

Material Safety Data Sheet

MSDS created: 20-3-2013



1 - Identification of substance and manufacturer

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Axon catalogue ID 1081 | CAS number 691846-63-6 | Manufacturer's name Axon Medchem BV | Emergency Telephone number +31 (0)50 311 8007 |
| Product name GMC 3-15 | Batch no. 2 | Street address Biotech Center UMCG, Hanzeplein 1 | Manufacturer's fax number +31 (0)50 3600390 |
| IUPAC name 2-Methyl-biphenyl-4,4'-dicarboxylic acid 4-amide 4'-[[4-methoxy-3-(4-methyl-piperazin-1-yl)-phenyl]-amide] | Application 5-HT1B/1D antagonist | Postal Code 9713 GZ | City Groningen |
| | | Province Groningen | Country of origin The Netherlands |
| | | | Manufacturer's email address info@axonmedchem.com |
| | | | Manufacturer's website http://www.axonmedchem.com |

2 - Information on ingredients

| | | | |
|-----------------------------------------|----------------------------------|-------------------------------|-------------------------------------------------|
| Hazardous ingredient GMC 3-15 | CAS number 691846-63-6 | Concentration 99.4% | LD-50 of ingredient No data available |
|-----------------------------------------|----------------------------------|-------------------------------|-------------------------------------------------|

3 - Hazards identification

| | |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Route of entry Eye contact, Inhalation, Digestion | Potential health effects May be harmful by inhalation, ingestion or eye and/or skin absorption. May cause irritation to eye, mucous membranes, upper respiratory system, and/or skin. The toxicological properties of this compound have not been fully tested. For research purposes only. |
| Symptoms of Exposure No data available | |

4 - First Aid Measures

| | | | |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Skin contact Wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing. | Eye contact Rinse with copious amounts of water for at least 15 minutes. | Inhalation Transfer victim to an un-effected area and monitor breathing. If breathing becomes difficult administer oxygen. If breathing stops give artificial respiration. | Ingestion Rinse mouth out with copious amounts of water, contact a physician. |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|

5 - Fire Fighting Measures

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire fighting instructions Use extinguishing media appropriate to the surrounding fire conditions. Wear protective clothing to prevent contact with skin, eyes, and respiratory system. | Flammable No data available | Flashpoint (°C) No data available | Hazardous combustion products May emit toxic gasses like carbon monoxide (CO), carbon dioxide (CO ₂), hydrochloric acid (HCl), nitrogen oxide upon thermal decomposition. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6 - Accidental Release Measures

Leak and spill procedures

Wear appropriate protective clothing. Vacuum or sweep up dry material and dispose in an appropriate container as described under Disposal Conditions. Avoid raising dust. Absorb solutions with finely-powdered liquid-binding material. After removal, ventilate and decontaminate surfaces and equipment with alcohol. Dispose of contaminated materials according to section 13.

7 - Handling and Storage

Handling procedures and equipment

Avoid inhalation, contact with eyes, skin and clothing. Wear appropriate protective clothing. Avoid repeated and/or prolonged exposure. Use in a chemical fume hood, with an independent air supply.

Storage requirements

Store in a properly sealed container under the storage conditions indicated on the label.

8 - Exposure Control / Personal Protection

| | | | |
|---------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------|
| Exposure limits No data available | Protection of hands/skin Chemical resistant gloves and lab coat | Protection of eyes Appropriate safety glasses | Protection of respiratory system Handle in fume hood. Prevent inhalation |
|---------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------|

9 - Physical and chemical properties

| | | | |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------|-----------------------------------------|
| Batch molecular formula C ₂₇ H ₃₀ N ₄ O ₃ ·1H ₂ O | Appearance Off-white solid | Chemical purity 99.4% | Solubility in water (mg/mL) 0 |
| Batch MW 476.56 | Melting point NF | Optical purity (ee) N.A. | |

10 - Stability and reactivity

| | | |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Stability Stable under normal handling conditions. | Reactivity May emit toxic gasses like carbon monoxide (CO), carbon dioxide (CO ₂), hydrochloric acid (HCl), nitrogen oxide upon thermal decomposition. | Conditions and materials to avoid Protect from light and heat. Avoid strong oxidizing agents. |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|

11 - Toxicological information

| | | | |
|--------------------------------------|---------------------------------------------|------------------------------------------|--------------------------------------------|
| Toxicity No data available | Carcinogenicity No data available | Mutagenicity No data available | Teratogenicity No data available |
|--------------------------------------|---------------------------------------------|------------------------------------------|--------------------------------------------|

12 - Ecological information

Treat as potentially toxic. Runoff from fire control or dilution with water may cause pollution.

13 - Disposal considerations

Treat as potentially toxic. Dispose in accordance with local, state, and federal regulations.

14 - Transport Information

| | | | |
|----------------------------------------------------|----------------------------------------|--------------------------------------------|-------------------------------------------------------|
| (US) DOT shipping name No data available | IATA class No data available | Applicable HS class 2942.00.0000 | Transportation (Land/Sea/Air) Non-hazardous |
|----------------------------------------------------|----------------------------------------|--------------------------------------------|-------------------------------------------------------|

15 - Regulatory Information

| | |
|-----------------------------------------|----------------------------------|
| Hazardous ingredient GMC 3-15 | CAS number 691846-63-6 |
|-----------------------------------------|----------------------------------|

European risk and safety phrases

R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed

R48: Danger of serious damage to health by prolonged exposure

S22 - Do not breathe dust

S24/S25 - Avoid any inhalation, contact with skin and eyes.

S36/S37/S39 - Wear suitable protective clothing, gloves and eye/face protection

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

US EPA SARA Title III

Sec.302 (EHS) - No

Sec.302 (EHS) - No

Sec.313 (TRI) - No

Sec.110 - No

US EPA CAA, CWA, TSCA

EPA CAA - No

EPA CWA NPDES - No

EPA TSCA - No

CA PROP 65 - No

16 - Other information

The above information is believed to be accurate and represents the best information currently available to us, but does not purport to be complete.

The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

For research use only by trained personnel.

CAUTION: SUBSTANCE NOT FULLY TESTED