

## Safety Data Sheet



<b>1. IDENTIFICATION</b>													
<i>Product Information</i>													
Product name	BMT-371798-02												
Version	1.0, 13.10.2017												
Jurisdiction	This Safety Data Sheet was prepared in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) for the United States of America (USA) (CFR 1910.1200), European Union (EU) (EC 1272/2008) and United Nations (UN). The following countries utilize the UN GHS classification process: Mexico, Brazil, China, New Zealand, Canada, Japan, and Korea.												
Chemical Name	Trade Secret												
IUPAC name	Trade Secret												
Synonyms	BMT 371798-02												
Other information	Project Name: 06321												
Intended Uses	This material is used for Research and Development activities. This material is a chemical intermediate used in drug synthesis. This compound may have pharmacologic activity.												
<i>Company/Undertaking Identification</i>													
Address	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"><u>USA</u></td> <td style="width: 33%;"><u>Ireland</u></td> </tr> <tr> <td><b>Bristol-Myers Squibb Company</b></td> <td><b>Bristol-Myers Squibb Company</b></td> </tr> <tr> <td>P.O. Box 191</td> <td>Swords Laboratories, Watery Lane</td> </tr> <tr> <td>New Brunswick, New Jersey 08903</td> <td>Swords, Ireland</td> </tr> <tr> <td>United States of America</td> <td>MG-GBS-MSDS-Request@bms.com</td> </tr> <tr> <td>1-800-332-2056</td> <td>353-1813-9456</td> </tr> </table>	<u>USA</u>	<u>Ireland</u>	<b>Bristol-Myers Squibb Company</b>	<b>Bristol-Myers Squibb Company</b>	P.O. Box 191	Swords Laboratories, Watery Lane	New Brunswick, New Jersey 08903	Swords, Ireland	United States of America	MG-GBS-MSDS-Request@bms.com	1-800-332-2056	353-1813-9456
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Emergency Phone No.	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">USA (also Canada, Puerto Rico and the Virgin Island): 1-800-424-9300</td> <td style="width: 33%;"><u>Ireland</u>: 353-1813-9456</td> </tr> <tr> <td colspan="2">Other Countries: See "Section 16" for country-specific emergency phone numbers from CHEMTREC.</td> </tr> </table>	USA (also Canada, Puerto Rico and the Virgin Island): 1-800-424-9300	<u>Ireland</u> : 353-1813-9456	Other Countries: See "Section 16" for country-specific emergency phone numbers from CHEMTREC.									
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<b>2. HAZARDS IDENTIFICATION</b>	
<b>Classification and Labelling Common to All Jurisdictions</b>	
Classification	Serious Eye Damage/Eye Irritation - Category 1 Toxic To Reproduction - Developmental Toxicity - Category 2 Specific Target Organ Systemic Toxicity (Single Exposure) - Category 3 Specific Target Organ Systemic Toxicity (Repeated Exposure) - Category 1 Substance not fully tested.
Symbol	
Signal Word	Danger
Hazard Statements	Causes serious eye damage. Suspected of damaging the unborn child

**2. HAZARDS IDENTIFICATION**

	May cause respiratory irritation . Causes damage to organs (immune system, kidney) through prolonged or repeated exposure.
Precautionary Statements	Wear protective gloves/clothing and eye/face protection. Do not breathe dust. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Other information	May enhance the potential for hypersensitivity and dermal sensitization response to other compounds. This effect is due to the mechanism of action.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	Concentration	CAS No.	EU only		Other Registration No.
			EC No./REACH Registration No.	H-code(s)	
<i>Hazardous components</i> BMT-371798-02	100 %	Trade Secret	--	H318 H361d H335 H372	--
See section 16 for H-code text.					

**4. FIRST AID MEASURES**

Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Keep eye wide open while rinsing.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Discard contaminated clothing or wash before re-use. If exposed or concerned: Get medical attention/advice.
Inhalation	Oxygen or artificial respiration if needed. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If exposed or concerned: Get medical attention/advice.
Notes to Physician	Medical conditions aggravated include: autoimmune disorders. Material not fully tested. Refer to Section 11.

**4. FIRST AID MEASURES**

Medical Surveillance	<p>The need for a pre-placement, follow-up physical examination and history for employees with potential exposure to this compound is to be evaluated by a physician that is thoroughly knowledgeable about both the toxicity of this compound and the extent of work place exposure. Baseline testing would include: a complete blood count with differential, a blood test for kidney function. Repeat periodically depending on the potential for exposure.</p> <p>Employees who are pregnant, are breast-feeding, or who are concerned with other reproductive issues should be encouraged to consult with the occupational health physician monitoring worker's health.</p>
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**5. FIRE-FIGHTING MEASURES**

Flammable Properties	Not available
Extinguishing Media	<p>Suitable extinguishing media: Dry chemical, Water spray, Foam</p> <p>Unsuitable extinguishing media: Do NOT use water jet.</p>
Protection of Firefighters	<p>Specific hazards: Not available</p> <p>Protective equipment: Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.</p> <p>Hazardous Combustion Products: carbon oxides (COx), nitrogen oxides (NOx)</p>
Other information	Decontaminate protective clothing and equipment before reuse.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions	Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Examples include tightly fitting safety goggles, disposable lab coat of low permeability with cuffs, double gloves and shoe covers. Wear respiratory protection. Depending on the nature of the spill (quantity and extent of spill) additional protective clothing and equipment such as a self-contained breathing apparatus may be needed.
Environmental precautions	Prevent release to drains and waterways. Prevent release to the environment.
Containment Methods	Wet down any dust to prevent generation of aerosols, if appropriate. Cover with suitable material.
Cleanup Methods	Spill prevention procedures and a spill response procedure should be implemented. Contain and collect spillage and place in container for disposal according to local regulations (see Section 13). Clean spill area with a deactivating solution (if available) followed by detergent and water after spill pick-up. Handle waste materials, including gloves, protective clothing, contaminated spill cleanup material, etc., as appropriate for chemically and pharmacologically similar materials.

**7. HANDLING AND STORAGE**

Handling Precautions	Highly potent material. Avoid exposure - obtain special instructions before use. Avoid formation of dust and aerosols. Keep away from heat and sources of ignition. Prevent release to drains and waterways.
Container Requirements	Store in sturdy containers appropriate to maintain the integrity of this material for its intended use.
Storage Conditions	Store at room temperature. Protect against light. Keep away from heat, sparks and flames. Store locked up. Store in well-ventilated place. Keep container tightly closed.
Specific use(s)	Refer to Section 1

<b>8. EXPOSURE CONTROLS / PERSONAL PROTECTION</b>				
Exposure limit(s)	Company Guideline	ACGIH	Germany OEL	UK MEL
BMT-371798-02	1 - < 10 µg/m <sup>3</sup> (ECB 4 - For BMS Internal Use Only)	--	--	--
Recommended Industrial Hygiene Monitoring Methods	<p>A specific exposure sampling method is not available. Contact the Bristol-Myers Squibb AIHA accredited Industrial Hygiene Laboratory at (USA) 732-227-6338.</p> <p>General - The health hazard risk of handling this material is dependent on many factors, including physical form, % API in material being handled, duration and frequency of process task, and effectiveness of controls. If it is necessary to handle this compound outside of engineering controls, an exposure risk assessment should be conducted and procedures documented by a qualified EHS professional.</p>			
Engineering Controls and Ventilation	<p>Use process enclosures, containment technology, or other engineering controls to keep airborne levels below recommended exposure limit. When handling quantities up to 3 milligrams, a standard laboratory with general laboratory dilution ventilation (e.g. 6-12 air changes per hour) is appropriate. When handling quantities up to 1 kilogram, work in either a standard laboratory (&lt;500 g) or designated laboratory (500 g to &lt;1 kg) using a fume hood, biological safety cabinet(Class II, Type A2 with thimble connection, B1, or B2)or approved vented enclosure. HEPA filtered exhaust preferred for fume hoods containing particularly "dusty" operations. Quantities exceeding 1 kilogram should be handled in a designated laboratory or containment facility using appropriate containment technology. A laminar flow/powder containment booth or appropriate isolation technology should be considered for handling more than 1 kilogram of active compound. HEPA filtered exhaust preferred. For manufacturing and pilot plant operations, barrier/containment technology and direct coupling (totally enclosed processes that create a barrier between the equipment and the room) with use of double or split butterfly valves, hybrid unidirectional airflow/local exhaust ventilation solutions (e.g. powder containment booth) should be used. Glove bags, isolator/glove box systems are optional. HEPA filtration of exhaust from dry product handling areas is required.</p>			
Respiratory protection	<p>Use and selection of respiratory protection is based upon engineering controls in use and potential for aerosol generation. When engineering controls are not sufficient control exposure, wear an approved respirator with NIOSH Class 100 or high efficiency particulate (HEPA) filters or cartridges (EN 140/EN 136) when exposures are up to 10 times the exposure control guideline. Wear a loose-fitting (Tyvek or helmet type) HEPA powered-air purifying respirator (PAPR) (EN 12941) when exposures are 10-25 times the exposure control guideline. Wear a full facepiece negative pressure respirator with Class 100 or HEPA filters (EN 136) when exposures are 25-50 times the exposure control guideline. Wear a tight-fitting, full facepiece HEPA PAPR (EN 12942) when exposures are 50-100 times the exposure control guideline. Wear a hood-shroud HEPA PAPR (EN 12941) or full facepiece supplied air respirator (EN 139) operated in a pressure demand or other positive pressure mode when exposures are 100-1000 times the exposure control guideline.</p>			
Eye protection	<p>Safety glasses with side-shields are recommended (EN 166). Face shields or chemical safety goggles (EN 166) may be required if splash potential exists or if corrosive materials are present. Note: Choice of eye protection may be influenced by the type of respirator which is selected.</p>			
Hand protection	<p>Wear gloves at all times when handling containers, including when unpacking, inspecting or transporting within a facility. Impervious gloves are recommended. (EN 420, EN 374). Double gloving for all manufacturing personnel potentially in direct contact with the compound should be considered. If material is handled in solution, the solvent should also be considered when selecting protective clothing material.</p>			

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Skin and body protection	Wear a laboratory coat (EN 340) when handling quantities up to 500 grams. For quantities up to 1 kilogram, wear disposable laboratory coat (EN 340) or coverall of low permeability (EN 1149-1) . For quantities over 1 kilogram and manufacturing operations, wear disposable coverall of low permeability (EN 1149-1) and disposable shoe covers.
Hygiene	Wash hands and face before breaks and immediately after handling the product.
Environmental exposure controls	Prevent release to drains and waterways.

**9. PHYSICAL AND CHEMICAL PROPERTIES***General Information**Appearance*

Physical State	solid
Color	yellow to white

*Odour*

Odour	Not available
Odor Threshold	Not available

pH	Not determinable
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*Other information*

Bulk density	Not available
Chemical Name	Trade Secret
Evaporation rate	Not available
Molecular formula	Trade Secret
Hydrolysis/Photolysis	Not available
Hygroscopicity	Not available
Molecular Weight	307.0 g/mol
Log Octanol/Water Partition Coefficient [log Kow]	Not available
Surface Tension	Not available
pKa	Not available
Particle Size	Not available
Solubility, Water	Not available
Specific Gravity/ Relative density	Not available
Viscosity, dynamic	Not available
Viscosity, kinematic	Not available
% Volatile	Not available

*Thermal/Stability properties*

Autoignition temperature	Not available
Boiling Point	Not available
Thermal decomposition	Not available
Explosive Limits, LEL	Not available
Explosive limits, UEL	Not available
Explosiveness	Non-explosive based on chemical structure.
Flammability	Not available
Flash point	Not available
Melting Point	Not available
Oxidizing Potential	Non-oxidizer based on chemical structure.

**9. PHYSICAL AND CHEMICAL PROPERTIES***Vapor Properties*

Vapor Density	Not available
Vapor Pressure	Not available
Saturated Vapor Concentration	Not available

**10. STABILITY AND REACTIVITY***Stability*

Chemical Stability	Stable under normal conditions.
Conditions to avoid	Not available
Materials to avoid	Not available
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions.: carbon oxides (CO <sub>x</sub> ), nitrogen oxides (NO <sub>x</sub> )
Hazardous reactions	None known.

*Sensitivity to static discharge/Dust exp.*

Summary Statements	Although material has not been specifically tested, fine dust suspended in air in sufficient concentration and in the presence of an ignition source may pose a potential explosion hazard. Provide appropriate bonding and grounding protection to control static charge. Powder handling equipment such as dust collectors, dryers, and mills may require additional protective measures (e.g. explosion venting, inerting, etc.).
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**11. TOXICOLOGICAL INFORMATION**

Routes of Entry	Ingestion, inhalation, Eye contact, Skin contact
Eye Irritation	Causes serious eye damage. This result is from a study on a structurally similar compound.
Skin Irritation	Not available
Respiratory Irritation	May cause respiratory irritation This result is from a structurally similar compound.
Sensitization	Not available
Acute Toxicity Study	Not available
Repeated Dose Toxicity	Not available
Genetic Toxicity	<b>In vitro</b> in silico mutagenicity prediction -- A computerized structure-toxicity analysis of this chemical class predicted this material to be a mutagen.

**11. TOXICOLOGICAL INFORMATION**

Carcinogenicity	Not available		
<b>Carcinogenicity</b>	<b>ACGIH</b>	<b>IARC</b>	<b>NTP</b>
BMT-371798-02	--	--	--
Reproductive Toxicity	Not available		
Developmental Toxicity	<b>Developmental Toxicity Assessment</b> Potential developmental toxicant This effect is due to the mechanism of action.		
Human experience	Not available		
Target Organs	immune system, kidney, This result is from a study on a structurally-and/or pharmacologically-related substance.		
Symptoms	redness and swelling of eyes, pain, tissue destruction, blindness, labored respiration, noisy respiration, chest pain, breathing difficulties, shortness of breath, lung inflammation, This result is from a structurally similar compound.		
Pharmacokinetics/ Toxicokinetics	Not available		
Other Toxicity Information	Not available		
Other Information:	May enhance the potential for hypersensitivity and dermal sensitization response to other compounds. This effect is due to the mechanism of action. Some of the toxicological data presented is derived from a structurally or pharmacologically similar compound.		

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity effects</b>	Not available
<b>Mobility</b>	Not available
<b>Persistence and degradability</b>	Not available
<b>PBT and vPvB assessment</b>	Not available

**13. DISPOSAL CONSIDERATIONS**

Advice On Disposal And Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements. This information presented only applies to the material as supplied.
Other information	Disposal by incineration is recommended.

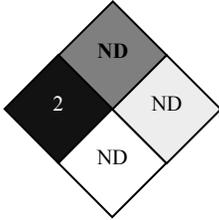
**14. TRANSPORT INFORMATION**

This material is not a dangerous good for the purpose of transportation in all modes.

**15. REGULATORY INFORMATION**

United States of America

15. REGULATORY INFORMATION	
313 Toxic Release Inventory	No components listed on the SARA 313 inventory.
TSCA Inventory	Not listed. Food, drug and cosmetic products are exempt from TSCA.
Regulatory Authorizations and Restrictions:	Not available

16. OTHER INFORMATION									
<i>Text of H-code(s) mentioned in Section 3.</i>									
H318	Causes serious eye damage.								
H335	May cause respiratory irritation								
H361d	Suspected of damaging the unborn child								
H372	Causes damage to organs through prolonged or repeated exposure.								
<i>Recommended Restrictions for Use:</i>									
Not available									
<i>SDS preparation information</i>									
Prepared by	Global Environment, Health, Safety, and Sustainability 1-732-227-7380								
Prepared on	13.10.2017 DD/MM/YYYY								
This is the first Safety Data Sheet issued for this material.									
<i>Other information</i>									
HMIS	<table border="1"> <tr> <td>Health</td> <td>2*</td> </tr> <tr> <td>Flammability</td> <td>Not Determined (ND)</td> </tr> <tr> <td>Reactivity</td> <td>Not Determined (ND)</td> </tr> <tr> <td>Personal protective equipment</td> <td>See Section 8.</td> </tr> </table>	Health	2*	Flammability	Not Determined (ND)	Reactivity	Not Determined (ND)	Personal protective equipment	See Section 8.
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NFPA	<table> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Fire</td> <td>ND</td> </tr> <tr> <td>Reactivity</td> <td>ND</td> </tr> <tr> <td>Special</td> <td>ND</td> </tr> </table> 	Health	2	Fire	ND	Reactivity	ND	Special	ND
Health	2								
Fire	ND								
Reactivity	ND								
Special	ND								

Country- Specific Emergency  
Phone Numbers

<b>CHEMTREC</b> In-Country Dial Numbers	Local # Provided in Country	Toll Free in Country*	Greeting Language
CHEMTREC South Africa*		0-800-983-611	English
CHEMTREC Argentina (Buenos Aires)	+(54)-1159839431		Latin American Spanish
CHEMTREC Brazil (Rio De Janeiro)	+(55)-2139581449		Portuguese
CHEMTREC Chile (Santiago)	+(56)-25814934		Latin American Spanish
CHEMTREC Colombia *		01800-710-2151	Latin American Spanish
CHEMTREC Mexico*		01-800-681-9531	Latin American Spanish
CHEMTREC Peru (Lima)	+(51)-17071295		Latin American Spanish
CHEMTREC China*	4001-204937		Mandarin
CHEMTREC Hong Kong (Hong Kong)*		800-968-793	Cantonese
CHEMTREC India *		000-800-100-7141	Hindi
CHEMTREC Indonesia *		001-803-017-9114	Indonesian
CHEMTREC Japan (Tokyo)	+(81)-345209637		Japanese
CHEMTREC Malaysia *		1-800-815-308	Malay
CHEMTREC Philippines *		1-800-1-116-1020	Tagalog
CHEMTREC Singapore*		800-101-2201	Mandarin
CHEMTREC Singapore	+(65)-31581349		Mandarin
CHEMTREC South Korea*		00-308-13-2549	Korean
CHEMTREC Taiwan*		00801-14-8954	Mandarin
CHEMTREC Thailand *		001-800-13-203-9987	Thai
CHEMTREC Vietnam (Ho Chi Minh City)	+(84)-838012436		Vietnamese
CHEMTREC Australia (Sydney)	+(61)-290372994		English
CHEMTREC Belgium (Brussels)	+(32)-28083237		French and Flemish
CHEMTREC Czech Republic (Prague)	+(420)-228880039		Czech
CHEMTREC France	+(33)-975181407		French
CHEMTREC Germany *		0800-181-7059	German
CHEMTREC Hungary (Budapest)	+(36)-18088425		Hungarian
CHEMTREC Italy *		800-789-767	Italian
CHEMTREC Italy (Milan)	+(39)-0245557031		Italian
CHEMTREC Netherlands	+(31)-858880596		Dutch
CHEMTREC Poland (Warsaw)	+(48)-223988029		Polish
CHEMTREC Spain*		900-868538	European Spanish
CHEMTREC Sweden (Stockholm)	+(46)-852503403		Swedish
CHEMTREC Switzerland (Zurich)	+(41)-435016715		German
CHEMTREC UK (London)	+(44)-870-8200418		English
CHEMTREC Bahrain (Bahrain)	+(973)-16199372		Arabic
CHEMTREC Israel (Tel Aviv)	+(972)-37630639		Hebrew
*Phone numbers for countries marked with an asterisk must be dialed within the country			

The information contained in this SDS is believed to be accurate and represents the best information reasonably available at the time of preparation. However, we make no warranty, express or implied, with respect to such information, and we assume no liability from its use.