



	Revision date 04/15/20
Identification	
Product identifier	
Product name: N-tert-ButyI-3-nitrobenzenesulfonamide	
Stock number: H58295	
CAS Number: 424818-25-7	
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	
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.
Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
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	
GHS07	
Signal word Warning	
Hazard statements	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
H335 May cause respirátory irritation. Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vapours/sprav	
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. Co P304+P340 IF INHALED; Remove victim to fresh air and keep at rest in a position comfortable for breathing.	ontinue rinsing.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P405 Store locked up.	0
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification D2B - Toxic material causing other toxic effects	
A	
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Classification system	
HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)	
FIRE I Flammability = 1	
REACTIVITY Physical Házard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable.	
vPvB: Not applicable.	
Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
424818-25-7 N-tert-Butyl-3-nitrobenzenesulfonamide	
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 skin contact Immediately wash with water and soap and rinse thoroughly.	

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Product name: N-tert-Butyl-3-nitrobenzenesulfonamide

Information for doctor Most important symptoms and effects, both acute and delayed Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. 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. Surface extinguishing agents Carbon dioxide, extinguishing p 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) 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 product to reach sewage system or any water course. 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.

Not applicable.

Not determined Not determined Not determined

7 Handling and storage

pH-value:

Change in condition

Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:

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: 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 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. **Recommended filter device for short term use:** Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. **Protection of hands:** Impervious gloves 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: Solid Not determined Odor: Odor threshold: Not determined

Product N-tort-Butyl-2-pitrobonzonosulfonamido

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roduct name: N-tert-Butyl-3-nitrob	nzenesulfonamide	
		(Contd. of page
Flammability (solid, gaseous)	Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower: Upper:	Not determined 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:		
dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
0 Stability and reactivity		
Reactivity No information known		
Chemical stability Stable under recomin Thermal decomposition / conditions to	o be avoided: Decomposition will not occur if used and stored according to sp	positions
Possibility of hazardous reactions Re	acts with strong oxidizing agents	
Conditions to avoid No further relevan Incompatible materials: Oxidizing age	information available.	
Hazardous decomposition products:	5	
Carbon monoxide and carbon dioxide Sulfur oxides (SOx)		
Nitrogen oxides		
1 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known.		
LD/LC50 values that are relevant for or Skin irritation or corrosion: Causes skin irritation or corrosion causes skin irritation causes skin irritation or corrosion causes skin irritation causes skin irritation causes skin irritation or corrosion causes skin irritation causes skin irrit	assification: No data	
Eye irritation or corrosion: Causes se	ious eye irritation.	
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	wn.	
Carcinogenicity: No classification data	on carcinogenic properties of this material is available from the EPA, IARC, NT	TP OSHA or ACGIH.
Reproductive foxicity: No effects know	repeated exposure: No effects known.	
Specific target organ system toxicity	• repeated exposure: No effects known. • single exposure: May cause respiratory irritation.	
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect		
Additional toxicological information:	's known. Fo the best of our knowledge the acute and chronic toxicity of this substance is	s not fullv known.
Carcinogenic categories		,
	Ith Administration) Substance is not listed.	
2 Ecological information		
Toxicity		
Aquatic toxicity: No further relevant inf	irmation available.	
Persistence and degradability No furth Bioaccumulative potential No further r	elevant information available.	
Mobility in soil No further relevant infor		
Additional ecological information: General notes:		
Do not allow undiluted product or large of Avoid transfer into the environment.	uantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessmen		
PBT: Not applicable. vPvB: Not applicable.		
vPvB: Not applicable. Other adverse effects No further releva	nt information available.	
3 Disposal considerations Waste treatment methods		
	r national regulations to ensure proper disposal.	
Uncleaned packagings:	.	
Recommendation: Disposal must be m	de according to onicial regulations.	
4 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA		
	Netanliashla	
Class	Not applicable	
	Not applicable	
Class		

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Product name: N-tert-Butyl-3-nitrobenzenesulfo	onamide
	(Contd. of page 3)
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL	73/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marina Dallutant (DOT):	
Marine Pollutant (DOT): UN "Model Regulation":	No
15 Regulatory information	
Safety, health and environmental regulations/legisla GHS label elements The product is classified and label Hazard pictograms	
GHS07	
P304+P340 IF INHALED: Remove victim to tresh P405 Store locked up. P501 Dispose of contents/container in acc National regulations This product is not listed in the U.S. Environmental Prote to research and development only. This product must be product must not be used for commercial purposes or in This product is not listed on the Canadian Domestic Sul SARA Section 313 (specific toxic chemical listings) California Proposition 65 Prop 65 - Chemicals known to cause cancer Substan Prop 65 - Developmental toxicity, speaker Substance is Prop 65 - Developmental toxicity, male Substance is Information about limitation of use: For use only by te Other regulations.	othing/eye protection/face protection. ater for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. a ar and keep at rest in a position comfortable for breathing. wordance with local/regional/national/international regulations. rection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted e used by or directly under the supervision of a technically qualified individual as defined by TSCA. This n formulations for commercial purposes. bstances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). Substance is not listed. ted. is not listed. echnically qualified individuals. tions to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 7 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
Department issuing SDS: Global Marketing Departmen Date of preparation / last revision 04/21/2016 / -	
Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses pa DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Soci HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent USA): Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) INTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Skin Irrit. 24: Skin corrosion/irritation, Hazard Category 2 Eve Irrit. 24: Secius seve damage/eve irritation. Hazard Category 2A	ar Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) iety) A)
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eve Irrit. 2A: Serious eve damage/eve irritation, Hazard Category 2A	

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