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1	1 Identification	
	Product identifier Product name: trans,trans-4-(3,4-Difluorophenyl)-4'-n-propylbicyclohexyl	
	Stock number: H55356	
	CAS Number: 82832-57-3	
	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) 928-0	0789.
2	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.	
	Label 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 I Health (acute effects) = 1	
	REACTIVITY Physical Hazard = 1	
	Other hazards Results of PBT and vPvB assessment	
	PBT: Not applicable. vPvB: Not applicable.	
3	3 Composition/information on ingredients	
	Chemical characterization: Substances CAS# Description:	
	82832-57-3 trans,trans-4-(3,4-Difluorophenyl)-4'-n-propylbicyclohexyl	
4	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 immédiate 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	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:	
	n this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Hydrogen fluoride (HF)	
	Ádvice for firefighters	
	Protective equipment: Wear self-contained respirator. Wear fully protective impensions suit	
_	Wear fully protective impervious suit.	
D	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: 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.	
		(Contd. on page 2)

## Product name: trans,trans-4-(3,4-Difluorophenyl)-4'-n-propylbicyclohexyl

See Section 13 for disposal information.		(Contd. of pag		
7 Handling and storage				
Handling				
Precautions for safe handling				
Keep container tightly sealed.	a containe re			
Store in cool, dry place in tightly closed of Information about protection against	explosions and fires: No information known.			
, ,	•			
Conditions for safe storage, including Storage	y any incompatibilities			
Requirements to be met by storeroom	ns and receptacles: No special requirements.			
Information about storage in one com	imon storage facility: Store away from oxidizing agents.			
Further information about storage con Keep container tightly sealed.	nations:			
Store in cool, dry conditions in well seale	ed containers.			
Specific end use(s) No further relevant	information available.			
8 Exposure controls/personal prote	ection			
Additional information about design o	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 req	<b>quire monitoring at the workplace:</b> ant quantities of materials with critical values that have to be monitored at the workplace.			
Additional information: No data	את קטמוממיסי סו והמנסומוס שומו סומסמו עמומסס מומנ חמעים נס אם וווטוונטופט מנ מום שטורגאומנים.			
Exposure controls				
Personal protective equipment				
General protective and hygienic meas	sures			
The usual precautionary measures for ha Keep away from foodstuffs, beverages a	andling chemicals should be followed. and feed			
Remove all soiled and contaminated clot	thing immediately.			
Wash hands before breaks and at the er	nd of work.			
Maintain an ergonomically appropriate w	vorking environment. pirator when high concentrations are present.			
	pirator when high concentrations are present.			
Protection of hands:	, ,			
Protection of hands: Impervious gloves				
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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 Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride

## Product name: trans,trans-4-(3,4-Difluorophenyl)-4'-n-propylbicyclohexyl

		(Contd. of page 2)			
11 Toxicological information					
Information on toxicological effects					
Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No da					
Skin irritation or corrosion: May cause irritation	ara				
Eye irritation or corrosion: May cause irritation					
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.					
<b>Carcinogenicity:</b> No classification data on carcinogenic pro	operties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.				
Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposur	re• No effects known.				
Specific target organ system toxicity - repeated exposur Specific target organ system toxicity - single exposure:	No effects known.				
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known.					
Additional toxicological information: To the best of our kr	nowledge the acute 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 informat	tion available.				
Bioaccumulative potential No further relevant information a Mobility in soil No further relevant information available.	available.				
Additional ecological information:					
General notes: Do not allow undiluted product or large quantities to reach gr	round water, water 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 availa	able				
13 Disposal considerations					
Waste treatment methods					
Recommendation Consult state, local or national regulation	ns to ensure proper disposal.				
Uncleaned packagings: Recommendation: Disposal must be made according to offi	ficial regulations.				
14 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	Natantianha				
Class Packing group	Not applicable				
Packing group DOT, IMDG, IATA	Not applicable				
Environmental hazards:	Not applicable.				
Special precautions for user	Not applicable.				
Transport in bulk according to Annex II of MARPOL73/78	8 and the IBC Code Not applicable.				
Transport/Additional information:					
DOT					
Marine Pollutant (DOT):	No				
UN "Model Regulation":					
15 Regulatory information					
	anasilia far tha substance ar mixture				
GHS label elements Not applicable	Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable				
Hazard pictograms Not applicable					
Signal word Not applicable Hazard statements Not applicable					
National regulations	A service Truis Outpeterson Ocastral Act Chamical Substance Inventory, Line of	11-1- mustic to reatisted			
This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restr 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 Substance is not listed.					
<b>Prop 65 - Developmental toxicity, female</b> Substance is not					
Prop 65 - Developmental toxicity, male Substance is not li Information about limitation of use: For use only by techni	isted.				
Other regulations, limitations and prohibitive regulations	S				
Substance of Very High Concern (SVHC) according to th	he REACH Regulations (EC) No. 1907/2006. Substance is not listed.	t lass also have an the			
The conditions of restrictions according to Article 67 and market and use must be observed.	nd Annex XVII of the Regulátion (EC) No 1907/2006 (REACH) for the manufac	turing, 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.

USA (Contd. on page 4)

## Product name: trans,trans-4-(3,4-Difluorophenyl)-4'-n-propylbicyclohexyl

(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 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 of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and accoryms: 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 concentration, 50 percent LD50: Lethal concentration of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA