 %

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

dimanganese trioxide

1317-34-6

California Prop. 65

WARNING: This product can expose you to chemicals including quartz (SiO2), carbon black, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

CH INV

: The formulation contains substances listed on the Swiss Inventory, On the inventory, or in compliance with the inventory



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DSL AICS NZIoC ENCS KECI PICCS IECSC TCSI TSCA	í	 On the inventory, 	of this product are on the Canadian DSL or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

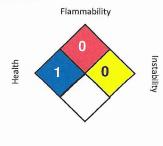
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

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

SECTION 16. OTHER INFORMATION

Further information

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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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 a 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.

LABEL CODE: 0003



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Sources of key data used to compile the Safety Data

Sheet

: Information taken from reference works and the literature.,

Information derived from practical experience.

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ACGIH : USA, ACGIH Threshold Limit Values (TLV)

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

Limits for Air Contaminants

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

Mineral 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

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