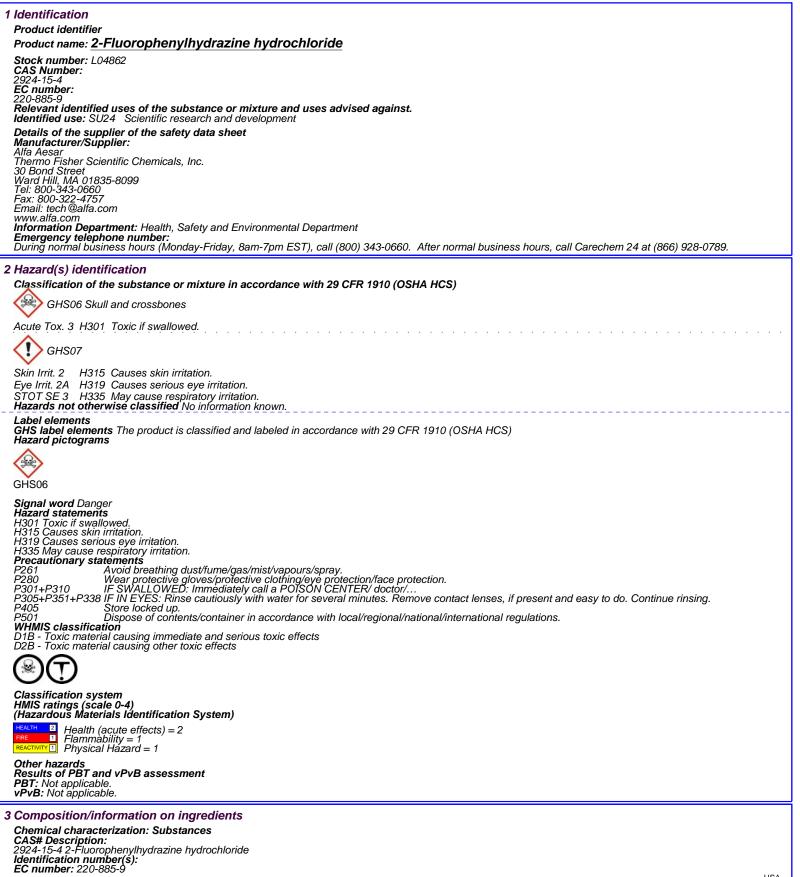


Safety Data Sheet per OSHA HazCom 2012



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Product name: 2-Fluorophenylhydrazine hydrochloride	
	(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 Immediately wash with water and soap and rinse thoroughly.	
Seek immediate medical advice. After eve contact Rinse opened eve for several minutes under running water. Then consult a doctor.	
After swallowing Seek medical tréatment. 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	1.
It this product is involved in a tire, the following can be released:	
Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen fluoride (HF)	
Advice for firefighter's Protective equipment: Wear soft contrained requireter	
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 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 coal directions in tightly closed containers	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection analysis explosions and fires: No information known	
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	
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 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. Eve protection: Safety classes	
Body protection: Protective work clothing.	
9 Physical and chemical properties	
Information on basic physical and chemical properties General Information	
Appearance: Form: <u>P</u> owder	
Color: Tan Odor: Not determined	
	(Contd. on page 3) USA

Product name: 2-Fluorophenylhydrazine hydrochloride

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		(Contd. of page 2)
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	205 °C (401 °F) (dec)	
Boiling point/Boiling range: Sublimation temperature / start:	Not determined	
Flash point:	Not applicable	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure:	Not applicable.	
Density: Relative density	Not determined Not determined.	
Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water:	Not determined	
Partition coefficient (n-octanol/water Viscosity:	r): Not determined.	
dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
Reactivity No information known. Chemical stability Stable under recon Thermal decomposition / conditions Possibility of hazardous reactions N Conditions to avoid No further releval Incompatible materials: Oxidizing age Hazardous decomposition products. Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen fluoride	: to be avoided : Decomposition will not occur if used and stored according to specifications. lo dangerous reactions known nt information available. ents	
Reproductive toxicity: No effects kno Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effe	skin irritation. erious eye irritation. nown. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. y - repeated exposure: No effects known. y - single exposure: May cause respiratory irritation.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant ir Persistence and degradability No fur Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes:	rther relevant information available. relevant information available. ormation available.	
Do not allow material to be released to Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT : Not applicable. vPvB : Not applicable. Other adverse effects No further relev		
13 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be r	l or national regulations to ensure proper disposal. made according to official regulations.	
4 Transport information	ntion	
Not a hazardous material for transporta		
DOT, IMDG, IATA UN proper shipping name	None	
DOT, IMDG, IATA	None	
		(Contd. on page

(Contd. on page 4)

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Product name: 2-Fluorophenylhydrazine hydrochloric	de
	(Contd. of page 3)
Transport hazard class(es)	1
DOT, ADR, IMDG, IATA Class	None
Packing group DOT, IMDG, IATA	None
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 ar	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
15 Regulatory information Safety, health and environmental regulations/legislation sp GHS label elements The product is classified and labeled in ac Hazard pictograms GHS06	ecific for the substance or mixture ccordance with 29 CFR 1910 (OSHA HCS)
P405 Store locked up. P501 Dispose of contents/container in accordance National regulations All components of this product are listed in the U.S. Environmer SARA Section 313 (specific toxic chemical listings) Substar California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not list Prop 65 - Developmental toxicity, male Substance is not list Prop 65 - Developmental toxicity, and Substance is not list Prop 65 - Developmental toxicity, and Substance is not list Prop 65 - Developmental toxicity, and Substance is not list Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Prop 65 - Developmental toxicity, and Substance is not listed. Substance of Very High Concern (SVHC) according to the F The conditions of restrictions according to Article 67 and A market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisat Chemical safety assessment: A Chemical Safety Assessment	ON CENTER/ doctor/ 'several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. we with local/regional/national/international regulations. ental Protection Agency Toxic Substances Control Act Chemical substance Inventory. ince is not listed. tot listed. sted. ed. ally qualified individuals. REACH Regulations (EC) No. 1907/2006. Substance is not listed. Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
information to ensure proper use and protect the health and saf	o other information gathered by them, and should make independent judgement of suitability of this fety of employees. This information is furnished without warranty, and any use of the product not in nation with any other product or process, is the responsibility of the user.

IARC: International Agency for Research on Can EPA: Environmental Protection Agency (USA) USA