



	dentification
	Product identifier Product name: 1H-Indazole-4-boronic acid pinacol ester
9	Stock number: H32507
8	CAS Number: 385618-33-7
ŀ	Relevant identified uses of the substance or mixture and uses advised against. dentified use: SU24 Scientific research and development
L	Details of the supplier of the safety data sheet
4	Manufacturer/Supplier: Ma Aesar Ta de Sar
	Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Nord Util MA 04925, 9999
ł	Vard Hill, MA 01835-8099 Fel: 800-343-0660 Fax: 800-322-4757
E	Email: tech@alfa.com
	vww.alfa.com nformation Department: Health, Safety and Environmental Department
Ľ	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.
21	Hazard(s) identification
9	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.
0	abel elements GHS label elements Not applicable
ŀ	lazard pictograms Not applicable Signal word Not applicable
- F	Häzard statements Not applicable NHMIS classification Not controlled
	Classification system
(IMIS ratings (scale 0-4) Hazardous Materials Identification System)
	tEALTH
	REACTIVITY D Physical Házard = 1
Ē	Other hazards Results of PBT and vPvB assessment
	PBT: Not applicable. PVB: Not applicable.
3 (Composition/information on ingredients
	Chemical characterization: Substances CAS# Description:
	385618-33-7 1H-Indazole-4-boronic acid pinacol ester
	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.
1	After skin contact mmediately wash with water and soap and rinse thoroughly.
	Seek immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
í	After swallowing Seek medical tréatment. nformation for doctor
	Nost important symptoms and effects, both acute and delayed No further relevant information available. ndication of any immediate medical attention and special treatment needed No further relevant information available.
51	Fire-fighting measures
E	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
(f this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide
l E	Nitrogen oxides (NOX) Boron oxide Possibly Hydrogen cyanide (HCN)
	Advice for firefighters
l	Protective equipment: Near self-contained respirator.
l	Vear fully protective impervious suit.
-	Accidental release measures
l	Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
E	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: Pick up mechanically. Prevention of secondary hazards: No special measures required.

Prevention of secondary hazards: No special measures required.

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		(Ormerical and margins 4)			
Reference to other sections		(Contd. of page 1)			
See Section 7 for information on safe has See Section 8 for information on person	andling pal 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	t explosions and fires: No information known.				
Conditions for safe storage, including	g any incompatibilities				
Storage Requirements to be met by storerooms and receptacles: No special requirements.					
Information about storage in one con Further information about storage co	nmon storage facility: Store away from oxidizing agents.				
Keep container tightly sealed.					
Store in cool, dry conditions in well seal Specific end use(s) No further relevant	led containers. It information available				
8 Exposure controls/personal prot					
Additional information about design Properly operating chemical fume hood	of technical systems: I designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.				
Control parameters					
	quire monitoring at the workplace: Not required.				
Exposure controls Personal protective equipment					
General protective and hygienic mea The usual precautionary measures for h	ISUTES				
Keen away from foodsfutts heverages	and feed				
Remove all soiled and contaminated clo Wash hands before breaks and at the e	othing immediately. and of work				
Maintain an ergonomically appropriate v	working environment.				
Breathing equipment: Use suitable res Protection of hands:	spirator when high concentrations are present.				
Impervious aloves	and the formation of the second state of				
Check protective gloves prior to each us The selection of suitable gloves not only	y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.				
Penetration time of glove material (in Eye protection: Safety glasses	minutes) Not determined				
Body protection: Salety glasses Body protection: Protective work cloth	ning.				
9 Physical and chemical properties					
Information on basic physical and ch					
General Information					
Appearance: Form:	Solid				
Odor:	Not determined				
Odor threshold: pH-value:	Not determined. Not applicable.				
Change in condition	Not applicable.				
Melting point/Melting range:	139-142 °C (282-288 °F)				
Boiling point/Boiling range: Sublimation temperature / start:	Not determined				
Flammability (solid, gaseous)	Not determined.				
Ignition temperature: Decomposition temperature:	Not determined Not determined				
Auto igniting:	Not determined.				
Danger of explosion:	Product does not present an explosion hazard.				
Explosion limits: Lower:	Not determined				
Upper: Vapor prossuro:	Not determined				
Vapor pressure: Density:	Not applicable. Not determined				
Relative density	Not determined.				
Vapor density Evaporation rate	Not applicable. Not applicable.				
Solubility in / Miscibility with Water:	Not determined				
Partition coefficient (n-octanol/water)					
	, Not determined.				
Viscosity:					
	Not applicable. Not applicable. No further relevant information available.				

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 Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Boron oxide

(Contd. of page 2)

Possibly Hydrogen cyanide (HCN)	(Contd. of page 2)			
11 Tavical anisot information				
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				
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.				
Carcinogenicity: EPA-I: Data are inadequate for an assessment of human carcino	genic potential.			
Reproductive foxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known.				
Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known.				
Subacute to chronic toxicity: No effects known.				
Subacute to chronic toxicity: Boron affects the central nervous system. Boron poisoning causes depression of the	he circulation persistant vomiting and diarrhea followed by profound shock and			
coma. The temperature may become subnormal and a scarletina form rash may co	over the entire body.			
Additional toxicological information: To the best of our knowledge the acute and				
12 Ecological information				
Toxicity Aquatic toxicity: No further relevant information available.				
Persistence and degradability No further relevant information available.				
Bioaccumulative potential 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 government	al permits.			
Do not allow undiluted product or large quantities to reach ground water, water cour Avoid transfer into the environment.	rsé or sewage system.			
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				
Recommendation Consult state, local or national regulations to ensure proper disp Uncleaned packagings:	posal.			
Recommendation: Disposal must be made according to official regulations.				
14 Transport information				
Not a hazardous material for transportation.				
UN-Number DOT, IMDG, IATA No	one			
UN proper shipping name DOT, IMDG, IATA No	one			
Transport hazard class(es)				
DOT, ADR, IMDG, IATA Class No	one			
Packing group DOT, IMDG, IATA No	one			
	ot applicable.			
	ot applicable.			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not				
Transport/Additional information: No	ot dangerous according to the above specifications.			
Marine Pollutant (DOT): No	0			
15 Degulatory information				
15 Regulatory information				
Safety, health and environmental regulations/legislation specific for the subst GHS label elements Not applicable				
Hazard pictograms Not applicable Signal word Not applicable				
Hazard statements Not applicable				
National regulations 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. 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 - Chemicals known to cause cancer 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 individual	als.			
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 individual	als. s (EC) No. 1907/2006. 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 individua Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations The conditions of restrictions according to Article 67 and Annex XVII of the REACH	als. s (EC) No. 1907/2006. Substance is not listed. egulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the			
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 individual	als. s (EC) No. 1907/2006. Substance is not listed. egulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the (Contd. on page 4)			

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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.	(Contd. of page 3)
16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suit information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.	ability of this product not in
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Redjement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (IACA) ICAO: Ti: Technical Instructions by the "International Civil Aviation Organization" (ICAO) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal adverse Joaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) NTP: National Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	