## 1. Identification

## Product identifier

Other means of identification
Product code
Recommended use
Recommended restrictions

| Manufacturer/Importer/Supplier/Distributor information |  |
| :--- | :--- |
| Company Name | FORREST Technical Coatings |
| Address | 1011 McKinley Street |
|  | P.O. Box 22110 |
| City | Eugene |
| State | OR |
| Zip | 97402 |
| Country | United States |
| Telephone | 1 (541) 342-1821 |
| Contact person | EHS Department |
| Website | www.forrestpaint.com |
| E-mail | info@forrestpaint.com |
| Emergency phone number | $1(800) 424-9300$ (CHEMTREC - Contract \# 8730) USA \& Canada |
|  | $+1703-527-3887$ (CHEMTREC - Contract \# 8730) Outside USA and Canada |

## 2. Hazard(s) identification

Physical hazards
Health hazards
Environmental hazards

OSHA defined hazards

## Label elements

## Signal word

Hazard statement

Precautionary statement
Prevention

Response

Storage
Disposal
Hazard(s) not otherwise classified (HNOC)

## REDWOOD-HEMP SHIELD DECK FINISH

HS-02CF319
Not available.
None known

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## Warning

May cause an allergic skin reaction. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves.
If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.
Store away from incompatible materials.
Dispose of contents/container in accordance with local/regional/national/international regulations.
None known

## Supplemental information

$96.18 \%$ of the mixture consists of component(s) of unknown acute oral toxicity. $96.18 \%$ of the mixture consists of component(s) of unknown acute dermal toxicity. $94.85 \%$ of the mixture consists of component(s) of unknown acute inhalation toxicity. 19.91\% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 19.91\% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

## Mixtures

| Chemical name | Common name and synonyms | CAS number |
| :--- | :---: | :---: |
| IRON OXIDE | $1309-37-1$ | $\%$ |
| bis(1,2,2,6,6-PENTAMETHYL-4-PIP <br> ERIDYL)SEBACATE | $41556-26-7$ | $1-2.5$ |
| METHYL BENZIMIDAZOLE-2-YL <br> CARB | $10605-21-7$ | $0-<1$ |
| Other components below reportable levels $0-<1$ <br> *Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.  | $90-100$ |  |

## 4. First-aid measures

## Inhalation

Skin contact

## Eye contact

## Ingestion

## Most important <br> symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

## General information

## 5. Fire-fighting measures

## Suitable extinguishing media

## Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters
Fire fighting equipment/instructions

Specific methods
General fire hazards

Move to fresh air. Call a physician if symptoms develop or persist.
Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Rinse with water. Get medical attention if irritation develops and persists.
Rinse mouth. Get medical attention if symptoms occur.
May cause an allergic skin reaction. Dermatitis. Rash.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

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

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.
Use standard firefighting procedures and consider the hazards of other involved materials.
No unusual fire or explosion hazards noted.

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Prevent product from entering drains.
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

[^0]
## 7. Handling and storage

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

Occupational exposure limits
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value | Form |
| :--- | :--- | :--- | :--- |
| IRON OXIDE (CAS | PEL | $10 \mathrm{mg} / \mathrm{m} 3$ | Fume. |

1309-37-1)
US. OSHA Table Z-3 (29 CFR 1910.1000)

| Components | Type | Value | Form |
| :--- | :--- | :--- | :--- |
| IRON OXIDE (CAS   <br> 1309-37-1) TWA $5 \mathrm{mg} / \mathrm{m} 3$ | Respirable fraction. |  |  |
|  |  | $15 \mathrm{mg} / \mathrm{m} 3$ | Total dust. |
|  |  | 50 mppcf | Total dust. |
|  |  | 15 mppcf | Respirable fraction. |


| US. ACGIH Threshold Limit Values <br> Components | Type | Value | Form |
| :--- | :--- | :--- | :--- |
| IRON OXIDE (CAS | TWA | $5 \mathrm{mg} / \mathrm{m} 3$ | Respirable fraction. |
| 1309-37-1) |  |  |  |


| US. NIOSH: Pocket Guide to Chemical Hazards <br> Components |
| :--- |
| Type |

## Biological limit values

Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).
Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, such as personal protective equipment
Eye/face protection Face shield is recommended. Wear safety glasses with side shields (or goggles).
Skin protection
Hand protection Wear appropriate chemical resistant gloves.
Other
Respiratory protection
Thermal hazards
General hygiene
considerations
Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
In case of insufficient ventilation, wear suitable respiratory equipment.
Wear appropriate thermal protective clothing, when necessary.
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

## Appearance

Physical state Liquid.
Form Liquid.

| Material name: REDWOOD-HEMP SHIELD DECK FINISH |  | SDS US |
| :--- | :--- | ---: | :--- |
| HS-02CF319 | Version \#: 02 Revision date: $06-15-2021$ | Issue date: 06-13-2018 |


| Color | Red brown. |
| :--- | :--- |
| Odor | Not available. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point <br> Initial boiling point and boiling <br> range | Not available. |
| Flash point | Not available. |
| Evaporation rate |  |
| Flammability (solid, gas) | Not available. |

Upper/lower flammability or explosive limits
Flammability limit - lower Not available.
(\%)
Flammability limit - upper Not available.
(\%)
Explosive limit - lower (\%) Not available.
Explosive limit - upper (\%) Not available.
Vapor pressure $\quad 31.7 \mathrm{hPa}$ estimated
Vapor density Not available.
Relative density Not available.
Solubility(ies)
Solubility (water) Not available.
Partition coefficient Not available.
( n -octanol/water)

| Auto-ignition temperature | Not available. |
| :---: | :---: |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information |  |
| Density | $8.42 \mathrm{lb} / \mathrm{gal}$ |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |
| Percent volatile | 77.23 \%w/w |
| Specific gravity | 1.01 |
| vOC | $44.9 \mathrm{~g} / \mathrm{I}$ COATING |
|  | $10.28 \mathrm{~g} / \mathrm{I}$ MATERIAL |

## 10. Stability and reactivity

Reactivity
Chemical stability
Possibility of hazardous
reactions
Conditions to avoid
Incompatible materials
Hazardous decomposition products

The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions.
No dangerous reaction known under conditions of normal use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Strong oxidizing agents.
No hazardous decomposition products are known.

## 11. Toxicological information

| Information on likely routes of exposure |  |
| :--- | :--- |
| Inhalation | Prolonged inhalation may be harmful. |
| Skin contact | May cause an allergic skin reaction. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Ingestion | Expected to be a low ingestion hazard. |


| Symptoms related to the physical, chemical and toxicological characteristics | May cause an allergic skin reaction. Dermatitis. Rash. |
| :---: | :---: |
| Information on toxicological effects |  |
| Acute toxicity | Not known. |
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. |
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. |
| Respiratory or skin sensitization |  |
| Respiratory sensitization | Not a respiratory sensitizer. |
| Skin sensitization | May cause an allergic skin reaction. |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than $0.1 \%$ are mutagenic or genotoxic. |
| Carcinogenicity | Not classifiable as to carcinogenicity to humans. |
| IARC Monographs. Overall Evaluation of Carcinogenicity |  |
| IRON OXIDE (CAS 1309 | 37-1) 3 Not classifiable as to carcinogenicity to humans. |
| OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) |  |
| Not regulated. <br> US. National Toxicology Program (NTP) Report on Carcinogens |  |
|  |  |
| Not listed. |  |
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. |
| Specific target organ toxicity single exposure | Not classified. |
| Specific target organ toxicity repeated exposure | Not classified. |
| Aspiration hazard | Not an aspiration hazard. |
| Chronic effects | Prolonged inhalation may be harmful. |

## 12. Ecological information

Ecotoxicity
Toxic to aquatic life with long lasting effects.
Components Species Test Results
METHYL BENZIMIDAZOLE-2-YL CARB (CAS 10605-21-7)
Aquatic
Fish LC50 Channel catfish (Ictalurus punctatus) $0.009-0.015 \mathrm{mg} / \mathrm{l}, 96$ hours
Persistence and degradability $\quad$ No data is available on the degradability of any ingredients in the mixture.
Bioaccumulative potential

| Partition coefficient n-octanol / water (log Kow) |
| :--- | :--- |
| METHYL BENZIMIDAZOLE-2-YL CARB |


| Mobility in soil | No data available. |
| :--- | :--- |
| Other adverse effects | The product contains volatile organic compounds which have a photochemical ozone creation <br> potential. |

## 13. Disposal considerations

| Disposal instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow <br> this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches <br> with chemical or used container. Dispose of contents/container in accordance with <br> local/regional/national/international regulations. |
| :--- | :--- |
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste <br> disposal company. |
| Waste from residues / unused | Dispose of in accordance with local regulations. Empty containers or liners may retain some <br> product residues. This material and its container must be disposed of in a safe manner (see: |
| products | Disposal instructions). |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is <br> emptied. Empty containers should be taken to an approved waste handling site for recycling or <br> disposal. |

[^1]
## 14. Transport information

DOT
Not regulated as dangerous goods.
IATA
Not regulated as dangerous goods.
IMDG
Not regulated as dangerous goods.
Transport in bulk according to Not established.
Annex II of MARPOL 73/78 and
the IBC Code

## 15. Regulatory information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4) METHYL BENZIMIDAZOLE-2-YL CARB Listed. (CAS 10605-21-7)
SARA 304 Emergency release notification Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) Not regulated.
Superfund Amendments and Reauthorization Act of 1986 (SARA)
SARA 302 Extremely hazardous substance Not listed.

## SARA 311/312 Hazardous <br> Yes

chemical
Classified hazard Respiratory or skin sensitization categories

SARA 313 (TRI reporting) Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.
Safe Drinking Water Act Contains component(s) regulated under the Safe Drinking Water Act. (SDWA)

## US state regulations

## California Proposition 65



WARNING: This product can expose you to CRYSTALLINE QUARTZ SILICA, which is known to the State of California to cause cancer, and ETHYLENE GLYCOL, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance
CRYSTALLINE QUARTZ SILICA (CAS 14808-60-7) Listed: October 1, 1988
California Proposition 65-CRT: Listed date/Developmental toxin
ETHYLENE GLYCOL (CAS 107-21-1) Listed: June 19, 2015
US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
bis(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL)SEBACATE (CAS 41556-26-7)Australian Inventory of Chemical Substances (AICS)Domestic Substances List (DSL)No
Canada Non-Domestic Substances List (NDSL) ..... No
China Inventory of Existing Chemical Substances in China (IECSC) ..... No
Europe European Inventory of Existing Commercial Chemical ..... No
Substances (EINECS)
Europe European List of Notified Chemical Substances (ELINCS) ..... No
Japan Inventory of Existing and New Chemical Substances (ENCS) ..... No
Korea Existing Chemicals List (ECL) ..... No
New ZealandNew Zealand InventoryNo
Philippines Philippine Inventory of Chemicals and Chemical Substances ..... No(PICCS)
TaiwanTaiwan Chemical Substance Inventory (TCSI)No
United States \& Puerto Rico Toxic Substances Control Act (TSCA) Inventory ..... No*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governingcountry(s).
16. Other information, including date of preparation or last revision

| Issue date | $06-13-2018$ |
| :--- | :--- |
| Revision date | $06-15-2021$ |
| Version \# | Health: 2 <br> Flammability: 0 <br> Physical hazard: 0 <br> Health: 2 <br> Flammability: 0 <br> Instability: 0 |
| NFPA ratings | The information and recommendations in this safety data sheet are, to the best of our knowledge, |
| NFPA ratings | accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, <br> expressed or implied. It is the responsibility of the user to determine the applicability of this <br> information and the suitability of the material or product for any particular purpose. |
| This document has undergone significant changes and should be reviewed in its entirety. |  |


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