

Version 1.5 Revision Date: 10-27-2021

Date of last issue: 01-22-2020 Date of first issue: 12-07-2015

SECTION 1. IDENTIFICATION

| Product name | : | COTELLIC(R) Tablets (20 mg) | |
|--|------|--|----------------|
| Product code | : | RO551-4041/F04 | |
| Common name(s), synonym(s) of the substance | : | BS10010, BS10336, BS10337 Cobimetinib F.C. Tablets 20 m Cobimetinib Film Coated Table Cobimetinib Tablets 20 mg | • |
| Manufacturer or supplier's o | leta | iils | |
| Company name of supplier | : | Genentech, Inc. | |
| Address | : | 1 DNA Way South San Francisco, CA 9408 USA | 0 |
| Telephone | : | 001-(650) 225-1000 | |
| E-mail address Emergency telephone | : | info.sds@roche.com | |
| Emergency telephone number | : | US Chemtrec phone | (800)-424-9300 |
| Recommended use of the cl | hen | nical and restrictions on use | |
| Recommended use | : | Formulated pharmaceutical act | tive substance |
| Restrictions on use | : | For professional users only. | |

SECTION 2. HAZARDS IDENTIFICATION

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

| Acute toxicity (Oral) | : | Category 4 |
|---|---|--|
| Carcinogenicity | : | Category 1A |
| Reproductive toxicity | : | Category 1B |
| GHS label elements Hazard pictograms | : | |
| Signal Word | : | Danger |
| Hazard Statements | : | H302 Harmful if swallowed. H350 May cause cancer. H360D May damage the unborn child. |



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Precautionary Statements

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

Mixture

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture :

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|--|--------------|-----------------------|
| Cobimetinib | 1369665-02-0 | 17.8 |
| Cellulose | 9004-34-6 | 43.9 |
| Lactose-1-Hydrate | 64044-51-5 | 29.2 |
| Croscarmellose sodium | 74811-65-7 | 3.9 |
| Ethenol, homopolymer | 9002-89-5 | 1.5 |
| Octadecanoic acid, magnesium salt (2:1) | 557-04-0 | 1.4 |
| Titanium oxide (TiO2) | 13463-67-7 | < 1.0 |
| Poly(oxy-1,2-ethanediyl), .alpha hydroomegahydroxy- | 25322-68-3 | 0.8 |
| Talc (Mg3H2(SiO3)4) | 14807-96-6 | 0.6 |

SECTION 4. FIRST AID MEASURES

| General advice | Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended. |
|----------------|---|
| If inhaled | : Move to fresh air. If unconscious, place in recovery position and seek medical |



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| | | advice. If symptoms persist, call a physician. |
| In case of skin contac | t : | If on skin, rinse well with water. |
| In case of eye contact | | Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | | Keep respiratory tract clear. 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. Rinse mouth with water. |
| Most important sympt and effects, both acut delayed | e and | Harmful if swallowed. May cause cancer. May damage the unborn child. |
| Notes to physician | | The first aid procedure should be established in consultation with the doctor responsible for industrial medicine. |

SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|--|---|---|
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during fire fighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : | Carbon oxides In case of fire hazardous decomposition products may be produced such as: Hydrogen fluoride Nitrogen oxides (NOx) |
| 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 fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, | : | Avoid exposure |
|--------------------------|---|------------------------------------|
| protective equipment and | | Use personal protective equipment. |

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| | emergency procedures | 5 | Avoid dust format Avoid breathing o | |
| | Environmental precaut | ions : | Prevent further le | rom entering drains. akage or spillage if safe to do so. taminates rivers and lakes or drains inform ities. |
| | Methods and materials containment and clean | | 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 vapors/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. |
| Conditions for safe storage | : | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards. |
| Further information on storage conditions | : | See label, package insert or internal guidelines |
| Storage temperature | : | Store at room temperature. Protected from heat and light Protect from moisture. |
| Further information on storage stability | : | No decomposition if stored and applied as directed. |
| Packaging material | : | Suitable material: glass, Stainless steel |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type (Form of | Control parameters / | Basis |
|------------|---------|------------------------|----------------------|-------|
|------------|---------|------------------------|----------------------|-------|

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| | | exposure) | Permissible concentration | |
|--|------------------|--|---|---|
| Cellulose | 9004-34-6 | TWA | 10 mg/m3 | ACGIH |
| | | TWA (Respirable) | 5 mg/m3 | NIOSH REL |
| | | TWA (total) | 10 mg/m3 | NIOSH REL |
| | | TWA (total dust) | 15 mg/m3 | OSHA Z-1 |
| | | TWA (respirable fraction) | 5 mg/m3 | OSHA Z-1 |
| | | TWA (Total dust) | 15 mg/m3 | OSHA P0 |
| | | TWA (respirable dust fraction) | 5 mg/m3 | OSHA P0 |
| Cobimetinib | 1369665-02- 0 | IOEL | 0.001 mg/m3 | Roche Industrial Hygiene Committee (RIHC) |
| Octadecanoic acid, magnesium salt (2:1) | 557-04-0 | TWA (Inhalable particulate matter) | 10 mg/m3 | ACGIH |
| | | TWA (Respirable particulate matter) | 3 mg/m3 | ACGIH |
| Titanium oxide (TiO2) | 13463-67-7 | TWA (total dust) | 15 mg/m3 | OSHA Z-1 |
| | | TWA (Total dust) | 10 mg/m3 | OSHA P0 |
| | | TWÁ | 10 mg/m3 (Titanium dioxide) | ACGIH |
| Talc (Mg3H2(SiO3)4) | 14807-96-6 | TWA (Dust) | 20 Million particles per cubic foot | OSHA Z-3 |
| | | TWA (Respirable) | 2 mg/m3 | NIOSH REL |
| | | TWA (Respirable particulate matter) | 2 mg/m3 | ACGIH |

Predicted No Effect Concentration (PNEC):

| Substance name | Environmental Compartment | Value |
|----------------|---------------------------|-----------|
| Cobimetinib | Surface waters | 8.98 µg/l |
| | Remarks: | |
| | Based on chronic data | |

Engineering measures : No data available

Personal protective equipment

Respiratory protection

: In the case of dust or aerosol formation use respirator with an

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | tablet |
|------------------------------|---|-------------------|
| Color | : | white |
| Odor | : | Not applicable |
| Odor Threshold | : | Not applicable |
| рН | : | No data available |
| Melting point/freezing point | : | No data available |
| Boiling point/boiling range | : | No data available |
| Evaporation rate | : | No data available |
| Self-ignition | : | No data available |



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| | Upper explosion limit / flammability limit | Upper : | No data availabl | e |
| | Lower explosion limit / flammability limit | Lower : | No data availabl | e |
| | Vapor pressure | : | No data availabl | e |
| | Relative vapor density | : | Not applicable | |
| | Relative density | : | No data availabl | e |
| | Solubility(ies) Water solubility | : | No data availabl | e |
| | Solubility in other s | olvents : | No data availabl | е |
| | Partition coefficient: n- octanol/water | · : | No data availabl | e |
| | Autoignition temperatu | ire : | No data availabl | e |
| | Decomposition temper | rature : | No data availabl | e |
| | Viscosity Viscosity, dynamic | : | Not applicable | |
| | Viscosity, kinematio | c : | Not applicable | |
| | | | | |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | : | No dangerous reaction known under conditions of normal use. |
|------------------------------------|---|---|
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reactions | : | No decomposition if stored and applied as directed. |
| Incompatible materials | : | No data available |
| Hazardous decomposition products | : | No data available |

SECTION 11. TOXICOLOGICAL INFORMATION

| Acute toxicity Harmful if swallowed. | |
|---|--|
| Product: Acute oral toxicity | : Acute toxicity estimate: 560.3 mg/kg Method: Calculation method |
| Acute dermal toxicity | : Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method |

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| Components: | | |
|---------------------------|------|---|
| Cellulose: | | |
| Acute oral toxicity | : | LD50 Oral (Rat): > 5,000 mg/kg |
| Acute dermal toxicity | : | LD50 Dermal (Rabbit): > 2,000 mg/kg |
| Lactose-1-Hydrate: | | |
| Acute oral toxicity | : | LD50 Oral (Rat): > 10,000 mg/kg |
| Acute inhalation toxicity | : | Acute toxicity estimate: > 30 mg/l Test atmosphere: dust/mist Method: Expert judgment |
| Acute dermal toxicity | : | Acute toxicity estimate: > 5,001 mg/kg Method: Expert judgment |
| Cobimetinib: | | |
| Acute oral toxicity | : | LD50 Oral (Rat): > 60 - < 75 mg/kg |
| | | GLP: yes The value is given in analogy to the following substances: Cobimetinib (free base) |
| | | NOAEL (No observed adverse effect level) (Rat): 30 mg/kg |
| | | GLP: yes The value is given in analogy to the following substances: Cobimetinib (free base) |
| Ethenol, homopolymer: | | |
| Acute oral toxicity | : | LD50 Oral (Rat): > 20,000 mg/kg |
| Acute inhalation toxicity | : | Acute toxicity estimate: > 30 mg/l Test atmosphere: dust/mist Method: Expert judgment |
| Acute dermal toxicity | : | Acute toxicity estimate: > 5,001 mg/kg Method: Expert judgment |
| Octadecanoic acid, magnes | siun | n salt (2:1): |
| Acute oral toxicity | | LD50 Oral (Rat): > 2,000 mg/kg |
| Titanium oxide (TiO2): | | |
| Acute oral toxicity | : | LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 425 |
| Acute inhalation toxicity | : | LC50 (Rat): > 6.82 mg/l Exposure time: 4 h Test atmosphere: dust/mist |
| Acute dermal toxicity | : | LD50 (Rabbit): > 5,000 mg/kg |

COTELLIC(R) Tablets (20 mg) Version **Revision Date:** Date of last issue: 01-22-2020 1.5 10-27-2021 Date of first issue: 12-07-2015 Skin corrosion/irritation Not classified based on available information. Components: **Cobimetinib:** Method in silico model 1 Result No skin irritation : The value is given in analogy to the following substances: Cobimetinib (free base) Ethenol, homopolymer: Remarks : This information is not available. Titanium oxide (TiO2): Species Rabbit Method **OECD** Test Guideline 404 : Result No skin irritation Talc (Mg3H2(SiO3)4): Remarks This information is not available. 2 Serious eye damage/eye irritation Not classified based on available information. **Components:** Ethenol, homopolymer: Remarks This information is not available. • Titanium oxide (TiO2): Species Rabbit : Result No eve irritation 1 Method : **OECD** Test Guideline 405 Talc (Mg3H2(SiO3)4): Remarks This information is not available. : Respiratory or skin sensitization Skin sensitization Not classified based on available information. **Respiratory sensitization** Not classified based on available information. Components: Titanium oxide (TiO2): Species : Guinea pig Does not cause skin sensitization. Assessment 1 **OECD** Test Guideline 406 Method 5

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|------------------------------|--|--------------------------|---|--|--|--|--|--|--|
| Corm coll mu | | | | | | | | | |
| | Germ cell mutagenicity Not classified based on available information. | | | | | | | | |
| <u>Components</u> | <u>):</u> | | | | | | | | |
| Cobimetinib: | : | | | | | | | | |
| Genotoxicity i | n vitro | The value i | gative n vitro tests did not show mutagenic effects is given in analogy to the following substances b (free base) | | | | | | |
| Germ cell mu Assessment | tagenicity - | The value i | is did not show mutagenic effects is given in analogy to the following substances b (free base) | | | | | | |
| Carcinogenio | • | | | | | | | | |
| May cause ca | | | | | | | | | |
| <u>Components</u> | <u>5:</u> | | | | | | | | |
| Cellulose: Remarks | | · No ingradia | ent of this product present at levels greater tha | | | | | | |
| Remarks | | equal to 0. | 1% is identified as probable, possible or confirr cinogen by IARC. | | | | | | |
| Lactose-1-Hy | ydrate: | | | | | | | | |
| Remarks | | equal to 0. | ent of this product present at levels greater that 1% is identified as probable, possible or confirr cinogen by IARC. | | | | | | |
| IARC | Group 2B: Poss Titanium oxide | | enic to humans 13463-67-7 | | | | | | |
| OSHA | No component on OSHA's list | | present at levels greater than or equal to 0.1% arcinogens. | | | | | | |
| NTP | Known to be hu Talc (Mg3H2(S (Silica, Crystalli | iO3)4) | 14807-96-6 | | | | | | |
| Reproductive | - | | | | | | | | |
| | the unborn child. | | | | | | | | |
| <u>Components</u> | <u>):</u> | | | | | | | | |
| Cobimetinib: | | | | | | | | | |
| Reproductive Assessment | toxicity - | reproductiv The value | ge the unborn child., Presumed human re toxicant is given in analogy to the following substances b (free base) | | | | | | |

Not classified based on available information.

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| | Components: | | | | | | | |
| | Lactose-1-Hydrate: | | | | | | | |
| | Assessment | : | | estance or mixture is not classified as specific target exposure. | | | | |
| | Ethenol, homopolym | er: | | | | | | |
| | Assessment | : | | ostance or mixture is not classified as specific target oxicant, single exposure. | | | | |
| | Octadecanoic acid, n | nagnesium | salt (2:1) | I): | | | | |
| | Assessment | : | | ostance or mixture is not classified as specific target oxicant, single exposure. | | | | |
| | Talc (Mg3H2(SiO3)4) | : | | | | | | |
| | Assessment | : | | estance or mixture is not classified as specific target exicant, single exposure. | | | | |
| | STOT-repeated expo Not classified based or | | informatic | on. | | | | |
| | <u>Components:</u> | | | | | | | |
| | Lactose-1-Hydrate: | | | | | | | |
| | Assessment | : | | estance or mixture is not classified as specific target oxicant, repeated exposure. | | | | |
| | Ethenol, homopolym | er: | | | | | | |
| | Assessment | : | | estance or mixture is not classified as specific target exicant, repeated exposure. | | | | |
| | Octadecanoic acid, magnesium salt (2:1): | | | | | | | |
| | Assessment | : | The subs | ostance or mixture is not classified as specific target poxicant, repeated exposure. | | | | |
| | Talc (Mg3H2(SiO3)4): | : | | | | | | |
| | Assessment | : | | ostance or mixture is not classified as specific target oxicant, repeated exposure. | | | | |
| | Repeated dose toxic | ty | | | | | | |
| | Components: | | | | | | | |
| | Cobimetinib: | | | | | | | |
| | Species | : | Rat | | | | | |
| | NOAEL Application Route | : | 1 mg/kg Oral | bw/day | | | | |
| | Exposure time | : | 28 Days | 3 | | | | |
| | Test substance | : | yes | | | | | |
| | Remarks The value is given in a | : nalogy to tł | | te toxicity ng substances: Cobimetinib (free base) | | | | |
| | | | | | | | | |

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| Species | : | Rat | | | |
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| LOAEL | : | >3 mg/kg bw/day | | | |
| Application Route | : | Oral | | | |
| Exposure time | : | 13 Weeks | | | |
| Test substance | : | yes | | | |
| Remarks | : | Subchronic toxicity | | | |
| The value is given in analogy to the following substances: Cobimetinib (free base) | | | | | |

Aspiration toxicity

Not classified based on available information.

Components:

Lactose-1-Hydrate:

No data available

Ethenol, homopolymer:

No data available

Octadecanoic acid, magnesium salt (2:1):

No data available

Talc (Mg3H2(SiO3)4):

No data available

Further information

Components:

Cobimetinib:

Remarks : Not phototoxic The value is given in analogy to the following substances: Cobimetinib (free base)

SECTION 12. ECOLOGICAL INFORMATION

| Ecotoxicity | | |
|--|---|---|
| Components: | | |
| Cellulose: | | |
| Ecotoxicology Assessment Acute aquatic toxicity | : | This product has no known ecotoxicological effects. |
| Chronic aquatic toxicity | : | This product has no known ecotoxicological effects. |
| Lactose-1-Hydrate: Toxicity to fish | : | LC50: > 100 mg/l |

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| - | | | |
|---|---|---|---|
| | | | Exposure time: 96 h |
| | Toxicity to fish (Chronic toxicity) | : | > 1 mg/l |
| | Ecotoxicology Assessment Acute aquatic toxicity | : | This product has no known ecotoxicological effects. |
| | Chronic aquatic toxicity | : | This product has no known ecotoxicological effects. |
| | Toxicity Data on Soil | : | Not expected to adsorb on soil. |
| | Other organisms relevant to the environment | : | No data available |
| | Cobimetinib: Toxicity to fish | : | LC50 (Danio rerio (zebra fish)): 0.80 mg/l End point: mortality Exposure time: 96 h Method: OECD Test Guideline 203 GLP: yes The value is given in analogy to the following substances: Cobimetinib (free base) |
| | | | NOEC (Danio rerio (zebra fish)): 0.43 mg/l End point: mortality Exposure time: 96 h Method: OECD Test Guideline 203 GLP: yes The value is given in analogy to the following substances: Cobimetinib (free base) |
| | Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 3.54 mg/l End point: Immobilization Exposure time: 48 h Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes Remarks: average measured concentration The value is given in analogy to the following substances: Cobimetinib (free base) |
| | | | NOEC (Daphnia magna (Water flea)): 2.00 mg/l End point: Immobilization Exposure time: 48 h Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes Remarks: average measured concentration The value is given in analogy to the following substances: Cobimetinib (free base) |
| | Toxicity to algae/aquatic plants | : | ErC50 (Desmodesmus subspicatus (green algae)): 11.8 mg/l Exposure time: 72 h |

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| | Meth GLP: Rem The | /tical monitoring: yes od: OECD Test Guideline 201 yes arks: average measured concentration value is given in analogy to the following substances: metinib (free base) |
| | Expo Analy Meth GLP: Rem The | 50 (Desmodesmus subspicatus (green algae)): 2.25 mg/l sure time: 72 h /tical monitoring: yes od: OECD Test Guideline 201 yes arks: average measured concentration /alue is given in analogy to the following substances: metinib (free base) |
| | mg/l Expo Analy Meth GLP: Rem The v | rC (Desmodesmus subspicatus (green algae)): < 0.62 sure time: 72 h /tical monitoring: yes od: OECD Test Guideline 201 yes arks: average measured concentration /alue is given in analogy to the following substances: metinib (free base) |
| | mg/l Expo Analy Meth GLP: Rem The v | yC (Desmodesmus subspicatus (green algae)): < 0.62 sure time: 72 h /tical monitoring: yes od: OECD Test Guideline 201 yes arks: average measured concentration /alue is given in analogy to the following substances: metinib (free base) |
| Toxicity to fish (Chron toxicity) | Expo Meth GLP: The v | C (Danio rerio (zebra fish)): >= 109 mg/l sure time: 35 d od: OECD Test Guideline 210 yes value is given in analogy to the following substances: metinib (free base) |
| Toxicity to daphnia an aquatic invertebrates (Chronic toxicity) | End Expo Meth GLP: Rem The v | C (Daphnia magna (Water flea)): 0.0898 mg/l point: Immobilization sure time: 21 d od: OECD Test Guideline 211 yes arks: average measured concentration value is given in analogy to the following substances: metinib (free base) |
| Toxicity to microorgan | Expo Test |) (activated sludge): > 1,000 mg/l sure time: 3 h Type: Respiration inhibition od: OECD Test Guideline 209 |

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| | The value | nominal concentration is given in analogy to the following substances: hib (free base) |
| | Èxposure Method: (Remarks: measured The value | d sludge): 57.5 mg/l time: 28 d DECD Test Guideline 301F no adverse influence on substrate biodegradation d initial concentration is given in analogy to the following substances: hib (free base) |
| Ethenol, homopolyme | r: | |
| Toxicity to fish | : LC50: > 1 | 00 mg/l time: 96 h |
| Toxicity to fish (Chronic toxicity) | : > 1 mg/l | |
| Ecotoxicology Assess | ment | |
| Acute aquatic toxicity | | uct has no known ecotoxicological effects. |
| Chronic aquatic toxicity | : This prod | uct has no known ecotoxicological effects. |
| Toxicity Data on Soil | : Not expe | cted to adsorb on soil. |
| Other organisms releva the environment | nt to : No data a | vailable |
| Octadecanoic acid, ma | agnesium salt (2:1) | : |
| Ecotoxicology Assess | ment | |
| Acute aquatic toxicity | : This prod | uct has no known ecotoxicological effects. |
| Chronic aquatic toxicity | : This prod | uct has no known ecotoxicological effects. |
| Toxicity Data on Soil | : Not expe | cted to adsorb on soil. |
| Other organisms releva the environment | nt to : No data a | vailable |
| Titanium oxide (TiO2): | | |
| Toxicity to fish | Exposure | nephales promelas (fathead minnow)): > 1,000 mg time: 96 h e: static test |
| | 10,000 m Exposure Test Type | prinodon variegatus (sheepshead minnow)): > g/l time: 96 h e: semi-static test DECD Test Guideline 203 |

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| Toxicity to daphnia a aquatic invertebrate | | Exposure Test Type | phnia magna (Water flea)): > 1,000 mg/l time: 48 h :: static test DECD Test Guideline 202 |
| Toxicity to algae/aquatic : plants | | mg/l Exposure Test Type | eudokirchneriella subcapitata (green algae)): > 100 time: 72 h :: static test DECD Test Guideline 201 |
| | | Exposure | eletonema costatum (marine diatom)): > 10,000 mg/ time: 72 h SO 10253 |
| | | Exposure | keletonema costatum (marine diatom)): 5,600 mg/l time: 72 h SO 10253 |
| Ecotoxicology Ass | essment | | |
| Toxicity Data on So | | Not exped | ted to adsorb on soil. |
| Other organisms rel the environment | evant to : | No data a | vailable |
| Talc (Mg3H2(SiO3) Toxicity to fish | 4): | : LC50 (Danio rerio (zebra fish)): > 100,000 mg/l Exposure time: 24 h | |
| Ecotoxicology Ass | essment | | |
| Acute aquatic toxicit | | This prod | uct has no known ecotoxicological effects. |
| Chronic aquatic toxi | city : | This prod | uct has no known ecotoxicological effects. |
| Toxicity Data on So | il : | Not exped | sted to adsorb on soil. |
| Other organisms rel the environment | evant to : | No data available | |
| Persistence and de | egradability | | |
| Components: | - | | |
| Cobimetinib: | | | |
| Biodegradability | : | Concentra Theoretic Result: No Biodegrad Exposure | activated sludge ation: 60.8 mg/l al oxygen demand ot readily biodegradable. lation: 0 % time: 28 Days DECD Test Guideline 301F |

Genentech

| | C(R) Tablels | 0 (20 | ing) | |
|-----------------------------|-------------------------------|---------------------|--|---|
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| | | | The value is giv Cobimetinib (fr | ven in analogy to the following substances: ee base) |
| Titaniun Biodegra | n oxide (TiO2): adability | : | Remarks: Not a | applicable |
| Bioaccu | mulative potenti | al | | |
| Compor | nents: | | | |
| Cellulos | - | | | |
| Partition octanol/v | coefficient: n- vater | : | Remarks: No d | ata available |
| Lactose | -1-Hydrate: | | | |
| Partition octanol/v | coefficient: n- vater | : | log Pow: -5.03 | |
| Cobimet | tinib: | | | |
| Partition octanol/v | coefficient: n- vater | : | log Pow: 0.32 | |
| Polyviny | /l alcohol: | | | |
| | coefficient: n- | : | Remarks: No d | ata available |
| Magnes | ium stearate: | | | |
| - | coefficient: n- | : | 0 | Test Guideline 107 |
| Titaniun | n dioxide: | | | |
| Partition octanol/v | coefficient: n- vater | : | Remarks: No d | ata available |
| Talc: | | | | |
| Partition octanol/v | coefficient: n- vater | : | Remarks: No d | ata available |
| Mobility | in soil | | | |
| <u>Compor</u> | nents: | | | |
| Cobimet | tinib: | | | |
| | ion among nental compartme | : nts | |) Test Guideline 106 obile |
| | | | Medium: Sludg Method: OECD Remarks: imme | Test Guideline 106 |

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Other adverse effects

| Product: | | |
|---------------------------------------|---|---|
| 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 | : | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects. |
| Components: | | |
| Ethenol, homopolymer: | | |
| Adsorbed organic bound halogens (AOX) | : | Remarks: Not applicable |
| Additional ecological information | : | No data available |
| Talc (Mg3H2(SiO3)4): | | |
| Adsorbed organic bound halogens (AOX) | : | Remarks: Not applicable |
| Additional ecological information | : | No data available |

SECTION 13. DISPOSAL CONSIDERATIONS

| Disposal methods | | |
|------------------------|---|--|
| Waste from residues | : | The product should not be allowed to enter drains, water courses or the soil. 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. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. |

SECTION 14. TRANSPORT INFORMATION

International Regulations



| | ion Date: -2021 | Date of last issue: 01-22-2020 Date of first issue: 12-07-2015 |
|---|--------------------|---|
| UNRTDG | | |
| UN number | : UN 3077 | |
| Proper shipping name | N.O.S. | /IENTALLY HAZARDOUS SUBSTANCE, SOLID, |
| Class | : 9 | , , |
| Packing group | : 111 | |
| Labels | : 9 | |
| IATA-DGR | | |
| UN/ID No. | : UN 3077 | |
| Proper shipping name | | ntally hazardous substance, solid, n.o.s. ib, mixture) |
| Class | : 9 | |
| Packing group | : 111 | |
| Labels | : Miscellaneo | Dus |
| Packing instruction (cargo aircraft) | : 956 | |
| Packing instruction | : 956 | |
| (passenger aircraft) | | |
| Environmentally hazardous | : yes | |
| IMDG-Code | | |
| UN number | : UN 3077 | |
| Proper shipping name | N.O.S. | IENTALLY HAZARDOUS SUBSTANCE, SOLID, |
| Class | (Cobimetini : 9 | D, MIXIUR) |
| Packing group | : 111 | |
| Labels | : 9 | |
| EmS Code | : 5 : F-A, S-F | |
| Marine pollutant | : yes | |

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

Not applicable

Domestic regulation

| 49 | CFR | |
|------|----------|--|
| 1.15 | 1/10 /11 | |

| UN/ID/NA number : | UN 3077 |
|------------------------|---|
| Proper shipping name : | Environmentally hazardous substance, solid, n.o.s. (Cobimetinib, mixture) |
| Class : | 9 |
| Packing group : | III |
| Labels : | CLASS 9 |
| ERG Code : | 171 |
| Marine pollutant : | no |

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

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

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

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 | : | Acute toxicity (any route of exposure) Carcinogenicity Reproductive toxicity |
|----------------------|---|---|
| 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. |

Clean Air Act

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).

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

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Manager all searching D'add (Tailling and

| Massachusetts Right To Know | |
|---------------------------------|--------------|
| Cellulose | 9004-34-6 |
| Pennsylvania Right To Know | |
| Cellulose | 9004-34-6 |
| Lactose-1-Hydrate | 64044-51-5 |
| Cobimetinib | 1369665-02-0 |
| Croscarmellose sodium | 74811-65-7 |
| Maine Ohemieele of High Concern | |

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

| CO | COTELLIC(R) Tablets (20 mg) | | | | | | |
|-------------|--|------------------------------|-----------------------------------|---|-----------------------|--|--|
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| | Product does | s not contai | in any listed chem | icals | | | |
| | California Prop. 65 | | | | | | |
| | WARNING: This product can expose you to chemicals including Titanium oxide (TiO2), which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov. | | | | | | |
| | California Permissible | e Exposure | e Limits for Chem | nical Contaminants | | | |
| | Cellulose Octadecano | c acid, mad | gnesium salt (2:1) | | 9004-34-6 557-04-0 | | |
| | California Regulated | | , | | | | |
| | Talc (Mg3H2 | 2(SiO3)4) | | | 14807-96-6 | | |
| | The ingredients of thi | - | - | - | ies: | | |
| | AIIC | : | Not in compliance | e with the inventory | | | |
| | DSL | : | This product cont on the Canadian | ains the following com DSL nor NDSL. | ponents that are not | | |
| | | | Cobimetinib | | | | |
| | | | Croscarmellose s | odium | | | |
| | NZIoC | : | Not in compliance | e with the inventory | | | |
| | ENCS | : | Not in compliance | e with the inventory | | | |
| | ISHL | : | Not in compliance | e with the inventory | | | |
| | KECI | : | Not in compliance | e with the inventory | | | |
| | PICCS | : | Not in compliance | e with the inventory | | | |
| | IECSC | : | Not in compliance | e with the inventory | | | |
| | TCSI | : | Not in compliance | e with the inventory | | | |
| | TSCA | : | Product contains | substance(s) not listed | d on TSCA inventory. | | |
| | TECI | : | Not in compliance | e with the inventory | | | |

TSCA list

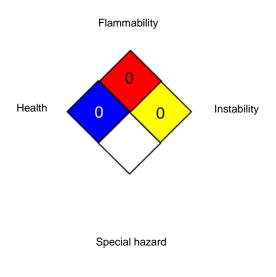
No substances are subject to a Significant New Use Rule.

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

SECTION 16. OTHER INFORMATION

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NFPA 704:



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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) |
| NIOSH REL | : | USA. NIOSH Recommended Exposure Limits |
| OSHA P0 | : | USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000 |
| 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 |
| NIOSH REL / TWA | : | Time-weighted average concentration for up to a 10-hour |
| | | workday during a 40-hour workweek |
| OSHA P0 / TWA | : | 8-hour time weighted average |
| OSHA Z-1 / TWA | : | 8-hour time weighted average |
| 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

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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) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation 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

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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.

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