

A CENTRAL GLASS CO., LTD. COMPANY ETHYL 5-AMINO-1-(4-FLUOROPHENYL)-1H-PYRAZOLE-4-CARBOXYLATE

Page: 1

Compilation date: 20/03/02

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Revision No: 2

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

1.1. Product identifier

 Product name:
 ETHYL 5-AMINO-1-(4-FLUOROPHENYL)-1H-PYRAZOLE-4-CARBOXYLATE

 CAS number:
 138907-68-3

 Product code:
 PC0837

 Synonyms:
 5-AMINO-4-(ETHOXYCARBONYL)-1-(4-FLUOROPHENYL)-1H-PYRAZOLE

 1-[5-AMINO-4-(ETHOXYCARBONYL)-1H-PYRAZOL-1-YL]-4-FLUOROBENZENE

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

1.3. Details of the supplier of the safety data sheet

Company name: Apollo Scientific Ltd

| | Units 3 & 4 |
|--------|--|
| | Parkway |
| | Denton |
| | Manchester |
| | M34 3SG |
| | UK |
| Tel: | 0161 337 9971 |
| Fax: | 0161 336 6932 |
| Email: | david.tideswell@apolloscientific.co.uk |

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

| Classification under CHIP: | Xn: R22; Xi: R36/37/38 |
|------------------------------|--|
| Classification under CLP: | Acute Tox. 4: H302; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315 |
| t important adverse effects: | Harmful if swallowed. Irritating to eyes, respiratory system and skin. |

2.2. Label elements

Most

Label elements under CLP:

Hazard statements: H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark

ETHYL 5-AMINO-1-(4-FLUOROPHENYL)-1H-PYRAZOLE-4-CARBOXYLATE

Precautionary statements: P271: Use only outdoors or in a well-ventilated area.

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

Label elements under CHIP:

Hazard symbols: Harmful.



| Risk phrases: | R22: Harmful if swallowed. |
|-----------------|---|
| | R36/37/38: Irritating to eyes, respiratory system and skin. |
| Safety phrases: | S22: Do not breathe dust. |
| | S26: In case of contact with eyes, rinse immediately with plenty of water and seek |
| | medical advice. |
| | S28: After contact with skin, wash immediately with plenty of water. |
| | S36/37/39: Wear suitable protective clothing, gloves and eye / face protection. |
| | S45: In case of accident or if you feel unwell, seek medical advice immediately (show |
| | the label where possible). |
| | |

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: ETHYL 5-AMINO-1-(4-FLUOROPHENYL)-1H-PYRAZOLE-4-CARBOXYLATE

Section 4: First aid measures

4.1. Description of first aid measures

| Skin contact: | Remove all contaminated clothes and footwear immediately unless stuck to skin. | |
|---------------|---|--|
| | Drench the affected skin with running water for 10 minutes or longer if substance is still | |
| | on skin. Consult a doctor. | |
| Eye contact: | Bathe the eye with running water for 15 minutes. Consult a doctor. | |
| Ingestion: | Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water | |
| | to drink immediately. Consult a doctor. | |
| Inhalation: | Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a | |
| | doctor. | |

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Page: 2

ETHYL 5-AMINO-1-(4-FLUOROPHENYL)-1H-PYRAZOLE-4-CARBOXYLATE

| | | Page: | 3 |
|----------------------------------|--|-------|---|
| Ingestion: | There may be soreness and redness of the mouth and throat. Nausea and stomach | | |
| | pain may occur. There may be vomiting. | | |
| Inhalation: | There may be irritation of the throat with a feeling of tightness in the chest. | | |
| 4.3. Indication of any immediat | e medical attention and special treatment needed | | |
| Section 5: Fire-fighting measu | res | | |
| 5.1. Extinguishing media | | | |
| Extinguishing media: | Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the | | |
| | surrounding fire should be used. | | |
| 5.2. Special hazards arising fro | om the substance or mixture | | |
| Exposure bazards: | In combustion emits toxic fumes. Carbon oxides. Nitrogen oxides (NOx). Hydrogen | | |
| | fluoride (HF). | | |
| 5.3. Advice for fire-fighters | | | |
| | | | |
| Advice for fire-fighters: | Wear self-contained breathing apparatus. Wear protective clothing to prevent contact | | |
| A H A H H H | with skin and eyes. | | |
| Section 6: Accidental release | neasures | | |
| 6.1. Personal precautions, pro | ective equipment and emergency procedures | | |
| Personal precautions: | Refer to section 8 of SDS for personal protection details. If outside do not approach from | | |
| | downwind. If outside keep bystanders upwind and away from danger point. Mark out the | | |
| | contaminated area with signs and prevent access to unauthorised personnel. | | |
| 6.2. Environmental precaution | 5 | | |
| Environmental precautions: | Do not discharge into drains or rivers. | | |
| 6.3. Methods and material for o | containment and cleaning up | | |
| Clean-up procedures: | Transfer to a closable, labelled salvage container for disposal by an appropriate | | |
| | method. | | |
| 6.4. Reference to other section | s | | |
| Soction 7. Handling and stars | 10 | | _ |
| Section 7: Handling and stora | Je | | |
| 7.1. Precautions for safe hand | ing | | |
| Handling requirements: | Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. | | |
| | | | |

Do not handle in a confined space. Avoid the formation or spread of dust in the air. Only use in fume hood.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

ETHYL 5-AMINO-1-(4-FLUOROPHENYL)-1H-PYRAZOLE-4-CARBOXYLATE

| | | Page: 4 |
|---------------------------------|--|---------|
| 7.3. Specific end use(s) | | |
| Specific end use(s): | No data available. | |
| Section 8: Exposure controls/p | personal protection | |
| 8.1. Control parameters | | |
| Workplace exposure limits: | Not applicable. | |
| 8.2. Exposure controls | | |
| Engineering measures: | Ensure there is sufficient ventilation of the area. | |
| Respiratory protection: | Self-contained breathing apparatus must be available in case of emergency. Respiratory | |
| | protective device with particle filter. | |
| Hand protection: | Protective gloves. | |
| Eye protection: | Safety glasses. Ensure eye bath is to hand. | |
| Skin protection: | Protective clothing. | |
| Section 9: Physical and chemi | cal properties | |
| 9.1. Information on basic physi | cal and chemical properties | |
| State: | Solid | |
| Colour: | Beige | |
| Ovidiainau | | |

Oxidising: Non-oxidising (by EC criteria)

Melting point/range °C: 153-154

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Acid chlorides.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides

(NOx). Hydrogen fluoride (HF).

ETHYL 5-AMINO-1-(4-FLUOROPHENYL)-1H-PYRAZOLE-4-CARBOXYLATE

Page: 5

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

| Hazard | Route | Basis |
|-------------------------------|-------|--------------------|
| Acute toxicity (ac. tox. 4) | ING | Based on test data |
| Skin corrosion/irritation | DRM | Based on test data |
| Serious eye damage/irritation | OPT | Based on test data |
| STOT-single exposure | INH | Based on test data |

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: Not applicable.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

| 13.1. Waste treatment methods | |
|-------------------------------|---|
| | |
| Disposal operations: | MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND |
| | FEDERAL REGULATIONS |
| Disposal of packaging: | Dispose of as special waste in compliance with local and national regulations Observe |
| | all federal, state and local environmental regulations. |
| NB: | The user's attention is drawn to the possible existence of regional or national |
| | regulations regarding disposal. |
| | |
| | |

ETHYL 5-AMINO-1-(4-FLUOROPHENYL)-1H-PYRAZOLE-4-CARBOXYLATE

Page: 6

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

| Other information: | This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010. |
|----------------------------|---|
| | * Data predicted using computational software. Toxtree - Toxic Hazard Estimation by |
| | decision tree approach. http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php? |
| | c=TOXTREE |
| | ~ Data predicted using computatioanl software ACD/ToxSuite v 2.95.1 Copyright 1994- |
| | 2009 ACD/labs, Copyright 2001-2009 Pharma Algorithms, Inc, Advanced Chemistry |
| | Development, Inc (ACD/Labs). http://www.acdlabs.com/products/pc_admet/tox/tox/ |
| Phrases used in s.2 and 3: | H302: Harmful if swallowed. |
| | H315: Causes skin irritation. |
| | H319: Causes serious eye irritation. |
| | H335: May cause respiratory irritation. |
| | R22: Harmful if swallowed. |
| | R36/37/38: Irritating to eyes, respiratory system and skin. |
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