

Safety Data Sheet

according to Regulation (EU) 2020/878 Issue date: 1/7/2021 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

Name : tert-butyl (5-bromo-3-(3-(4-(((tert-butoxycarbonyl)(methyl)amino)methyl)phenyl)isoxazol-5-

yl)pyrazin-2-yl)(tert- butoxycarbonyl)carbamate

CAS-No. : 1402390-42-4 Formula : $C_{30}H_{38}BrN_5O_7$

Synonyms : MSC2621052, Compound E

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Industrial use

Industrial/Professional use spec : For professional use only

Use of the substance/mixture : Intermediates

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

SK Biotek Ireland, Ltd. Watery Lane, Swords Dublin - Ireland T +353 1813 9456

SDS-Ireland@SK.com - https://skbiotek.ie/

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

PBT: not yet assessed vPvB: not yet assessed

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SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	Conc.	Classification according to Regulation (EC) No. 1272/2008 [CLP]
tert-butyl (5-bromo-3-(3-(4-(((tert-butoxycarbonyl)(methyl)amino)methyl)phenyl)isoxazol -5-yl)pyrazin-2-yl)(tert- butoxycarbonyl)carbamate	(CAS-No.) 1402390-42-4	> 99	Not classified

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory

symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Wash skin thoroughly with mild soap and water. Get medical attention if symptoms occur.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Get medical attention if symptoms occur.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse

mouth. In case of doubt or persistent symptoms, consult always a physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Not expected to present a significant hazard under anticipated conditions of normal use.

Dust of the product, if present, may cause respiratory irritation after an excessive inhalation

exposure.

Symptoms/effects after skin contact : Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Symptoms/effects after eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of

normal use. Dust from the product, if present, may cause a mechanical eye irritation,

redness and lacrimation.

Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, CO2, or water spray or regular foam. Use extinguishing agent suitable for

surrounding fire.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Burning produces irritating, toxic and noxious fumes. Do not breathe fumes from fires or

vapours from decomposition.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Thermal decomposition generates : Carbon dioxide. Carbon

monoxide. Nitrogen oxides.

5.3. Advice for firefighters

Firefighting instructions : Move containers from fire area if it can be done without personal risk. Exercise caution

when fighting any chemical fire. Fight fire with normal precautions from a reasonable

distance. Evacuate the danger area.

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Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Collect firefighting water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Prevent from entering sewers, basements and workpits,

or any place where its accumulation can be dangerous.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Do not get in eyes, on skin, or on

clothing. Do not touch or walk on the spilled product. No action shall be taken without appropriate training or involving any personal risk. Avoid creating or spreading dust.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area. Avoid creating or spreading dust. Avoid breathing dust.

6.2. Environmental precautions

Do not allow product to spread into the environment. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Minimise generation of dust. Ventilate spillage area.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Provide

adequate ventilation to minimize dust and/or vapour concentrations. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Use

personal protective equipment as required. Avoid contact with skin and eyes.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink

or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work

clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from food, drink and animal feedingstuffs. Store in a well-ventilated place. Store

in a dry place. Store in original container.

Incompatible products : Oxidizing agent. Strong bases. Protect from moisture.

Incompatible materials : Heat sources. Light sources.

Storage temperature : room temperature Packaging materials : Aluminium.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

Control banding

: SK Biotek Exposure Control Band (Band 4) = 1-10 ug/m3

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Use engineering controls to keep exposures below the OEL or DNEL. Provide local exhaust ventilation.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

In case of dust production: protective goggles

8.2.2.2. Skin protection

Skin and body protection:

Skin protection appropriate to the conditions of use should be provided

Hand protection:

Chemical resistant gloves (according to European standard EN 374 or equivalent). Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Other skin protection

Materials for protective clothing:

PPE compliant to the recommended EN/ISO standards should be selected.

8.2.2.3. Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: SolidAppearance: Powder.Molecular mass: 660.56 g/molColour: Yellow.

Odour No data available Odour threshold No data available No data available рΗ Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : Not applicable Boiling point : Not applicable Flash point : Not applicable : Not applicable Auto-ignition temperature Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapour pressure : Not applicable Relative vapour density at 20 °C : Not applicable Relative density : No data available : No data available Solubility Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : Not applicable Viscosity, dynamic : Not applicable Explosive properties : No data available Oxidising properties : No data available

9.2. Other information

Explosive limits

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerisation: Will not occur.

: Not applicable

10.4. Conditions to avoid

Overheating. Moisture.

10.5. Incompatible materials

Oxidizing agent. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

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Acute toxicity (dermal) Acute toxicity (inhalation)	Not classified (Based on available data, the classification criteria are not met)Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	 Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

tert-butyl (5-bromo-3-(3-(4-(((tert-butoxycarbonyl)(methyl)amino)methyl)phenyl)isoxazol-5-yl)pyrazin-2-yl)(tert-butoxycarbonyl)carbamate (1402390-42-4)	
N.P. 14 12 C	N. C. 11

Viscosity, kinematic Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

Not rapidly degradable

: Not classified (Lack of data)

: Not classified (Lack of data)

12.2. Persistence and degradability

tert-butyl (5-bromo-3-(3-(4-(((tert-butoxycarbonyl)(methyl)amino)methyl)phenyl)isoxazol-5-yl)pyrazin-2-yl)(tert-butoxycarbonyl)carbamate (1402390-42-4)	
Persistence and degradability	Biodegradability in water: no data available.

12.3. Bioaccumulative potential

tert-butyl (5-bromo-3-(3-(4-(((tert-butoxycarbonyl)(methyl)amino)methyl)phenyl)isoxazol-5-yl)pyrazin-2-yl)(tert-butoxycarbonyl)carbamate (1402390-42-4)	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

tert-butyl (5-bromo-3-(3-(4-(((tert-butoxycarbonyl)(methyl)amino)methyl)phenyl)isoxazol-5-yl)pyrazin-2-yl)(tert-butoxycarbonyl)carbamate (1402390-42-4)	
Ecology - soil	Not established.

12.5. Results of PBT and vPvB assessment

tert-butyl (5-bromo-3-(3-(4-(((tert-butoxycarbonyl)(methyl)amino)methyl)phenyl)isoxazol-5-yl)pyrazin-2-yl)(tert-butoxycarbonyl)carbamate (1402390-42-4)	
	PBT: not yet assessed
	vPvB: not vet assessed

12.6. Other adverse effects

Other adverse effects : No other effects known.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions. Disposal must be carried out using appropriate EWC code.

Product/Packaging disposal recommendations

: Completely empty the packaging prior to decontamination. Dispose in a safe manner in accordance with local/national regulations. Do not dispose of the packaging without first carrying out the necessary cleaning.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
4.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippir	ng name	1		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard	class(es)	,		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental ha	zards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

tert-butyl (5-bromo-3-(3-(4-(((tert-butoxycarbonyl)(methyl)amino)methyl)phenyl)isoxazol-5-yl)pyrazin-2-yl)(tert- butoxycarbonyl)carbamate is not on the REACH Candidate List

tert-butyl (5-bromo-3-(3-(4-(((tert-butoxycarbonyl)(methyl)amino)methyl)phenyl)isoxazol-5-yl)pyrazin-2-yl)(tert- butoxycarbonyl)carbamate is not on the REACH Annex XIV List

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tert-butyl (5-bromo-3-(3-(4-(((tert-butoxycarbonyl)(methyl)amino)methyl)phenyl)isoxazol-5-yl)pyrazin-2-yl)(tert- butoxycarbonyl)carbamate is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

tert-butyl (5-bromo-3-(3-(4-(((tert-butoxycarbonyl)(methyl)amino)methyl)phenyl)isoxazol-5-yl)pyrazin-2-yl)(tert- butoxycarbonyl)carbamate is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BLV	Biological limit value	
CAS-No.	Chemical Abstract Service number	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
EC-No.	European Community number	
EN	European Standard	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	
WGK	Water Hazard Class	

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Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16

December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Quantitative structure-activity relationship (QSAR).

Training advice : Training staff on good practice.

Safety Data Sheet (SDS), EU_orange

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.