

**Material Safety Data Sheet**

according to ANSI Z400.1-2004

**(-)-Flubatine Precursor**

Print date: 14.06.2012

Product code: 3353

Page 1 of 4

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

(-)-Flubatine Precursor

**Further trade names**

5-((1R, 5S, 6S)-8-tert-butoxycarbonyl)-8-azabicyclo[3.2.1]octan-6-yl)-N,N,N-trimethylpyridin-2-aminium iodide

**Synonyms:**

ABX-075; (-)-Flubatine precursor; (-)-NCFHEB precursor; (-)-5-(8-tert-butoxycarbonyl)-8-azabicyclo[3.2.1]octan-6-yl)-N,N,N-trimethylpyridin-2-aminium iodide

**Chemical characterization ( substance )**

5-((1R, 5S, 6S)-8-tert-butoxycarbonyl)-8-azabicyclo[3.2.1]octan-6-yl)-N,N,N-trimethylpyridin-2-aminium iodide

**Details of the supplier of the safety data sheet**

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**Emergency telephone:** +49 3528 4041 60**SECTION 2: Hazards identification****Route(s) of Entry****Signs and Symptoms of Exposure**

Carcinogenicity (NTP):	No information available.
Carcinogenicity (IARC):	No information available.
Carcinogenicity (OSHA):	No information available.

**Other hazards**

Warning - substance not yet tested completely.

**SECTION 3: Composition/information on ingredients****Substances**

Sum formula:	C <sub>20</sub> H <sub>32</sub> N <sub>3</sub> O <sub>2</sub>
Molecular weight:	473.39

**SECTION 4: First aid measures****Description of first aid measures**

**Material Safety Data Sheet**

according to ANSI Z400.1-2004

**(-)-Flubatine Precursor**

Print date: 14.06.2012

Product code: 3353

Page 2 of 4

**After inhalation**

Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with: Water. Change contaminated clothing.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

**After ingestion**

Rinse mouth immediately and drink large quantities of water. Medical treatment necessary.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**Water spray. Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>).**Special hazards arising from the substance or mixture**Can be released in case of fire: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>).**Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment. Provide adequate ventilation. Avoid generation of dust.

**Environmental precautions**

Do not empty into drains or the aquatic environment.

**Methods and material for containment and cleaning up**

Collect mechanically. Treat the assimilated material according to the section on waste disposal.

**SECTION 7: Handling and storage****Precautions for safe handling****Advice on safe handling**

Do not breathe dust. In case of open handling equipment with built-in suction must be used.

**Further information on handling**

Do not eat, drink, smoke or sneeze at the workplace.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container dry. Keep container tightly closed.

**Further information on storage conditions**

storage temperature:

of °C: -15

up to °C: -25

Protect against: Light.

Store under (Gas): argon. Nitrogen.

**SECTION 8: Exposure controls/personal protection**

**Material Safety Data Sheet**

according to ANSI Z400.1-2004

**(-)-Flubatine Precursor**

Print date: 14.06.2012

Product code: 3353

Page 3 of 4

**Control parameters****Exposure controls****Protective and hygiene measures**

Change contaminated clothing. Wash hands before breaks and at the end of work. When using do not eat or drink. Protect skin by using skin protective cream.

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

**Hand protection**

Tested protective gloves are to be worn: Single-use gloves. NBR (Nitrile rubber).

**Eye protection**

Eye protection: Tightly sealed safety glasses.

**Skin protection**

Skin protection: Lab apron. Chemical resistant safety shoes.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

Form: solid  
Color: white, light yellow

**Test method****Changes in the physical state**

Solubility in other solvents: chloroform, Methanol., dimethylsulphoxide (DMSO).

**SECTION 10: Stability and reactivity**

Stability: Stable  
Possibility of Hazardous Reactions: Will not occur

**Conditions to avoid**

Light.

**Hazardous decomposition products**

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>).

**SECTION 11: Toxicological information****Information on toxicological effects****Carcinogenic/mutagenic/toxic effects for reproduction**

No information available.

**Additional information on tests**

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

**Further information**

Toxicological data are not available.

**SECTION 12: Ecological information****Further information**

Do not empty into drains or the aquatic environment. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

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Page 4 of 4

**SECTION 13: Disposal considerations****Waste treatment methods****Advice on disposal**

Do not empty into drains or the aquatic environment. Waste disposal according to official state regulations.

**Contaminated packaging**

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

**SECTION 14: Transport information****US DOT 49 CFR 172.101****Proper shipping name**

Not a hazardous material with respect to transportation regulations.

**Other applicable information**

Not a hazardous material with respect to these transportation regulations.

**SECTION 15: Regulatory information****U.S. Regulations****SECTION 16: Other information****Hazardous Materials Information Label (HMIS)**

Health:	1
Flammability:	1
Physical Hazard:	1
Personal Protection:	C

**NFPA Hazard Ratings**

Health:	1
Flammability:	1
Reactivity:	1
Unique Hazard:	

