

1 Identification

Product identifier Product name: 2,4-Dimethoxy-1-nitrobenzene

Stock number: B25353 CAS Number: 4920-84-7 EC number: 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. Inerrito Fisher Scheman C. 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) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known. I abel elements

GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)



Health (acute effects) = 1Flammability = 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: 4920-84-7 2, 4-Dimethoxy-1-nitrobenzene Identification number(s): EC number: 222-551-6

#### 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. 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) Possibly Hydrogen cyanide (HCN) Advice for firetighters 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.

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(Contd. of page 1) Methods and material for containment and cleaning up: Pick up mechanically. 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. 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 General protective and mygenic 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. 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. 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: Crvstalline Color: Yellow to brown Odor: 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: 75-77 °C (167-171 °F) Not determined Not determined Not determined Not determined Not determined Auto igniting: Not determined Danger of explosion: Not determined. Explosion limits: Not determined ower: Upper: Not determined Vapor pressure: Not applicable. Density: Relative density Vapor density Not determined Not determined. Not applicable. Evaporation rate Not applicable. Solubility in / Miscibility with Water Not determined

Viscosity dvnamic. Not applicable. kinematic: Not applicable. No further relevant information available. Other information

## 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

Partition coefficient (n-octanol/water): Not determined.

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Product name: 2,4-Dimethoxy-1-nitrobenzene		
Hazardous decomposition products:		(Contd. of page 2)
Carbon monoxide and carbon dioxide		
Nitrogen oxides Possibly Hydrogen cyanide (HCN)		
11 Toxicological information		
Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for classification: No data		
Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation		I
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.		I
<b>Carcinogenicity:</b> No classification data on carcinogenic properties of this mat	terial is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects know	awa	
Specific target organ system toxicity - repeated exposure: No effects known. Aspiration hazard: No effects known.	wii. I.	
Subacute to chronic toxicity: No effects known.		
Additional toxicological information: To the best of our knowledge the acut	te 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.		I
<b>Bioaccumulative potential</b> No further relevant information available.		
Mobility in soil No further relevant information available. Additional ecological information:		
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, wate	er course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessment		
PBT: Not applicable.		
vPvB: Not applicable. Other adverse effects No further relevant information available.		
13 Disposal considerations		
Waste treatment methods		
<b>Recommendation</b> Consult state, local or national regulations to ensure prope	er disposal.	
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.		
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14 Transport information		
DOT, ADN, IMDG, IATA UN proper shipping name	Not applicable	
DOT, ADN, IMDG, ĨATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group		
DOT, IMDG, IATA Environmental hazards:	Not applicable Not applicable.	
Environmental nazards: Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co	· · ·	
Transport/Additional information:		
DOT		
Marine Pollutant (DOT): UN "Model Regulation":	No	
15 Regulatory information		
Safety, health and environmental regulations/legislation specific for the	substance or mixture	
GHS label elements Not applicable		
Signal word Not applicable Hazard statements Not applicable		
National regulations		
This product is not listed in the U.S. Environmental Protection Agency Toxic S to research and development only. This product must be used by or directly un	Substances Control Act Chemical Substance Inventory. Use of this private the supervision of a technically qualified individual as defined by	oduct is restricted
product must not be used for commercial purposes or in formulations for comm	mercial purposes	130A. 1113
SARA Section 313 (specific toxic chemical listings) Substance is not listed California Proposition 65	d.	1
<b>Prop 65 - Chemicals known to cause cancer</b> 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, 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 ind	and the second sec	
Other regulations, limitation of use: For use only by technically qualified ind Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regula	Jividuais.	
Substance of Very High Concern (SVHC) according to the REACH Regulator The conditions of restrictions according to Article 67 and Annex XVII of t	ations (EC) No. 1907/2006. Substance is not listed.	- placing on the
market and use must be observed.	the Regulation (EC) NO 1301/2000 (NEACH) for the manufacturing	, placing on the
Substance is not listed.		

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 this 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 not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility or the user.
Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/23/2015 / Abbreviations and acronyms:
RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organization
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 Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Information System (CAna)
UHMIS: Workplace Hazardous Materials Information System (Canada)
UESO: Lethal concentration, 50 percent
UDSO: Lethal concentration and Percent
UDSO: Lethal concentration and percent
UDSO: Lethal dose, 50 percent
UDSO: Le

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