



1	1 Identification	
	Product identifier	
	Product name: 2,6-Difluorobenzenesulfonamide	
	Stock number: H27128	
	CAS Number: 60230-37-7	
	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 Fisher Scientific Chemicals, Inc. 30 Bond Street	
	Ward Hill, MA 01835-8099	
	Tel: 800-343-0660 Fax: 800-32 <u>2</u> -4757	
	Email: tech@alfa.com	
	www.alfa.com Information Department: Health, Safety and Environmental Department	
	Emergency telephone number:	
	Call Carechem 24 at +44 (0) 1865 407333 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	Plazard(s) identification	
	Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
	CHS07	
	Skin Irrit. 2 H315 Causes skin irritation.	
	Eye 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.	
	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	
	$\wedge$	
	GHS07	
	Signal word Warning	
	Hazard statements	
	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+P35 1+P336 1F IN EYES. Rinse caulously with water for several minutes. Remove contact lenses, it present and easy to do. Continue mising P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	J.
	P405 Store locked up.	
	WHMIS classification	
	D2B - Toxic material causing other toxic effects	
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	Classification system	
	HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
	PIRE I Flammability = 1	
	REACTIVITY Physical Hazard = 1	
	Other hazards	
	Results of PBT and vPvB assessment PBT: Not applicable.	
	vPvB: Not applicable.	
.3	3 Composition/information on ingredients	
J	Chemical characterization: Substances	
	CAS# Description:	
	60230-37-7 2,6-Difluorobenzenesulfonamide	
4	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 eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
		(Contd. on page 2)
		USA

## Product name: 2,6-Difluorobenzenesulfonamide (Contd. of page 1) 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 Hydrogen fluoride (HF) Nitrogen oxides (NOx) Sulfur oxides (SOx) 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: 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 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 context with the everage and exin 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 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. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Color: Cream Not determined Odor: Odor threshold: Not determined. Not applicable. pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 192-194 °C (378-381 °F) Not determined Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Not determined. Not determined (Contd. on page 3)

## Product name: 2,6-Difluorobenzenesulfonamide

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		(Contd. of page 2		
Decomposition temperature: Auto igniting:	Not determined 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/wate Viscosity:	ter): Not determined.			
dynamic:	Not applicable.			
kinematic: Other information	Not applicable. No further relevant information available.			
0 Stability and reactivity				
Reactivity No information known.	en en de de la companya de la compa			
Chemical stability Stable under reco Thermal decomposition / condition	commended storage conditions. <b>ns to be avoided:</b> Decomposition will not occur if used and stored according to specifications.			
Possibility of hazardous reactions	No dangerous reactions known			
Conditions to avoid No further relevent incompatible materials: Oxidizing ag	vant information available.			
Hazardous decomposition product	its:			
Carbon monoxide and carbon dioxide Hydrogen fluoride	e			
Nitrogen oxides				
Sulfur oxides (SOx)				
1 Toxicological information				
Information on toxicological effects	ts			
Acute toxicity: No effects known.	Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data			
Skin irritation or corrosion: Causes	s skin irritation.			
Eye irritation or corrosion: Causes	s serious eye irritation.			
Sensitization: No sensitizing effects Germ cell mutagenicity: No effects	Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.			
Carcinogenicity: No classification da	Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Reproductive foxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known.				
Specific target organ system toxicity - single exposure: May cause respiratory irritation.				
Aspiration hazard. No effects known. Subacute to chronic toxicity: No effects known.				
	<b>on:</b> 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	t information available.			
Persistence and degradability No fu	further relevant information available.			
Bioaccumulative potential No furthe Mobility in soil No further relevant in	er relevant information available. nformation available.			
Additional ecological information:				
General notes: Do not allow material to be released t	to the environment without proper governmental permits.			
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 assessme	Avoid transfer into the environment			
PBT: Not applicable.	PBT: Not applicable.			
vPvB: Not applicable. Other adverse effects No further rele	levant information available.			
13 Disposal considerations Waste treatment methods				
Recommendation Consult state, loca	cal or national regulations to ensure proper disposal.			
Recommendation: Disposal must be made according to official regulations.				
Recommendation. Disposar must be	e made according to official regulations.			
14 Transport information				
Not a hazardous material for transpor	rtation.			
UN-Number DOT, IMDG, IATA	None			
UN proper shipping name DOT, IMDG, IATA				
	None			
Transport hazard class(as)				
Transport hazard class(es)				
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None			
DOT, ADR, IMDG, IATA Class				
DOT, ADR, IMDG, IATA Class Packing group DOT, IMDG, IATA	None			
DOT, ADR, IMDG, IATA Class Packing group DOT, IMDG, IATA Environmental hazards:	None Not applicable.			
DOT, ADR, IMDG, IATA Class Packing group DOT, IMDG, IATA	None	(Contd. on page		

(Contd. on page 4)

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roduct name: 2,6-Difluorobenzenesulfonamide	
	(Contd. of page
Transport in bulk according to Annex II of MARPOL73/	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
5 Regulatory information	
Safety, health and environmental regulations/legislatio GHS label elements The product is classified and labeled Hazard pictograms	n specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P405 Store locked up. P501 Dispose of contents/container in accord National regulations This product is not listed in the U.S. Environmental Protect to research and development only. This product must be use product must not be used for commercial purposes or in for SARA Section 313 (specific toxic chemical listings) Sul California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity, substance is not listed. Prop 65 - Developmental toxicity, male Substance is not Information about limitation of use: For use only by tech Other regulations, limitations and prohibitive regulation Substance of Very High Concern (SVHC) according to	ing/eye protection/face protection. r for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. iar and keep comfortable for breathing. lance with local/regional/national/international regulations. tion Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict sed by or directly under the supervision of a technically qualified individual as defined by TSCA. This mulations for commercial purposes. bstance is not listed. is not listed. t listed. t listed. the REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the risation for use) Substance is not listed.
information to ensure proper use and protect the health and	nt to other information gathered by them, and should make independent judgement of suitability of this d safety of employees. This information is furnished without warranty, and any use of the product not in mbination 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 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Alteritatis Code for Dangerous Goods DOT: US Department of Transportation (CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCS0: Lethal concentration, 50 percent US0: Lethal concentration, 50 percent VPW: 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) MAPC: International Americy for Research on Cancer	

NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)