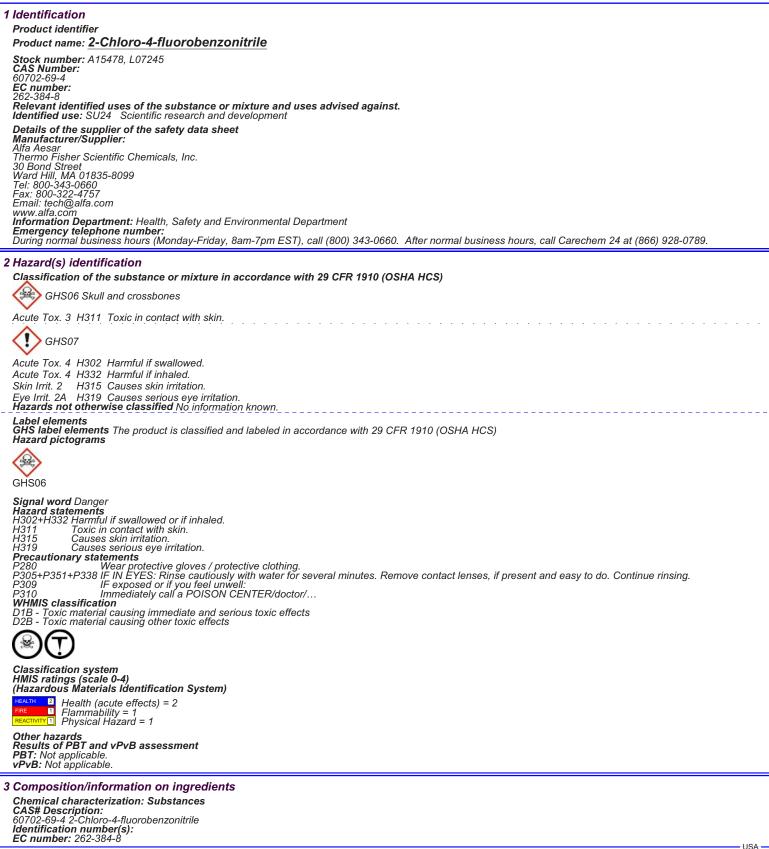


Safety Data Sheet per OSHA HazCom 2012



(Contd. on page 2)

Product name: 2-Chloro-4-fluorobenzonitrile

(Contd. of page 1)

4 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 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) Hydrogen fluoride (HF) Hydrogen choride (HCI) Hydrogen cyanide (HCN) Advice for firefighters Protective equipment: Wear self-contained respirator. 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 Exposure controls Personal protective equipment 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 Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves The period s gives prior to each use for their proper condition. Check protective 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 (Contd. on page 3)

Product name: 2-Chloro-4-fluorobenzonitrile

| | | (Contd. of page 2) |
|---|---|--------------------|
| Color: Odor: Odor threshold: | White Characteristic Not determined. | |
| pH-value: | Not applicable. | |
| Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: | 62-66 °C (144-151 °F) Not determined Not determined | |
| Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting: | Not applicable Not determined Not determined Not determined Not determined. | |
| Danger of explosion: Explosion limits: | Product does not present an explosion hazard. | |
| Lower: Upper: | Not determined Not determined | |
| Vapor pressure: Density: Relative density | Not applicable. Not determined Not determined. | |
| Vapor density Evaporation rate | Not applicable. Not applicable. | |
| Solubility in / Miscibility with Water: | Insoluble | |
| Partition coefficient (n-octanol/water Viscosity: | : Not determined. | |
| dynamic: | Not applicable. | |
| kinematic: Other information | Not applicable. No further relevant information available. | |
| | | |

10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen fluoride Hydrogen chloride (HCl) Hydrogen cyanide 11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful if swallowed.

Harmful if swallowed. Toxic in contact with skin. 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. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Garcinogenicity: No effects known. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Subacute to chronic toxicity: No effects known. 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: Coneral notes: **General notes:** Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted 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. **PPRE**. 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.

Safety Data Sheet per OSHA HazCom 2012

Product name: 2-Chloro-4-fluorobenzonitrile

(Contd. of page 3)

| | (Contd. of page |
|---|--|
| 4 Transport information | |
| UN-Number | |
| DOT, IMDG, IATA | UN3439 |
| UN proper shipping name | |
| DOT I III G IMDG, IATA | Nitriles, solid, toxic, n.o.s. (2-Chloro-4-fluorobenzonitrile) NITRILES, SOLID, TOXIC, N.O.S. (2-Chloro-4-fluorobenzonitrile) |
| Transport hazard class(es) | |
| DOT | |
| | |
| | |
| \checkmark | |
| Class Label | 6.1 Toxic substances. |
| Class | 6.1 6.1 (T2) Toxic substances |
| Label | 6.1 |
| IMDG, IATA | |
| | |
| \checkmark | |
| Class | 6.1 Toxic substances. |
| Label Booking group | 6.1 |
| Packing group DOT, IMDG, IATA | 111 |
| Environmental hazards: | Not applicable. |
| Special precautions for user | Warning: Toxic substances |
| Transport in bulk according to Annex II of MARPOL73/78 and the | |
| Transport/Additional information: | |
| DOT | |
| Marine Pollutant (DOT): | No |
| UN "Model Regulation": | UN3439, Nitriles, solid, toxic, n.o.s. (2-Chloro-4-fluorobenzonitrile), 6.1, III |
| Safety, health and environmental regulations/legislation specific GHS label elements The product is classified and labeled in accorda Hazard pictograms GHS06 Signal word Danger Hazard statements H302+H332 Harmful if swallowed or if inhaled. | for the substance or mixture ince with 29 CFR 1910 (OSHA HCS) |
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Safety Data Sheet per OSHA HazCom 2012

Product name: 2-Chloro-4-fluorobenzonitrile

HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent DS0: 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) NTP: National Toxicology Program (USA) IAPC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

(Contd. of page 4)

USA