

Safety Data Sheet per OSHA HazCom 2012

Reviewed on ub/26/2012
1 Identification
Product identifier Product name: N,N'-Bis(benzyloxycarbonyl)-1H-pyrazole-1-carboxamidine
Stock number: H54092
CAS Number: 152120-55-3
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: 800-322-4757 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)
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. <b>Precautionary statements</b>
P261 Avoid breathing dust/fume/gas/mist/vapours/sprav
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
(T)
Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
$\begin{array}{c c} \hline HEALTH & 1\\ \hline Health (acute effects) = 1\\ \hline Hammability = 1\\ \hline Ha$
FIRE 1 Flammability = 1 REACTIVITY 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:
152120-55-3 N,N'-Bis(benzyloxycarbonyl)-1H-pyrazole-1-carboxamidine
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 USA

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Product name: N,N'-Bis(benzyloxyc	arbonyl)-1H-pyrazole-1-carboxamidine		
Information for deater		(Contd. of page 1)	
Information for doctor Most important symptoms and effects Indication of any immediate medical a	<b>is, both acute and delayed</b> No further relevant information available. <b>attention and special treatment needed</b> No further relevant information available.		
	attention and special treatment needed no futurer relevant information available.		
5 Fire-fighting measures Extinguishing media			
Suitable extinguishing agents Carbon Special hazards arising from the subs If this product is involved in a fire, the foi Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator.	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture stlowing can be released:		
Wear fully protective impervious suit.			
6 Accidental release measures Personal precautions, protective equi Wear protective equipment. Keep unpro Ensure adequate ventilation Environmental precautions: Do not all Methods and material for containmen Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on person See Section 13 for disposal information.	otected persons away. Ilow material to be released to the environment without proper governmental permits. <b>It and cleaning up:</b> Ensure adequate ventilation. 5 special measures required. andling 1al protection equipment.		
7 Handling and storage			
Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed of Ensure good ventilation at the workplace	e.		
Information about protection against Conditions for safe storage, including	r <b>explosions and fires:</b> No information known. g any incompatibilities		
Storage Requirements to be met by storeroon	ns and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents. onditions: led containers.		
8 Exposure controls/personal prote	ection		
Additional information about design of			
Control parameters			
Components with limit values that red The product does not contain any releva Additional information: No data	<b>quire monitoring at the workplace:</b> ant quantities of materials with critical values that have to be monitored at the workplace.		
Exposure controls Personal protective equipment			
General protective and hygienic measures The usual precautionary measures for bandling chemicals should be followed			
Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo	and feēd. othing immediately.		
Wash hands before breaks and at the en Avoid contact with the eyes and skin.			
Protection of hands: Impervious aloves	working environment. spirator when high concentrations are present.		
Check protective gloves prior to each us	y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. In minutes) Not determined		
9 Physical and chemical properties Information on basic physical and che			
General Information Appearance: Form:	Solid		
Color: Odor:	White to pale brown Not determined		
Odor threshold:	Not determined.		
pH-value: Change in condition	Not applicable.		
Melting point/Melting range: Boiling point/Boiling range:	87-91 °C (189-196 °F) Not determined		
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined		
Ignition temperature: Decomposition temperature:	Not determined Not determined		
Auto igniting:	Not determined.		
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## Product name: N,N'-Bis(benzyloxycarbonyl)-1H-pyrazole-1-carboxamidine

		(Contd. of page 2)	
Danger of explosion: Explosion limits:	Not determined.		
Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not applicable.		
Density:	Not determined Not determined		
Relative density Vapor density	Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water:	Not determined		
Partition coefficient (n-octanol/water, Viscosity:			
dynamic: kinematic:	Not applicable. Not applicable.		
Other information	No further relevant information available.		
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions Re Conditions to avoid No further relevar Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	t <b>o be avoided</b> : Decomposition will not occur if used and stored according to specifications. Pacts with strong oxidizing agents t information available.		
11 Toxicological information			
Information on toxicological effects			
Acute toxicity: No effects known. LD/LC50 values that are relevant for a	classification: No data		
Skin irritation or corrosion: Causes s Eye irritation or corrosion: Causes se	kin irritation. rious eve irritation		
Sensitization: No sensitizing effects kn	own.		
	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.		
Reproductive toxicity: No effects know Specific target organ system toxicity	vn. <b>- repeated exposure:</b> No effects known.		
	- single exposure: May cause respiratory irritation.		
Subacute to chronic toxicity: No effect			
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No furt Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: 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 assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relev	her relevant information available. elevant information available. mation available. he environment without proper governmental permits. quantities to reach ground water, water course or sewage system. <b>t</b>		
13 Disposal considerations			
Waste treatment methods	ar national regulations to ansure proper dispect		
Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings:			
Recommendation: Disposal must be n	ade according to official regulations.		
14 Transport information			
UN-Number DOT, ADN, IMDG, IATA	Not applicable		
UN proper shipping name DOT, ADN, IMDG, IATA			
Transport hazard class(es)	Not applicable		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable		
Packing group DOT, IMDG, IATA	Not applicable		
Environmental hazards:	Not applicable.		
Special precautions for user	Not applicable.		
i	II of MARPOL73/78 and the IBC Code Not applicable.		
Transport/Additional information:			
DOT Marine Pollutant (DOT):	No		
	INU	(Contd. on page 4)	
		USA USA	

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UN "Model Regulation":

## 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture 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 P405 Store locked up. 

 Piol
 Dispose of contents/container in accordance with local/regional/national/international regulations.

 National regulations
 This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

 This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).

 SARA Section 313 (specific toxic chemical listings) Substance is not listed.

 California Proposition 65

 Prop 65 - Chemicals known to cause cancer Substance is not listed.

 Prop 65 - Developmental toxicity, female Substance is not listed.

 Prop 65 - Developmental toxicity, male Substance is not listed.

 Prop 65 - Developmental toxicity, male Substance is not listed.

 Information abut limitation of use: For use only by technically qualified individuals.

 Other regulations, limitations and prohibitive regulations

 Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

 The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

 Substance is not listed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 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. Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -Date of preparation / last revision 11/24/2015 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal cose, 50 percent VPWE 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) LR7C: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA

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