

# Safety Data Sheet

according to UK REACH Regulation

## (-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)nortropane

Revision date: 23.05.2022

Product code: 4020

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

#### 1.1. Product identifier

(-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)nortropane

#### Further trade names

8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-fluorophenyl), methyl ester, (1R,2S,3S,5S)-

#### Synonyms:

nor- $\beta$ -CFT; nor-2-CFT

CAS No: 127648-30-0

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

##### Use of the substance/mixture

Precursor for [11C]beta-CFT

#### 1.3. Details of the supplier of the safety data sheet

|                 |   |                               |
|-----------------|---|-------------------------------|
| Company name:   | ABX advanced biochemical compounds        |                               |
|                 | Biomedizinische Forschungsreagenzien GmbH |                               |
| Street:         | Heinrich-Gläser-Straße 10-14              |                               |
| Place:          | 01454 Radeberg                            |                               |
| Telephone:      | +49 3528 4041 60                          | Telefax: +49 3528 4041 65     |
| e-mail:         | info@abx.de                               |                               |
| Contact person: | Dr. Christoph Meyer                       | Telephone: +49 3528 4041 8732 |
| e-mail:         | meyer@abx.de                              |                               |
| Internet:       | http://www.abx.de                         |                               |

#### 1.4. Emergency telephone number:

+49 3528 4041 60

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GB CLP Regulation

Acute Tox. 4; H302

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### GB CLP Regulation

##### Hazard components for labelling

(-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)nortropane

Signal word: Warning

##### Pictograms:



##### Hazard statements

H302 Harmful if swallowed.

##### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

### SECTION 3: Composition/information on ingredients

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**3.1. Substances****Chemical characterization**

8-Azabicyclo[3.2.1]octane-2-carboxylic acid, 3-(4-fluorophenyl), methyl ester, (1R,2S,3S,5S)-

Sum formula: C<sub>15</sub>H<sub>18</sub>FNO<sub>2</sub>

Molecular weight: 263.31

**Hazardous components**

| CAS No      | Chemical name   | Quantity     |
|-------------|---|--------------|
|             | EC No   |              |
|             | Index No  |              |
|             | REACH No  |              |
|             | Classification (GB CLP Regulation)                        |              |
| 127648-30-0 | (-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)nortropane | 95 - < 100 % |
|             | Acute Tox. 4; H302  |              |

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

| CAS No      | EC No | Chemical name   | Quantity     |
|-------------|-------|---|--------------|
|             |       | Specific Conc. Limits, M-factors and ATE                  |              |
| 127648-30-0 |       | (-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)nortropane | 95 - < 100 % |
|             |       | oral: LD50 = 980 mg/kg                                    |              |

**SECTION 4: First aid measures****4.1. Description of first aid measures****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**

If swallowed, immediately drink: Water. Call a physician immediately.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Co-ordinate fire-fighting measures to the fire surroundings. Suitable extinguishing media: Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Atomized water.**5.3. Advice for firefighters**

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

**Additional information**

Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

**SECTION 6: Accidental release measures****6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****Other information**

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Do not breathe dust. Conditions to avoid: skin contact. Eye contact. Wear personal protection equipment.  
When using do not eat, drink, smoke, sniff.

##### Advice on general occupational hygiene

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

#### 7.2. 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

Recommended storage temperature:

of °C: 2

up to °C: 8

Protect against: Light.

Store under (Gas): argon. Nitrogen.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Additional advice on limit values

To date, no national critical limit values exist.

#### 8.2. Exposure controls

##### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state: solid  
Colour: colourless, light yellow

##### Changes in the physical state

Melting point/freezing point: 114 - 120 °C

##### Solubility in other solvents

Chloroform. dimethylsulphoxide (DMSO). Dimethylformamide. Methanol. Acetone. ACN

### SECTION 10: Stability and reactivity

#### 10.4. Conditions to avoid

Light.

#### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>), Fluorines-carbon-hydrogens.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in GB CLP Regulation

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**Acute toxicity**

| CAS No      | Chemical name   |               |         |        |        |  |
|-------------|---|---------------|---------|--------|--------|--|
|             | Exposure route  | Dose          | Species | Source | Method |  |
| 127648-30-0 | (-)-2-beta-Carbomethoxy-3-beta-(4-fluorophenyl)nortropane |               |         |        |        |  |
|             | oral  | LD50<br>mg/kg | 980     | Rat    |        |  |

**SECTION 12: Ecological information****12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of UK REACH.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

**List of Wastes Code - residues/unused products**

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

**List of Wastes Code - used product**

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Non-contaminated packages may be recycled.

**SECTION 14: Transport information****Other applicable information**

Not a hazardous material with respect to these transportation regulations.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water hazard class (D): 3 - highly hazardous to water

**SECTION 16: Other information**

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#### **Relevant H and EUH statements (number and full text)**

H302

Harmful if swallowed.