

Safety Data Sheet per OSHA HazCom 2012

Reviewed 01112/10/2
1 Identification
Product identifier Product name: 2-Fluorobenzenesulfonamide
Stock number: H61743
CAS Number:
30058-40-3 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development
Details of the supplier of the safety data sheet Manufacturer/Supplier:
Alfa Aesar Thermo Eispher Scientific Chemicals, Inc.
30 Bond Street Ward Hill MA 01835-8099
30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757
Email: tech@alfa.com www.alfa.com
Information Department: Health, Safety and Environmental Department
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
2 Hazard(s) identification
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS06 Skull and crossbones
Acute Tox. 3 H331 Toxic if inhaled.
GHS07
Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H312 Harmful in contact with skin. Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms
GHS06
Signal word Danger Hazard statements USDN 1940-11 Hansel if southand an in contract with a king
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/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification D1B - Toxic material causing immediate and serious toxic effects
D2B - Toxic material causing other toxic effects
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Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH II HEALTH III HEALTH III HEALTH III HEALTH III HEALTH IIII HEALTH IIIII HEALTH IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
REACTWITY 1 Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment
PBT: Not applicable. vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances
CAS# Description: 30058-40-3 2-Fluorobenzenesulfonamide us
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(Contd. on page 2)

Product name: 2-Fluorobenzenesulfonamide

(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 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 Sulfur oxides (SOX) Hydrogen fluoride (HF) 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 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 becorder by a section becorder by the secondary by the Ensure adequate ventulation. **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 Precautions for sare nanoung 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 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 Impervious gloves 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. **Penetration time of glove material (in minutes)** Not determined **Eye protection:** Safety glasses **Body protection:** Protective work clothing. LISA (Contd. on page 3)

Product name: 2-Fluorobenzenesulfonamide

Page 3/5 Printing date 11/24/2015 Reviewed on 12/18/2012

	ionamide	(Contd. of page 2)
9 Physical and chemical properties	S	
Information on basic physical and ch General Information Appearance:	nemical properties	
Form: Odor:	Solid Not determined	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	162-166 °C (324-331 °F) Not determined Not determined Not determined Not determined Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water:	Not determined Not determined Not applicable. Not determined. Not applicable. Not applicable. Not applicable.	
Partition coefficient (n-octanol/water)): Not determined.	
Viscosity: dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
Possibility of hazardous reactions Re Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOX) Hydrogen fluoride Nitrogen oxides	nt information available.	
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	kin irritation. rious eye irritation. own. o on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. r - repeated exposure: No effects known. r - single exposure: May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant im Persistence and degradability No further Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow material to be released to to Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	ther relevant information available. relevant information available. rmation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. nt	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local	or national regulations to ensure proper disposal.	(Contd. on page 4)
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Safety Data Sheet per OSHA HazCom 2012

Product name: 2-Fluorobenzenesulfonamide

(Contd. of page 3)

Uncleaned packagings:

14 Transport information UN-Number DOT, MDG, IATA UN proper shipping name DOT Transport hazard class(es) DOT Class Label Class Label Environmental hazards: Not applicable. Transport/Additional information: DOT Marting: Toxic substances Transport/Additional information:<
DOT, IMDG, IATA UN2811 UN proper shipping name IMDG, IATA Toxic solids, organic, n.o.s. (2-Fluorobenzenesulfonamide) Transport hazard class(es) Toxic solids, organic, n.o.s. (2-Fluorobenzenesulfonamide) DOT Image: Class (es) Image: Class (es) Class (es) Class (es) Class (es) Label Class (es) Image: Class (es) Class (es) Class (es) Class (es) Label Class (es) Class (es) Class (es) DoT (mode:
Uk proper shipping name ODC, IATA Toxic solids, organic, n.o.s. (2-Fluorobenzenesulfonamide) Transport hazard class(es) TOXIC SOLID, ORGANIC, N.O.S. (2-Fluorobenzenesulfonamide) OUT Image: Class (es) OUT Image: Class (es) Class (class (es) Class (f1 (72) Toxic substances. Class (class (es) Class (f1 (f2) Toxic substances. Class (class (es) Class (f1 (f2) Toxic substances. Packing group (f1 (f2) (f2) (f2) Not applicable. Special precautions for user Warning: Toxic substances TransportAdditional information: OOT OOT Mode: Regulatorine: UN UN2811, Toxic solids, organic, n.o.s. (2-Fluorobenzenesulfonamide), 6.1, III UN Whodel Regulation :: UN2811, Toxic solids, organic, n.o.s. (2-Fluorobenzenesulfonamide), 6.1, III UN Whodel Regulation :: UN2811
Transport hazard class(es) DOT Class Label Class Clas
DOT
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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
National 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 re 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. The product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). 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, Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male 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 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.
16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of 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 r 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 11/24/2015 / -

(Contd. of page 4)

USA

Product name: 2-Fluorobenzenesulfonamide

Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent US0: Lethal concentration, 50 percent VPWE 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) IATA: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)