

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: 1-(2-Nitrophenyl)piperazine Stock number: H26773 CAS Number: 59084-06-9 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: Manufacturer/supplier. Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 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: 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 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 respiratory irritation. Precautionary statements

 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.

 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.

 WHMIS classification D2B - Toxic material causing other toxic effects Т Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
 Health
 1

 IRE
 1

 IRE
 1

 Flammability = 1

 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: 59084-06-9 1-(2-Nitrophenyl)piperazine Identification number(s): EC number: 261-593-1 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.

(Contd. of page 1)

Product name: 1-(2-Nitrophenyl)piperazine

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) 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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

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 cloves

Impervious gloves

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:	Viscous liquid	
Color:	Red	
Odor: Odor threshold:	Not determined Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range:	Not determined	

Product name: 1-(2-Nitrophenyl)piperazine

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14 Transport information Not a hazardous material for transportation. UN-Number DOT, IMDG, IATA None UN proper shipping name DOT, IMDG, IATA None Transport hazard class(es) None DOT, ADR, IMDG, IATA None	Uncleaned packagings: Recommendation: Disposal must be n	nade according to official regulations.			
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DOT, IMDG, IATA None UN proper shipping name DOT, IMDG, IATA None Transport hazard class(es) None DOT, ADR, IMDG, IATA None Class None	Not a hazardous material for transporta	tion.			
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DOT, IMDG, IATA None Transport hazard class(es) DOT, ADR, IMDG, IATA Class None	UN proper shipping name				
DOT, ADR, IMDG, IATA	DOT, IMDG, IATA	None			
Class None	,				
(Contd. on page 4 USA		None			
			(Contd. on page 4)		

Braduct name: 1 (2 Nitranhany()ninorazina	
Product name: 1-(2-Nitrophenyl)piperazine	
Packing group	(Contd. of page 3)
Packing group DOT, IMDG, IATA	None
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
P305+P351+P338 IF IN EYES: Rinse cautiously with w P304+P340 IF INHALED: Remove person to free P405 Store locked up. P501 Dispose of contents/container in acc National regulations This product is not listed in the U.S. Environmental Pro to research and development only. This product must b product must not be used for commercial purposes or in SARA Section 313 (specific toxic chemical listings) California Proposition 65 Prop 65 - Chemicals known to cause cancer Substan Prop 65 - Developmental toxicity Substance is not lis Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, male Substance is Information about limitation of use: For use only by it	t/vapours/spray. clothing/eye protection/face protection. water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. esh air and keep comfortable for breathing. ccordance with local/regional/national/international regulations. otection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This in formulations for commercial purposes.) Substance is not listed. ance is not listed. s not listed. s not listed. s not listed.
Substance of Very High Concern (SVHC) according The conditions of restrictions according to Article of market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Au Chemical safety assessment: A Chemical Safety Ass	lations of the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the uthorisation for use) Substance is not listed. sessment has not been carried out.
information to ensure proper use and protect the health	lement to other information gathered by them, and should make independent judgement of suitability of this h and safety of employees. This information is furnished without warranty, and any use of the product not in 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 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substanc CAS: Chemical Abstracts Service (division of the American Chemical Soc HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent VPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (US OSHA: Occupational Safety and Health Administration (USA) NTP: National Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	ent ces ceety) SA)

USA ____