

# Safety Data Sheet per OSHA HazCom 2012

Reviewed on 08/17/20
1 Identification
Product identifier Product name: 1,3,5-Trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane
Stock number:
2374-14-3 EC number:
219-154-7 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.
Ward Hill, MA 01835-8099
30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com
www.aira.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)
GHS06 Skull and crossbones
Acute Tox. 3 H301 Toxic if swallowed.
GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye 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
GHS06
Signal word Danger
Hazard statements H301 Toxic if swallowed. H315 Courses of the invitation
H315 Causes skin irritation. H319 Causes serious eye irritation. <b>Precautionary statements</b>
P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, it present and easy to do. Continue rinsing. P362 Take off contaminated clothing.
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification D1A - Very toxic material causing immediate and serious toxic effects
D2B - Toxic material causing other toxic effects
Classification system HMIS ratings (scale 0-4)
(Hazardouš Materials Identification System)
FIRE     Flammability = 1       REACTIVITY     Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment
PBT: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances
CAS# Description: 2374-14-3 1,3,5-Trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cycletriciloxyan
cyclotrisiloxane Identification number(s): EC number: 219-154-7

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### Product name: 1,3,5-Trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane

(Contd. of page 1)

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4 First-aid measures Description of first aid measures General information Immediately remove any clothing soiled by the product.	
Infrieduately refride any clothing solice by the product. In case of irregular breathing or respiratory arrest provide artificial respiration. <b>After inhalation</b> 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 eye contact Ninse opened eye for several minitale under raining water. Then consult a doctor. After swallowing Do not induce vomiting; immediately call for medical help. 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	
<ul> <li>S Fire-ingniting measures</li> <li>Extinguishing media</li> <li>Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.</li> <li>Special hazards arising from the substance or mixture</li> <li>If this product is involved in a fire, the following can be released:</li> <li>Carbon monoxide and carbon dioxide</li> <li>Hydrogen fluoride (HF)</li> <li>Silicon oxide</li> <li>Advice for firefighters</li> <li>Protective equipment:</li> <li>Wear self-contained respirator.</li> <li>Wear fully protective impervious suit.</li> </ul>	
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: Dispose of contaminated material as waste according to section 13. 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 tighty 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 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 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. <b>Penetration time of glove material (in minutes)</b> Not determined <b>Eye protection:</b> Safety glasses <b>Body protection:</b> Protective work clothing.	
9 Physical and chemical properties	
Information on basic physical and chemical properties General Information Appearance:	
Form: Solid	(Contd. on page 3)

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#### Product name: 1,3,5-Trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane

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Color:	White	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	34-36 °C (93-97 °F) 135 °C (275 °F) (22 mmHg)	
Sublimation temperature / start:	Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined Not determined Not determined Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic:	Not determined Not applicable. 1.24 g/cm <sup>3</sup> (10.348 lbs/gal) Not determined. Not applicable. Not applicable. Insoluble : Not determined. Not applicable.	
kinematic:	Not applicable.	
Other information	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 Hydrogen fluoride Silicon oxide		
11 Toxicological information		
Information on toxicological effects Acute toxicity: Toxic if swallowed.		
LD/LC50 values that are relevant for a	Classification:	

 Oral
 LD50
 180 mg/kg (rat)

 Dermal
 LD50
 25400 mg/kg (rabbit)

Dermal LD50 25400 mg/kg (rabbit) Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes skin irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: 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. Other information (about experimental toxicology): Reproductive effects have been observed on tests with laboratory animals. Subacute to chronic toxicity:

Other information (about experimental toxicology): Reproductive effects have been observed on tests with laboratory animals. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals: Behavioral - somnolence (general depressed activity). Lungs, Thorax, or Respiration - dyspnea. Liver - other changes. Nutritional and Gross Metabolic - weight loss or decreased weight gain. Related to Chronic Data - death. Liver - changes in liver weight. Blood - changes in serum composition (e.g. TP, bilirubin, cholesterol). Blochemical - Enzyme inhibition, induction, or change in blood or tissue levels - phosphatases. Cardiac - changes in heart weight. Ridney, Ureter, Bladder - changes in bladder weight. Reproductive - Paternal Effects - spermatogenesis (including genetic material, sperm morphology, motility, and count). Reproductive - Fertility - male fertility index (e.g. # males impregnating females per # males exposed to fertile nonpregnant females) Reproductive - Effects on Newborn - other postnatal measures or effects. Subacute to chronic toxicity:

Subacute to chronic toxicity: Organic silicon compounds are generally of low toxicity. Those exhibiting moisture sensitivity may be strongly irritating or corrosive on contact. Additional toxicological information: To the best of our knowledge 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 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 governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.

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Product name: 1,3,5-Trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)c	yclotrisiloxane	
<b>Results of PBT and vPvB assessment PBT:</b> Not applicable. <b>vPvB:</b> Not applicable. <b>Other adverse effects</b> No further relevant information available.	(Contd. of page 3)	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local or national regulations to ensure pro Uncleaned packagings: Recommendation: Disposal must be made according to official regulations		
14 Transport information		
UN-Number DOT, IMDG, IATA	UN2811	
UN proper shipping name DOT IMDG, IATA	Toxic solids, organic, n.o.s. (1,3,5-Trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cyclotrisiloxane) TOXIC SOLID, ORGANIC, N.O.S. (1,3,5-Trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cyclotrisiloxane)	
Transport hazard class(es) DOT Class Label Class Label IMDG, IATA	6.1 Toxic substances. 6.1 6.1 (T2) Toxic substances 6.1	
Class Label	6.1 Toxic substances. 6.1	
Packing group DOT, IMDG, IATA	···	
Environmental hazards:	Not applicable.	
Special precautions for user EMS Number:	Warning: Toxic substances F-A.S-A	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC C		
Transport/Additional information:		
DOT		
Marine Pollutant (DOT): UN "Model Regulation":	No	
	UN2811, Toxic solids, organic, n.o.s. (1,3,5-Trimethyl-1,3,5-tris(3,3,3- trifluoropropyl)cyclotrisiloxane), 6.1, III	
<b>15 Regulatory information</b> <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> <b>GHS label elements</b> The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) <b>Hazard pictograms</b> GHS06		

Signal word Danger Hazard statements Hazard statements H301 Toxic if swallowed. H315 Causes skin irritation. Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/... P305+P351+P330 IF NEYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P351+P330 IF NEYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P351 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 P305 P305 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 P305 P305 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 P305 P305 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 P305 IN EVES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 P305 IN EVES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305 P305 IN EVES. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, caccording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The

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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. 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 11/23/2015 / Abbreviations and acronyms:
RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods kegulations by the "International Air Transport Association" (IATA)
ICAC: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transport Association
IATA: International Air Transport Association
IATA: International Abstracts Service (division of the American Chemical Society)

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