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MATERIAL SAFETY DATA SHEET

5-[[4-[(3,4-Dihydro-6-hydroxy-2,5,7,8-tetramethyl-2*H*-1-benzopyran-2-yl)methoxy]phenyl]methyl]-2,4-thiazolidinedione

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Troglitazone Date: 17th April 2015 Version: Discofinechem2

Company: Discovery Fine Chemicals Ltd
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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Hazard Statements- None
Precautionary Statements
P261 Avoid breathing dust
P281 Use personal protective equipment as required.
R Phrases: None
S Phrases:
S.22 Do not breathe dust
S.24/25 Avoid contact with skin and eyes
The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product Name: Troglitazone
Synonyms: Rezulin
Formula: C24H27NO5S Molecular Weight: 441.54
CAS Number: 97322-87-7

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice - Consult a doctor and show this safety data sheet.
If inhaled - Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
In case of skin contact - Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
In case of eye contact - Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
If swallowed - Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.
4.2 Most important symptoms and effects, both acute and delayed - To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
4.3 Indication of immediate medical attention and special treatment needed - Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media - Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2 Special hazards arising from the substance or mixture - In combustion, may emit toxic fumes.

5.3 Precautions for fire-fighters - Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

6. ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

6.2 Environmental precautions - Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

6.4 Reference to other sections - For required PPE see section 8. For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities.

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Recommended storage temperature: Store at -20°C

7.3 Specific end uses - Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters - Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls - Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

Personal protective equipment

Eye/face protection - Use appropriate safety glasses.

Skin protection - Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

Body protection - Wear appropriate protective clothing.

Respiratory protection - If risk assessment indicates necessary, use a suitable respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: solid, Colour: off white
b) Odour - no data available
c) Odour Threshold - no data available
d) pH - no data available
e) Melting point/freezing point - no data available
f) Initial boiling point and boiling range - no data available
g) Flash point - no data available
h) Evaporation rate - no data available
i) Flammability (solid, gas) - no data available
j) Upper/lower flammability or explosive limits - no data available
k) Vapour pressure - no data available
l) Vapour density - no data available
m) Relative density - no data available
n) Solubility - Soluble to 100 mM in DMSO and to 10 mM in ethanol
o) Partition coefficient: noctanol/water - no data available
p) Autoignition temperature - no data available
q) Decomposition temperature - no data available
r) Viscosity - no data available
s) Explosive properties - no data available
t) Oxidizing properties - no data available

9.2 Other safety information - no data available

10. STABILITY AND REACTIVITY
10.1 Reactivity - Stable under recommended transport or storage conditions.
10.2 Chemical stability - Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions - Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
10.4 Conditions to avoid - Heat, moisture.
10.5 Incompatible materials - Strong acids/alkalis, strong oxidising/reducing agents.
10.6 Hazardous decomposition products - In combustion may emit toxic fumes. No known decomposition information.
11. TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects
Acute Toxicity
ORL-RAT LD50: >5gm/kg; IPR-RAT LD50: >4gm/kg; IPR-MUS LD50: >5gm/kg; IVN-MUS LD50: 42mg/kg; ORL-MKY LD50: >2gm/kg
Skin corrosion/irritation - Classification criteria are not met based on available data
Serious eye damage/irritation - Classification criteria are not met based on available data
Respiratory or skin sensitization - Classification criteria are not met based on available data
Germ cell mutagenicity - Classification criteria are not met based on available data
Carcinogenicity - Classification criteria are not met based on available data
Reproductive toxicity - Classification criteria are not met based on available data
Specific target organ toxicity - single exposure - Classification criteria are not met based on available data
Specific target organ toxicity - repeated exposure - Classification criteria are not met based on available data
Aspiration hazard - Classification criteria are not met based on available data
Symptoms / Routes of exposure
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.
Ingestion: There may be irritation of the throat.
Skin: There may be mild irritation at the site of contact.
Eyes: There may be irritation and redness.
Delayed / Immediate Effects: No known symptoms.
Additional Information
RTECS No: XJ5813130
Exposure may cause irritation to eyes, mucous membranes, upper respiratory tract and skin. Exposure may also cause the following: tumors, jaundice, effect on inflammation or mediation of inflammation, changes in liver weight, changes in heart weight, changes in testicular weight, changes in serum composition, decreased motility or constipation, respiratory depression, death from multiple dose, diarrhea, nausea or vomiting, hepatitis, effect on mitochondrial fu. To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
12. ECOLOGICAL INFORMATION
12.1 Toxicity - No data available
12.2 Persistence and degradability - No data available
12.3 Bioaccumlative potential - No data available
12.4 Mobility in soil - No data available
12.5 Results of PBT and vPvB assessment - No data available
12.6 Other adverse effects - May be harmful to the aquatic environment.
13. DISPOSAL CONSIDERATIONS
13.1 Waste treatment methods
Product - Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with National legislation.
Contaminated packaging - Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with National legislation.
14. TRANSPORT INFORMATION
Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID and IATA.
14.1 UN-Number - Does not meet the criteria for classification as hazardous for transport.
14.2 UN proper shipping name - Does not meet the criteria for classification as hazardous for transport.
14.3 Transport hazard class(es) - Does not meet the criteria for classification as hazardous for transport.
14.4 Packaging group - Does not meet the criteria for classification as hazardous for transport.
14.5 Environmental hazards
This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.
14.6 Special precautions for users - No data available
15. REGULATORY INFORMATION
This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.
15.1 Safety, health and environmental regulations specific for the substance or mixture - No data available
15.2 Chemical safety assessment - A Chemical Safety Assessment has not been made for this product.

16. OTHER INFORMATION

Further Information

Text of H-code(s) and R-phrase(s) mentioned in Section 2

Does not apply

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product.

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