SECTION 1. IDENTIFICATION

Product name : GAVRETO(R) Capsules 100 mg

Product code : RO749-9790/F02

Common name(s), synonym(s) of the substance : GAVRETO Capsules (hard) 100 mg

Manufacturer or supplier's details
Company name of supplier : Genentech, Inc.
Address : 1 DNA Way
South San Francisco, CA 94080
USA

Telephone : 001-(650) 225-1000
E-mail address : info.sds@roche.com
Emergency telephone number : US Chemtrec phone (800)-424-9300

Recommended use of the chemical and restrictions on use
Recommended use : Formulated pharmaceutical active 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)
Carcinogenicity : Category 2
Reproductive toxicity : Category 2
Specific target organ toxicity - repeated exposure : Category 2 (Cardiovascular, Skeleton, hematopoietic system)

GHS label elements
Hazard pictograms : 

Signal Word : Warning
Hazard Statements : H351 Suspected of causing cancer.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs (Cardiovascular, Skeleton, hematopoietic system) through prolonged or repeated exposure.
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.
P280 Wear protective gloves/ protective clothing/ eye protection/ 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**
None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substance / Mixture | Mixture |

**Components**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pralsetinib</td>
<td>2097132-94-8</td>
<td>21.8</td>
</tr>
<tr>
<td>Cellulose, 2-hydroxypropyl methyl ether</td>
<td>9004-65-3</td>
<td>&gt;= 20.0 - &lt;= 25.0</td>
</tr>
<tr>
<td>Carbonic acid sodium salt (1:1)</td>
<td>144-55-8</td>
<td>&gt;= 15.0 - &lt;= 20.0</td>
</tr>
<tr>
<td>1,2,3-Propanetricarboxylic acid, 2-hydroxy-</td>
<td>77-92-9</td>
<td>&gt;= 5.0 - &lt; 10.0</td>
</tr>
<tr>
<td>Cellulose</td>
<td>9004-34-6</td>
<td>&gt;= 5.0 - &lt; 10.0</td>
</tr>
<tr>
<td>Starch</td>
<td>9005-25-8</td>
<td>&gt;= 1.0 - &lt; 5.0</td>
</tr>
<tr>
<td>Octadecanoic acid, magnesium salt (2:1)</td>
<td>557-04-0</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>Titanium oxide (TiO2)</td>
<td>13463-67-7</td>
<td>&lt; 0.5</td>
</tr>
<tr>
<td>non hazardous compounds</td>
<td>Not Assigned</td>
<td>&gt; 20.0</td>
</tr>
</tbody>
</table>

### 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 advice.
If symptoms persist, call a physician.
In case of skin contact: 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 symptoms and effects, both acute and delayed: Suspected of causing cancer. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

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: In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Hydrogen fluoride Carbon oxides

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, protective equipment and emergency procedures: Avoid exposure Use personal protective equipment. Avoid dust formation. Avoid breathing dust.
SAFETY DATA SHEET

GAVRETO(R) Capsules 100 mg

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Revision Date: 08-19-2022
Date of last issue: 04-08-2022
Date of first issue: 11-30-2020

Environmental precautions:
- Prevent product from entering drains.
- Prevent further leakage or spillage if safe to do so.
- If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up:
- 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:
- 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: Stainless steel, glass, Plastic container of HDPE

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pralsetinib</td>
<td>2097132-94-8</td>
<td>IOEL</td>
<td>0.003 mg/m3</td>
<td>Roche Industrial Hygiene Com-</td>
</tr>
</tbody>
</table>
Predicted No Effect Concentration (PNEC):

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Environmental Compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pralsetinib</td>
<td>Fresh water</td>
<td>0.011 mg/l</td>
</tr>
</tbody>
</table>

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 approved filter.
                        Effective dust mask

Hand protection

Material : Nitrile rubber
Break through time : > 30 min
Glove thickness : > 0.11 mm

In case of full contact:
## GAVRETO(R) Capsules 100 mg

<table>
<thead>
<tr>
<th>Material</th>
<th>butyl-rubber</th>
</tr>
</thead>
<tbody>
<tr>
<td>Break through time</td>
<td>&gt; 480 min</td>
</tr>
<tr>
<td>Glove thickness</td>
<td>&gt; 0.4 mm</td>
</tr>
</tbody>
</table>

### Remarks

- Wear appropriate protective gloves to prevent skin contact.
- Replace torn or punctured gloves promptly.

### Eye protection

- Eye wash bottle with pure water
- Tightly fitting safety goggles

### Skin and body protection

- Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### Protective measures

- Instruction of employees mandatory

### 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>capsules</td>
</tr>
<tr>
<td>Color</td>
<td>light blue</td>
</tr>
<tr>
<td>Odor</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosion limit / Upper flammability limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit / Lower flammability limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</td>
</tr>
</tbody>
</table>
### SECTION 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### SECTION 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**
Not classified based on available information.

**Product:**

- **Acute oral toxicity:** Acute toxicity estimate: > 2,000 mg/kg<br>
  Method: Expert judgment
- **Acute dermal toxicity:** Acute toxicity estimate: > 5,000 mg/kg<br>
  Method: Calculation method

**Components:**

- **Pralsetinib:**
  - **Acute oral toxicity:** <br>
    LD50 Oral (Rat): > 300 mg/kg<br>
    GLP: yes<br>
    NOAEL (No observed adverse effect level) (Rat): 300 mg/kg<br>
    GLP: yes

- **Carbonic acid sodium salt (1:1):**
Acute oral toxicity : LD50 (Rat, male and female): > 4,000 mg/kg
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.74 mg/l
Exposure time: 4.5 h
Test atmosphere: dust/mist
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: No mortality observed at this dose.

1,2,3-Propanetricarboxylic acid, 2-hydroxy: 
Acute oral toxicity : LD50 Oral (Rat, male): 11,700 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402

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

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg

Starch:
Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Expert judgment

Acute inhalation toxicity : Acute toxicity estimate: > 30 mg/l
Test atmosphere: dust/mist
Method: Expert judgment

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Expert judgment

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

Skin corrosion/irritation
Not classified based on available information.

Components:
Carbonic acid sodium salt (1:1):
Species : Rabbit
Exposure time : 4 h
Result : No skin irritation
1,2,3-Propanetricarboxylic acid, 2-hydroxy-:
Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : No skin irritation

Titanium oxide (TiO2):
Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation
Not classified based on available information.

Components:

Carbonic acid sodium salt (1:1):
Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405
GLP : yes

1,2,3-Propanetricarboxylic acid, 2-hydroxy-:
Species : Rabbit
Result : Irritating to eyes.
Method : OECD Test Guideline 405

Titanium oxide (TiO2):
Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

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
Assessment : Does not cause skin sensitization.
Method : OECD Test Guideline 406

Germ cell mutagenicity
Not classified based on available information.
Components:

Pralsetinib:
Genotoxicity in vitro:
- Test Type: Ames test
- Method: OECD Test Guideline 471
- Result: negative
- GLP: yes

Genotoxicity in vivo:
- Test Type: Micronucleus test
- Method: OECD Test Guideline 474
- Result: negative
- GLP: yes

Carbonic acid sodium salt (1:1):
Genotoxicity in vitro:
- Test Type: Microbial mutagenesis assay (Ames test)
- Test system: Escherichia coli
- Metabolic activation: with and without metabolic activation
- Result: negative
- GLP: no

1,2,3-Propanetricarboxylic acid, 2-hydroxy-:
Genotoxicity in vitro:
- Test Type: Microbial mutagenesis assay (Ames test)
- Test system: Salmonella typhimurium
- Result: negative

Genotoxicity in vivo:
- Species: Rat (male)
- Cell type: Bone marrow
- Method: OECD Test Guideline 475
- Result: negative

Carcinogenicity
Suspected of causing cancer.

Components:

Cellulose:
Remarks:
- No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

IARC
- Group 2B: Possibly carcinogenic to humans
- Titanium oxide (TiO2) 13463-67-7

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 ingredient 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
Suspected of damaging the unborn child.
Components:

Pralsetinib:
Effects on fetal development: Test Type: reproductive and developmental toxicity study
Species: Rat, male and female
Application Route: Oral
Target Organs: Kidney
Result: Teratogenic potential.
GLP: yes

Test Type: reproductive and developmental toxicity study
Species: Rat, male and female
Application Route: Oral
Target Organs: Skeleton
Result: Teratogenic potential.
GLP: yes

Test Type: reproductive and developmental toxicity study
Species: Rat, male and female
Application Route: Oral
Target Organs: Urinary tract
Result: Teratogenic potential.
GLP: yes

Test Type: reproductive and developmental toxicity study
Species: Rat, male and female
Application Route: Oral
Target Organs: Testes
Result: Teratogenic potential.
GLP: yes

Reproductive toxicity - Assessment: Suspected human reproductive toxicant
Suspected of damaging the unborn child.

Carbonic acid sodium salt (1:1):
Effects on fetal development: Species: Rat, female
Application Route: Oral
Dose: 3.4, 15.8, 73.3, 340 mg/kg bw/day
Duration of Single Treatment: 6 - 15 d
Developmental Toxicity: NOAEL: > 340 mg/kg body weight
Method: No information available.
GLP: no

STOT-single exposure
Not classified based on available information.

Components:

Starch:
Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT-repeated exposure
May cause damage to organs (Cardiovascular, Skeleton, hematopoietic system) through prolonged or repeated exposure.

Components:

Pralsetinib:
Target Organs: Cardiovascular
Assessment: May cause damage to organs through prolonged or repeated exposure.

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

Target Organs: hematopoietic system
Assessment: May cause damage to organs through prolonged or repeated exposure.

Starch:
Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Pralsetinib:
Species: Rat
Application Route: Oral
Exposure time: 13 Weeks
GLP: yes

1,2,3-Propanetricarboxylic acid, 2-hydroxy-:
NOAEL: 4,000 mg/kg
Application Route: Oral
Exposure time: 10 days

Aspiration toxicity
Not classified based on available information.

Components:

Starch:
No data available
SAFETY DATA SHEET

GAVRETO(R) Capsules 100 mg

Version 2.1  Revision Date: 08-19-2022  Date of last issue: 04-08-2022
Date of first issue: 11-30-2020

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Pralsetinib:

Toxicity to daphnia and other aquatic invertebrates:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Method</th>
<th>GLP</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50</td>
<td>&gt; 100 mg/l</td>
<td>OECD Test Guideline 202</td>
<td>yes</td>
<td>nominal concentration</td>
</tr>
<tr>
<td>NOEC</td>
<td>100 mg/l</td>
<td>OECD Test Guideline 202</td>
<td>yes</td>
<td></td>
</tr>
</tbody>
</table>

Toxicity to algae/aquatic plants:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Method</th>
<th>GLP</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>ErC50</td>
<td>&gt; 100 mg/l</td>
<td>OECD Test Guideline 201</td>
<td>yes</td>
<td>nominal concentration</td>
</tr>
<tr>
<td>NOErC</td>
<td>100 mg/l</td>
<td>OECD Test Guideline 201</td>
<td>yes</td>
<td></td>
</tr>
</tbody>
</table>

Toxicity to fish (Chronic toxicity):

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Method</th>
<th>GLP</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOEC</td>
<td>0.110 mg/l</td>
<td>OECD Test Guideline 210</td>
<td>yes</td>
<td></td>
</tr>
</tbody>
</table>

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Method</th>
<th>GLP</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC10</td>
<td>1.02 mg/l</td>
<td>OECD Test Guideline 211</td>
<td>yes</td>
<td></td>
</tr>
</tbody>
</table>

Toxicity to microorganisms:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Method</th>
<th>GLP</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50</td>
<td>&gt; 1,000 mg/l</td>
<td>OECD Test Guideline 209</td>
<td>yes</td>
<td>nominal concentration</td>
</tr>
</tbody>
</table>
**NOEC (activated sludge):** 1,000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: nominal concentration

**NOEC (activated sludge):** 38.5 mg/l  
Exposure time: 14 d  
Method: OECD Test Guideline 301F  
GLP: yes  
Remarks: no adverse influence on substrate biodegradation

**Carbonic acid sodium salt (1:1):**

**Toxicity to fish:**  
LC50 (Lepomis macrochirus (Bluegill sunfish)): 7,100 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: flow-through test  
Analytical monitoring: yes  
GLP: yes

**Toxicity to daphnia and other aquatic invertebrates:**  
EC50 (Daphnia magna (Water flea)): 4,100 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: flow-through test  
Analytical monitoring: yes  
GLP: yes

**Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):**  
NOEC (Daphnia magna (Water flea)): > 576 mg/l  
End point: reproduction rate  
Exposure time: 21 d  
Test Type: semi-static test  
Analytical monitoring: no  
GLP: no

**Ecotoxicology Assessment**

Toxicity Data on Soil:  
Not expected to adsorb on soil.

Other organisms relevant to the environment:  
No data available

**1,2,3-Propanetricarboxylic acid, 2-hydroxy-:**

**Toxicity to fish:**  
LC50 (Leuciscus idus (Golden orfe)): 440 - 760 mg/l  
Exposure time: 96 h

**Toxicity to daphnia and other aquatic invertebrates:**  
EC50 (Daphnia magna (Water flea)): 120 mg/l  
Exposure time: 72 h

**Toxicity to algae/aquatic plants:**  
EC0 (Scenedesmus quadricauda (Green algae)): 640 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

**Cellulose:**

**Ecotoxicology Assessment**

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

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

**Starch:**

Toxicity to fish:

<table>
<thead>
<tr>
<th>LC50: &gt; 100 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time: 96 h</td>
</tr>
</tbody>
</table>

**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

**Titanium oxide (TiO2):**

Toxicity to fish:

<table>
<thead>
<tr>
<th>LC50 (Pimephales promelas (fathead minnow)): &gt; 1,000 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time: 96 h</td>
</tr>
<tr>
<td>Test Type: static test</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LC50 (Cyprinodon variegatus (sheepshead minnow)): &gt; 10,000 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time: 96 h</td>
</tr>
<tr>
<td>Test Type: semi-static test</td>
</tr>
<tr>
<td>Method: OECD Test Guideline 203</td>
</tr>
</tbody>
</table>

Toxicity to daphnia and other aquatic invertebrates:

<table>
<thead>
<tr>
<th>LC50 (Daphnia magna (Water flea)): &gt; 1,000 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time: 48 h</td>
</tr>
<tr>
<td>Test Type: static test</td>
</tr>
<tr>
<td>Method: OECD Test Guideline 202</td>
</tr>
</tbody>
</table>

Toxicity to algae/aquatic plants:

<table>
<thead>
<tr>
<th>EC50 (Pseudokirchneriella subcapitata (green algae)): &gt; 100 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time: 72 h</td>
</tr>
<tr>
<td>Test Type: static test</td>
</tr>
<tr>
<td>Method: OECD Test Guideline 201</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>EC50 (Skeletonema costatum (marine diatom)): &gt; 10,000 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time: 72 h</td>
</tr>
</tbody>
</table>
**SAFETY DATA SHEET**

**GAVRETO(R) Capsules 100 mg**

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date:</th>
<th>Date of last issue:</th>
<th>Date of first issue:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>08-19-2022</td>
<td>04-08-2022</td>
<td>11-30-2020</td>
</tr>
</tbody>
</table>

Method: ISO 10253

NOEC (Skeletonema costatum (marine diatom)): 5,600 mg/l
Exposure time: 72 h
Method: ISO 10253

### Ecotoxicology Assessment

**Toxicity Data on Soil**: Not expected to adsorb on soil.

**Other organisms relevant to the environment**: No data available

### Persistence and degradability

#### Components:

**Pralsetinib**

<table>
<thead>
<tr>
<th>Biodegradability</th>
<th>Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 301F GLP: yes</th>
</tr>
</thead>
</table>

**Physico-chemical removability**

<table>
<thead>
<tr>
<th>Method: OECD Test Guideline 301F Remarks: Not abiotically degradable</th>
</tr>
</thead>
</table>

**Carbonic acid sodium salt (1:1)**

<table>
<thead>
<tr>
<th>Biodegradability</th>
<th>Remarks: Not applicable</th>
</tr>
</thead>
</table>

**1,2,3-Propanetricarboxylic acid, 2-hydroxy-**

|-------------------|-------------------------------------------------------------------------------------------------------------------|

**Titanium oxide (TiO2)**

<table>
<thead>
<tr>
<th>Biodegradability</th>
<th>Remarks: Not applicable</th>
</tr>
</thead>
</table>

### Bioaccumulative potential

#### Components:

**Pralsetinib**

|-----------------|-------------------------------------------------------------------------------------------------------------------|
Expert judgment

Partition coefficient: n-octanol/water

<table>
<thead>
<tr>
<th>Value</th>
<th>pH</th>
<th>Method</th>
<th>GLP</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>log Pow: 3.0 (68 °F / 20 °C)</td>
<td>5</td>
<td>OECD Test Guideline 107</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>log Pow: 4.0 (68 °F / 20 °C)</td>
<td>7</td>
<td>OECD Test Guideline 107</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>log Pow: 3.9 (68 °F / 20 °C)</td>
<td>9</td>
<td>OECD Test Guideline 107</td>
<td>yes</td>
<td></td>
</tr>
</tbody>
</table>

**Carbonic acid sodium salt (1:1):**

Partition coefficient: n-octanol/water : Remarks: No data available

**1,2,3-Propanetricarboxylic acid, 2-hydroxy-:**

Bioaccumulation: Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: -1.72 (68 °F / 20 °C)

**Cellulose:**

Partition coefficient: n-octanol/water : Remarks: No data available

**Starch:**

Partition coefficient: n-octanol/water : Remarks: No data available

**Titanium oxide (TiO2):**

Partition coefficient: n-octanol/water : Remarks: No data available

**Mobility in soil**

**Components:**

Pralsetinib:

Distribution among environmental compartments: Medium: Soil
Koc: 6247 - 37105 ml/g
Method: OECD Test Guideline 106
Remarks: immobile

Medium: Sludge
Koc: 5960 - 8799 ml/g
Method: OECD Test Guideline 106
Remarks: immobile

Stability in soil:
- Soil temperature: 68 °F / 20 °C
- Dissipation time: 156 - 165 d
- Method: OECD Test Guideline 308
- GLP: yes
- Remarks: persistent
- Fresh water sediment

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.
- Harmful to aquatic life with long lasting effects.

Components:

Pralsetinib:
- Results of PBT and vPvB assessment:
  - This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

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

UNRTDG
- Not regulated as a dangerous good

IATA-DGR
SAFETY DATA SHEET

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Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

Domestic regulation

49 CFR
Not regulated as a dangerous good

Special precautions for user
Remarks: Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

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: Carcinogenicity
Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)

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
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US State Regulations

Massachusetts Right To Know
- Cellulose 9004-34-6
- Starch 9005-25-8

Pennsylvania Right To Know
- Cellulose, 2-hydroxypropyl methyl ether 9004-65-3
- Pralsetinib 2097132-94-8
- non hazardous compounds Not Assigned
- Carbonic acid sodium salt (1:1) 144-55-8
- 1,2,3-Propanetricarboxylic acid, 2-hydroxy- Cellulose 9004-34-6
- Starch 9005-25-8

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
Product does not contain any listed chemicals

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 Exposure Limits for Chemical Contaminants
- Cellulose 9004-34-6
- Starch 9005-25-8

The ingredients of this product are reported in the following inventories:
- AIIC : Not in compliance with the inventory
- DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.
  - Pralsetinib
  - non hazardous compounds
- NZIoC : Not in compliance with the inventory
- ENCS : Not in compliance with the inventory
- ISHL : Not in compliance with the inventory
- KECI : Not in compliance with the inventory
- PICCS : Not in compliance with the inventory
- IECSC : Not in compliance with the inventory
- TCSI : Not in compliance with the inventory
TSCA : Product contains substance(s) not listed on TSCA inventory.
TECI : Not in compliance 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

NFPA 704:
HMIS® IV:

Flammability
Health
0
0
0
Instability

Special hazard

HEALTH
0
FLAMMABILITY
0
PHYSICAL HAZARD
0

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. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
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

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 Sys-
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.

US / Z8 / 2104