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1 Identification	
Product identifier	
Product name: trans-4-n-Pentylcyclohexanecarboxylic acid	
Stock number: B21716 CAS Number: 38289-29-1	
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: Product Safety Department Health, Safety and Environmental Department Emergeneu solonbone number	
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	3-0789.
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	
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 rinsi	ng
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up.	ng.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D2B - Toxic material causing other toxic effects	
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Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1	
FRE 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: 38289-29-1 trans-4-n-Pentylcyclohexanecarboxylic acid	
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.	
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(Contd. of page 1) 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 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: 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 Reep 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 nyglenic 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 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: Color: Powder White 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: 52-55 °C (126-131 °F) Not determined Not determined Flash point: Flammability (solid, gaseous) Not applicable Not determined. Ignition temperature: Decomposition temperature: Not determined Not determined

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Product name: trans-4-n-Pentylcyclohexanecarboxylic acid		
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Auto igniting:	Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Product does not present an explosion hazard. Not determined Not determined Not determined. Not determined. Not applicable. Not determined Not determined. Not determined. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.	
10 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agen Hazardous decomposition products: (nt information available. nts	
11 Toxicological information		
Reproductive foxicity: No effects know Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	kin irritation. prious eye irritation. own. own on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furthe Bioaccumulative potential No further re Mobility in soil No further relevant inforn Additional ecological information: General notes: Do not allow material to be released to th	her relevant information available. relevant information available. rmation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. It	
13 Disposal considerations		
Waste treatment methods	or national regulations to ensure proper disposal. nade according to official regulations.	
14 Transport information Not a hazardous material for transportati	ion.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA	None	
DOT, IMDG, IATA Environmental hazards:	None Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	x II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
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Product name: trans-4-n-Pentylcyclonexane	Product name: trans-4-n-Pentylcyclohexanecarboxylic acid		
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DOT Marine Pollutant (DOT):	No		
15 Regulatory information Safety, health and environmental regulations/leg GHS label elements The product is classified and Hazard pictograms	gislation specific for the substance or mixture labeled in accordance with 29 CFR 1910 (OSHA HCS)		
GHS07			
P405 Store locked up. P501 Dispose of contents/container in National regulations This product is not listed in the U.S. Environmental to research and development only. This product mus product must not be used for commercial purposes SARA Section 313 (specific toxic chemical listin California Proposition 65 Prop 65 - Chemicals known to cause cancer Sub Prop 65 - Developmental toxicity, female Substanc Prop 65 - Developmental toxicity, male Substanc Prop 65 - Developmental toxicity, male Substanc Prop 65 - Developmental toxicity, male Substance Prop 65 - Developmental toxicity, male Substance	ve clothing/eye protection/face protection. ith water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. o fresh air and keep comfortable for breathing. In accordance with local/regional/national/international regulations. I Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted ust be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This is or in formulations for commercial purposes. ngs) Substance is not listed. bstance is not listed. of listed. ance is not listed. ce is not listed.		
The conditions of restrictions according to Artic market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Chemical safety assessment: A Chemical Safety	cie 67 and Annex X vii of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the gravitation for use) Substance is not listed.		
16 Other information Employers should use this information only as a sup information to ensure proper use and protect the he conformance with this Material Safety Data Sheet, o	upplement to other information gathered by them, and should make independent judgement of suitability of this ealth and safety of employees. This information is furnished without warranty, and any use of the product not in or in combination with any other product or process, is the responsibility of the user.		
Department issuing SDS: Global Marketing Depart Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association CAS: Chemical Abstracts Service (division of the American Chemica HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canad LC50: Lethal concentration, 50 percent DD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent CAGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration (USA) NTP: National Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	artment al Society)		