

## Ruxolitinib, Phosphate Salt

**Cat#: orb61171 (MSDS)**

### SECTION 1. IDENTIFICATION:

Trade name: Ruxolitinib, Free Base

Product Number: orb546532

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### SECTION 2. HAZARD(S) IDENTIFICATION:

Hazard Description: Harmful

Harmful if swallowed

May be harmful if inhaled or through skin absorption

Ingestion may result in thrombocytopenia (reduced blood platelets), neutropenia (reduction of a certain type of white blood cells), anemia, bruising/unusual bleeding, dizziness, headache, fatigue, dyspnea (shortness of breath), infection involving chills, aches, fever, nausea, vomiting, weakness, painful skin rash or blisters

Prolonged exposure may result in serious damage to health

Exposure may adversely affect fetal development and may impair fertility

May be irritating to skin, eyes, mucous membranes, and upper respiratory tract

Signal Word: Warning

#### GHS Hazard Statements:

H302+312+332 - Harmful if swallowed, in contact with skin or if inhaled

#### GHS Precautionary Statements:

P2562 - Do not get in eyes, on skin or on clothing

WARNING: For Laboratory Research Use Only



**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:**

Chemical Name: ( $\beta R$ )- $\beta$ -Cyclopentyl-4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazole-1-propanenitrile

Synonyms: INCB018424, INCB18424, NCB018424, NCB18424, Jakafi

Hazardous Ingredient: Ruxolitinib, Free Base

CAS Registry Number: 941678-49-5

Molecular Weight: 306.37

Molecular Formula: C<sub>17</sub>H<sub>18</sub>N<sub>6</sub>

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**SECTION 4. FIRST-AID MEASURES:**

After Inhalation: If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration

After skin contact: flush with copious amounts of water; remove contaminated clothing and shoes; call a physician

After eye contact: check for and remove contact lenses; flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician

After swallowing: if swallowed, wash out mouth with copious amounts of water; call a physician

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**SECTION 5. FIRE-FIGHTING MEASURES:**

Suitable extinguishing agents: water spray, carbon dioxide, dry chemical powder or foam

Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

Unusual fire hazard: may emit toxic fumes under fire conditions such as carbon monoxide, etc.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES:**

Person-related safety precautions: cordon off area of spill; wear self-contained breathing apparatus, protective clothing and heavy rubber gloves

Measures for cleaning/collecting: absorb solutions with finely- powdered liquid-binding material (diatomite, universal binders); decontaminate surfaces and equipment by scrubbing with alcohol; dispose of contaminated material according to Section 13

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**SECTION 7. HANDLING AND STORAGE:**

Information for safe handling: avoid contact with skin, eyes and clothing; material may be an irritant

Storage: store solid and solutions at -20 °C

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:**

Personal protective equipment as follows:

Breathing equipment: NIOSH/MSHA-approved respirator

Protection of hands: handle with Nitrile rubber gloves with minimum thickness of 0.11 mm (4.3 mil). This recommendation should not be interpreted as offering an approval for any specific use conditions. Please review this recommendation with a safety officer to evaluate if it is appropriate for the anticipated use.

Eye protection: chemical safety goggles

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:**

Form: crystalline solid; granular or powder

Color: white to off-white

Odor: none

Melting point/Melting range: 90-100 °C

Danger of explosion: none

Solubility in / Miscibility with water: very poorly soluble in water; maximum solubility in plain water is estimated to be about 25-50 µM; buffers, serum, or other additives may increase or decrease the aqueous solubility

Solvent content:

Organic solvents: soluble in DMSO at 28 mg/mL; soluble in ethanol at 15 mg/mL with warming

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**SECTION 10. STABILITY AND REACTIVITY:**

Stability: avoid acids and bases

Thermal decomposition / conditions to be avoided: protect from light and heat

Dangerous products of decomposition: thermal decomposition may produce toxic gases such as carbon monoxide and carbon dioxide, and nitrogen oxides

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**SECTION 11. TOXICOLOGICAL INFORMATION:**

RTECS #: not available

Acute toxicity: oral toxicity (LD50): 250 mg/kg (rat) - toxicity data from the Incyte MSDS dated May 12, 2014 for Jakafi (Ruxolitinib Phosphate)

Primary irritant effect:

On the skin: may cause skin irritation

On the eye: may cause eye irritation

Inhalation: may be an irritant; may be harmful if inhaled

Ingestion: harmful if swallowed

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**SECTION 12. ECOLOGICAL INFORMATION:**

General notes: no data available

Treat as potentially toxic if released into the environment

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**SECTION 13. DISPOSAL CONSIDERATIONS:**

Dispose of in accordance with prevailing country, federal, state and local regulations

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**SECTION 14. TRANSPORT INFORMATION:**

DOT:

Proper shipping name: none

Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

IATA class:

Proper shipping name: none

Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

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**SECTION 15. REGULATORY INFORMATION:**

Code letter and hazard designation of product:

Xn: Harmful

Hazard-determining components of labeling:

EU Risk And Safety phrases:

S22: Do not breathe dust

S36/37: Wear suitable protective clothing and gloves

S45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed

R61: May cause harm to the unborn child

R62: Possible risk of impaired fertility

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