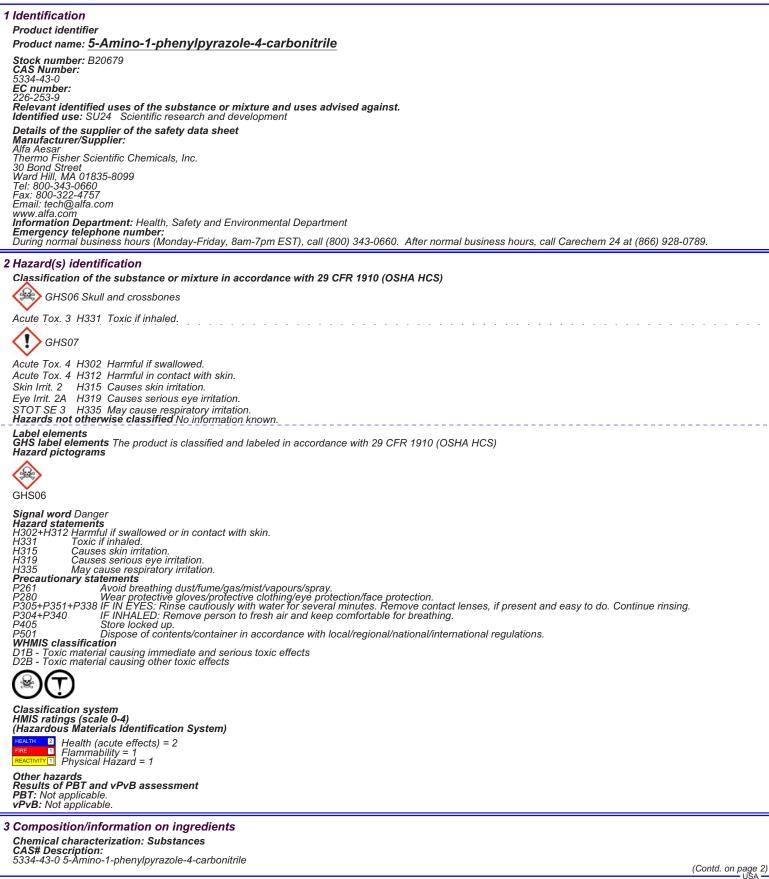


Safety Data Sheet per OSHA HazCom 2012



(Contd. of page 1)

Product name: 5-Amino-1-phenylpyrazole-4-carbonitrile

Identification number(s): EC number: 226-253-9

4 First-aid measures

Description of first aid measures

Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. **Methods and material for containment and cleaning up:** Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage

Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data

 Additional information: No data

 Exposure controls

 Personal protective equipment

 General protective and hygienic measures

 The usual precautionary measures for handling chemicals should be followed.

 Keep away from foodstuffs, beverages and feed.

 Remove all soiled and contaminated clothing immediately.

 Wash hands before breaks and at the end of work.

 Avoid contact with the eyes and skin.

 Maintain an ergonomically appropriate working environment.

 Breathing equipment: Use suitable respirator when high concentrations are present.

 Protection of hands:

 Impervious gloves

 Check protective dloves prior to each use for their proper condition.

The selection of suitable gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Eye protection:** Safety glasses **Body protection:** Protective work clothing.

9	Physical	and	chemical	properties

Information on basic physical and chemical properties General Information Appearance: Form: Crystalline powder

(Contd. on page 3)

Product name: 5-Amino-1-phenylpyrazole-4-carbonitrile

Odor: Not determined Odor threshold: Not determined. pH-value: Not determined. pH-value: Not applicable. Change in condition Matting point/Boiling range: 136-138 °C (277-280 °F) Boiling point/Boiling range: Not determined Not determined Sublimation temperature / start: Not determined Not determined Ignition temperature: Not determined Not determined Jupt: Not determined Not determined Danger of explosion: Product does not present an explosion hazard. Explosion limits: Lower: Not determined Not applicable Vappr: Not determined Not applicable Vapor density Not determined Vapprise Vapor density Not determined Vapor density Vapor density Not determined Vapor density Vapor density Not determined Vapor density Vapor density Not determined. Vapor density Vapor density Not determined. Vapor density Vapor density <t< th=""><th></th></t<>	
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11 Toxicological information	
Information on toxicological effects Acute toxicity: Harmful in contact with skin. Harmful in contact with skin. Harmful if swallowed. Toxic if inhaled. Danger through skin absorption. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Subacute to chronic toxicity: No effects known.	

Nutriles may resemble cyanides in toxicity. Exposure to nitriles may cause increased salivation, flushing of the face, eye and respiratory tract irritation, shallow respiration, nausea, vomiting, weakness, headache and diarrhea. Jaundice, anemia, and leucocytosis has been reported in some cases. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12 Ecological information

Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow undifilited product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment **PBT:** Not applicable. **vPvB:** Not applicable. **Other adverse effects** No further relevant information available. 13 Disposal considerations

Waste treatment methods

Recommendation Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

USA (Contd. on page 4)

Safety Data Sheet per OSHA HazCom 2012

Product name: 5-Amino-1-phenylpyrazole-4-carbonitrile

(Contd. of page 3)

product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 6 Other information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - ADR-Accode to Pragerous Goods by Road) MOC, international Marketing Department Date of progenous Goods by Road) MOC, international Marketing Department Date of progenous Goods by Road) MOC, international Marketing Department Date of progenous Goods by Road) MOC, international Marketional Karterione		(Conta. of page 3)				
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Mational regulations' This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity and seconding to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to the REACH Regulations (EC) No. 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. The conditions of restrictions according to the restation for use) Substance is not listed. The conditions of restrictions according to upplement to other information gathered by them, and should make indep	Hāzard statements H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/sp P280 Wear protective gloves/protective clothing/eye P305+P351+P338 IF IN EYES: Rinse cautiously with water for set P304+P340 IF INHALED: Remove person to fresh air and k P405 Store locked up.	eep comonable for breathing.				
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Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: ADR: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) MDG: International Markitime Code for Dangerous Goods DOT: US Department of Transportation HTML: Accord europeen auropeen auropeen auropeen auropeen accord europeen Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation HTML: International Marketion HTML: International Marketion HTML: International Marketion HTML: International Agreement of Transportation HTML: Intern	market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.					
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Product name: 5-Amino-1-phenylpyrazole-4-carbonitrile

EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UD50: Lethal dose, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTF: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

(Contd. of page 4)

USA