

FASTWELD 10 HARDENER US

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/20/2017 400001012601 Date of first issue: 02/20/2017

SECTION 1. IDENTIFICATION

Product name : FASTWELD 10 HARDENER US

Manufacturer or supplier's details

Company name of supplier

: Huntsman Advanced Materials Americas LLC

Address

Telephone

P.O. Box 4980 The Woodlands,

TX 77387

United States of America (USA): Non-Emergency: (800) 257-5547

E-mail address of person

responsible for the SDS

: MSDS@huntsman.com

Emergency telephone number : Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Hardener

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Skin irritation : Category 2

Serious eye damage : Category 1

Skin sensitisation : Category 1

GHS label elements

Hazard pictograms :





Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

Precautionary statements : **Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with



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water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

CENTER/UUCIUI.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

Storage: Not available Disposal:

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international

regulations.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
barium sulfate	7727-43-7	10 - 20
titanium dioxide	13463-67-7	5 - 10
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	5 - 10
Silicon, amorphous	112945-52-5	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.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.



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Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and

delayed

: None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : No data is available on the product itself.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: No data is available on the product itself.

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: No hazardous combustion products are known

No data is available on the product itself.

Specific extinguishing

methods

: No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Avoid dust formation. 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.



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Methods and materials for containment and cleaning up

: Keep in suitable, closed containers for disposal.

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 : 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.

Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Conditions for safe storage : Keep con

Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the

technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
barium sulfate	7727-43-7	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m3	ACGIH
titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH
Silicon, amorphous	112945-52-5	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3



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TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3

Personal protective equipment

Hand protection

Material : butyl-rubber

Break through time : > 8 h

Solvent-resistant gloves (butyl-rubber)

Nitrile rubber 10 - 480 min

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Colour : white

Odour : rotten-egg like

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

pH : No data is available on the product itself.

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

Melting point No data is available on the product itself.

Boiling point No data is available on the product itself.

Flash point : 132 °C

Method: Pensky-Martens closed cup, closed cup

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



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Flammability (solid, gas) : No data is available on the product itself.

Flammability (liquids) : No data is available on the product itself.

Upper explosion limit : No data is available on the product itself.

Lower explosion limit No data is available on the product itself.

: 0.010664 hPa (25 °C) Vapour pressure

Relative vapour density : No data is available on the product itself.

Relative density : 1.42

Density : No data is available on the product itself.

Solubility(ies)

slightly soluble Water solubility

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-

octanol/water

: No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

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

Self-Accelerating

decomposition temperature

(SADT)

No data is available on the product itself.

Viscosity No data is available on the product itself.

Explosive properties No data is available on the product itself.

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

No decomposition if stored and applied as directed. Reactivity No decomposition if stored and applied as directed. Chemical stability

Possibility of hazardous

reactions

: No decomposition if stored and applied as directed.

Conditions to avoid : No data available

SECTION 11. TOXICOLOGICAL INFORMATION

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

exposure



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Acute toxicity

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

Method: Calculation method

Components:

titanium dioxide:

: LC50 (Rat, male and female): 3.43 - 5.09 mg/l Acute inhalation toxicity

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute

inhalation toxicity

Silicon, amorphous:

Acute inhalation toxicity : LC50 (Rat, male and female): > 58.8 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Components:

titanium dioxide:

: LD50 Dermal (Rabbit): > 10,000 mg/kg Acute dermal toxicity

2,4,6-tris(dimethylaminomethyl)phenol:

Acute dermal toxicity : LD50 (Rat, male): > 971 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Silicon, amorphous:

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

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Product:

Result: Skin irritation

Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.



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Respiratory or skin sensitisation

Product:

Remarks: Causes sensitisation.

Components:

titanium dioxide:

Assessment: No skin irritation, No eye irritation

Does not cause skin sensitisation., Does not cause respiratory

sensitisation.

Germ cell mutagenicity

Components:

barium sulfate:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

titanium dioxide:

Genotoxicity in vitro : Test Type: Ames test

Concentration: 100 - 200 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Concentration: 31 - 500 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Chromosome aberration test in vitro

Concentration: 125 - 2500 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

2,4,6-tris(dimethylaminomethyl)phenol:

Genotoxicity in vitro : Concentration: 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Concentration: 2500 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473



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Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Silicon, amorphous:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Components:

titanium dioxide:

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse (males)
Application Route: Inhalation
Exposure time: 5 consecutive days
Dose: 0.8, 7.2, and 28.5 mg/m³
Method: OECD Test Guideline 474

Result: negative

Test Type: Micronucleus test Species: Rat (male and female)

Application Route: Oral Exposure time: once

Dose: 500, 1000, and 2000 mg/kg bw Method: OECD Test Guideline 474

Result: negative

Silicon, amorphous:

Genotoxicity in vivo : Application Route: Inhalation

Dose: 50 mg/m3 Result: negative

Components:

titanium dioxide:

Germ cell mutagenicity-

Assessment

: Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Animal testing did not show any mutagenic

effects.

Germ cell mutagenicity-

Assessment

: No data available

Carcinogenicity

Components:



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barium sulfate:

Species: Rat, (male and female)

Application Route: Oral Exposure time: 104 weeks Dose: 60 - 75 mg/kg Method: OPPTS 870.4200

Result: negative

Species: Mouse, (male and female)

Application Route: Oral Dose: 160 - 200 mg/kg Method: OPPTS 870.4200

Result: negative

titanium dioxide:

Species: Rat, (male and female)

Application Route: Oral Exposure time: 103 weeks Dose: 0, 25000, 50000 ppm

Frequency of Treatment: 7 days/week

NOAEL: > 50.000 ppm

Method: No information available.

Remarks: Titanium Dioxide: based on the results of chronic inhalation studies (with positive results only in a single species - rat), IARC has concluded that: "There is inadequate evidence in humans for the carcinogenicity of titanium dioxide." but that: "There is sufficient evidence in experimental animals for carcinogenicity of titanium dioxide". IARCs overall evaluation was that "titanium dioxide is possibly carcinogenic to humans (Group 2B)."

Huntsman has examined all of the available animal carcinogenicity and mechanistic data together with workplace epidemiology data for titanium dioxide and concludes that the weight of scientific evidence indicates that there is no causative link between titanium dioxide exposure and cancer risk in humans and that workplace exposures in compliance with applicable exposure standards will not result in lung cancer or chronic respiratory diseases in humans.

Silicon, amorphous:

Species: Rat, (male and female)

Application Route: Oral Exposure time: 103 weeks Dose: 1800 - 3200 mg/kg Frequency of Treatment: 7 daily Method: OECD Test Guideline 453

Result: negative

Components:

titanium dioxide: Carcinogenicity -

: Not classifiable as a human carcinogen.

Assessment

IARC Group 2B: Possibly carcinogenic to humans

titanium dioxide

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential



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carcinogen by ACGIH.

OSHANo component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

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

Components:

2,4,6-tris(dimethylaminomethyl)phenol:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 422

Remarks: No significant adverse effects were reported

Components:

titanium dioxide:

Effects on foetal : Species: Rat, male and female

development Application Route: Oral

Dose: 100, 300, and 1000 mg/kg bw/ Duration of Single Treatment: 20 d Frequency of Treatment: 7 days/week

General Toxicity Maternal: No observed adverse effect level:

1,000 mg/kg body weight

Developmental Toxicity: No observed adverse effect level:

1,000 mg/kg body weight

Method: OECD Test Guideline 414

Result: No adverse effects

Silicon, amorphous:

Species: Mouse

Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

1,340 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rabbit Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

1,600 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Species: Rat

Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

1,350 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects



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Components:

titanium dioxide:

Reproductive toxicity -: No evidence of adverse effects on sexual function and fertility.

Assessment or on development, based on animal experiments.

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

barium sulfate: Species: Rat

LOEC: >= 104 mg/kg, 40 mg/m3Application Route: Ingestion Test atmosphere: dust/mist

Exposure time: 5 h Number of exposures: 5 d Method: Subchronic toxicity

titanium dioxide:

Species: Rat, male and female

: 3500 mg/m3

Application Route: Ingestion Test atmosphere: dust/mist Exposure time: 2 yr Number of exposures: 5 d

Method: Chronic toxicity

Species: Rat, male and female

: 10 - 50 mg/m3

Application Route: Inhalation

Exposure time: 2 vr

Number of exposures: 6 hours/day, 5 days/week

Method: Chronic toxicity

2,4,6-tris(dimethylaminomethyl)phenol:

Species: Rat, male and female

NOEL: 15 mg/kg

Application Route: Ingestion Exposure time: 1,032 h Number of exposures: 7 d Method: Subacute toxicity

Silicon, amorphous:

Species: Rat, male and female NOAEL: 7950 - 8980 mg/kg Application Route: Ingestion



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Exposure time: 4,320 h Number of exposures: 7 d Method: Subchronic toxicity

Species: Rat, male and female

: 4000 - 4500 mg/m3

Application Route: Ingestion Test atmosphere: dust/mist Exposure time: 13 Weeks Number of exposures: 7 d

Method: OECD Test Guideline 413

Components:

titanium dioxide:

Repeated dose toxicity - : No skin irritation, No eye irritation

Assessment No adverse effect has been observed in chronic toxicity tests.

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

Product:

Remarks: No data available



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

barium sulfate:

Toxicity to fish : LC50: 174 mg/l

Exposure time: 96 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 203

titanium dioxide:

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): >

10,000 mg/l

Exposure time: 96 h
Test Type: semi-static test
Test substance: Marine water
Method: OECD Test Guideline 203

2,4,6-tris(dimethylaminomethyl)phenol:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 175 mg/l

Exposure time: 96 h
Test Type: static test
Test substance: Fresh water

Silicon, amorphous:

Toxicity to fish : LL50 (Brachydanio rerio (zebrafish)): > 10,000 mg/l

Exposure time: 96 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Components:

barium sulfate:

Toxicity to daphnia and other

aquatic invertebrates

: LC50 (Daphnia magna (Water flea)): 14.5 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

2,4,6-tris(dimethylaminomethyl)phenol:

Toxicity to daphnia and other : LC50: 718 mg/l

aquatic invertebrates Exposure time: 96 h
Test Type: static test

Test substance: Marine water

rest substance. Manne wate

Silicon, amorphous:

Toxicity to daphnia and other

aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): >= 1,000 mg/l

Exposure time: 24 h

Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202



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Components:

barium sulfate:

Toxicity to algae : EC50: > 100 mg/l

Exposure time: 72 h
Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

NOEC: > 1.15 mg/l Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 201

2,4,6-tris(dimethylaminomethyl)phenol:

Toxicity to algae : ErC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): 84 mg/l Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (Scenedesmus

subspicatus)): 6.25 mg/l Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

Silicon, amorphous:

Toxicity to algae : EL50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): > 10,000 mg/l

Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

M-Factor (Acute aquatic

toxicity)

: No data available

Toxicity to fish (Chronic

toxicity)

: No data available

Components:

barium sulfate:

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 5.8 mg/l

Exposure time: 21 d
Test Type: semi-static test
Test substance: Fresh water

Test substance: Fresh water
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic

toxicity)

: No data available

Toxicity to microorganisms : No data available



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Toxicity to soil dwelling

organisms

: No data available

Components:

titanium dioxide:

Plant toxicity : NOEC: 100,000 mg/kg

Exposure time: 480 h

Components:

titanium dioxide:

Sediment toxicity : (Gammarus pulex (Amphipod)): > 100000 mg/kgsedimentdw

Study: Acute

Test Type: semi-static test Water: Fresh water Exposure duration: 28 d Method: ASTM Method, other

(Gammarus pulex (Amphipod)): 100000 mg/kgsedimentdw

Study: Chronic

Test Type: semi-static test Water: Fresh water Exposure duration: 28 d Method: ASTM Method, other

(Gammarus pulex (Amphipod)): 14989 mg/kgsedimentdw

Study: Acute

Test Type: semi-static test Water: Marine water Exposure duration: 10 d

Components:

titanium dioxide:

Toxicity to terrestrial : NOEC: 10,000 mg/kg organisms Exposure time: 672 h

Ecotoxicology Assessment

Acute aquatic toxicity : No data available

Components:

2,4,6-tris(dimethylaminomethyl)phenol:

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

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

Persistence and degradability

Components:

2,4,6-tris(dimethylaminomethyl)phenol:

Biodegradability : Inoculum: activated sludge



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Concentration: 2 mg/l

Result: Not readily biodegradable.

Biodegradation: 4 % Exposure time: 28 d

Method: OECD Test Guideline 301D

Biochemical Oxygen

Demand (BOD)

: No data available

Chemical Oxygen Demand

(COD)

: No data available

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

Components:

titanium dioxide:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

Bioconcentration factor (BCF): 19 - 352

Exposure time: 14 d

Test substance: Fresh water Method: semi-static test

Remarks: Does not bioaccumulate.

Components:

2,4,6-tris(dimethylaminomethyl)phenol:

Partition coefficient: n- : log Pow: 0.219 (21.5 °C) octanol/water : Method: OPPTS 830.7550

Mobility in soil

Mobility : No data available

Components:

titanium dioxide:



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Distribution among

environmental compartments

Stability in soil

: No data available

: Remarks: No data available

Other adverse effects

Environmental fate and

pathways

: No data available

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 - Product

Global warming potential

(GWP)

: No data available

: 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.

Send to a licensed waste management company.

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



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Version Revision Date: SDS Number: Date of last issue: -

1.0 02/20/2017 400001012601 Date of first issue: 02/20/2017

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

SARA 311/312 Hazards : Acute Health Hazard

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

DSL : All components of this product are on the Canadian DSL AICS : On the inventory, or in compliance with the inventory NZIoC : On the inventory, or in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory PICCS : On the inventory, or in compliance with the inventory IECSC : On the inventory, or in compliance with the inventory TCSI : On the inventory, or in compliance with the inventory TSCA : On the inventory, 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.



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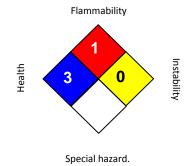
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

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

SECTION 16. OTHER INFORMATION

Further information

NFPA:



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.

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THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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