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	0/20/2010
1 Identification	
Product identifier	
Product name: Trifluoroiodomethane	
Stock number: 39665 CAS Number:	
2314-97-8 EC number:	
219-014-5 Index number:	
602-086-00-0 Relevant identified uses of the substance or mixture and uses advised against.	
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)	
GHS04 Gas cylinder	
Press. Gas H280 Contains gas under pressure; may explode if heated.	
GHS08 Health hazard	
Muta. 2 H341 Suspected of causing genetic defects. 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	
GHS04 GHS08	
Signal word Warning Hazard statements	
Hazard statements H280 Contains gas under pressure; may explode if heated.	
H280 Contains gas under pressure; may explode if heated. H341 Suspected of causing genetic defects. Precautionary statements	
P201 () htain special instructions before use	
P281 Use personal protective equipment as required. P202 Do not handle until all safety precautions have been read and understood. P308+P313 IF exposed or concerned: Get medical advice/attention.	
P405 Store locked up	
P410+P403 Protect from sunlight. Store in a well-ventilated place. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
A - Compressed gas D2B - Toxic material causing other toxic effects	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 0 REACTIVITY I 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:	
2314-97-8 Trifluoroiodomethane Identification number(s):	
EC number: 219-014-5 Index number: 602-086-00-0	
	USA USA
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Pr duct n e. Trifluoroiodomethane

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Product name: Trifluoroiodomethane	
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4 First-aid measures	(dd
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 eve contact Rinse opened eve 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.	
Indication of any immediate medical attention and special treatment needed no luturer 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 for Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:	am.
If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide	
Hydrogen fluoride (HF) Hydrogen iodide (HI)	
Hydroğen iodide (HI) ´ Advice for firefighters	
Protective equipment: Wear self-contained respirator.	
Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures Personal processions, protective equipment and emergency procedures	
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.	
	<u> </u>
7 Handling and storage	
Handling Precautions for safe handling	
Keep 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 in the dark	
Store in the dark Store away from oxidizing agents. Further information about storage conditions:	
Keep container tightly sealed.	
Store in cool, dry conditions in well sealed containers. Protect from exposure to light.	
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:	
Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.	
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. Maintain an ergonomically appropriate working environment.	
Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use:	
Use a respirator with multi-purpose combination (US) or type AXBEK (EN 14387) as a backup to engineering controls. Risk assessment should	d be performed to
determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such a CEN (EU).	as NIOSH (USA) or
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 guality. Quality will vary from manufacturer to manufacturer.	
Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses	

Eye protection: Safety glasses Body protection: Protective work clothing.

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9 Physical and chemical properties		
Information on basic physical and cho General Information	nical properties	
Appearance:		
Form: Odor:	Compressed gas Not determined	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range:	Not determined	
Boiling point/Boiling range: _Sublimation temperature / start:	-22.5 °C (-9 °F) Not determined	
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined	
Decomposition temperature:	Not determined	
Auto igniting: Danger of explosion:	Not determined. Not determined.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density at 20 °C (68 °F):	Not determined 2.361 g/cm³ (19.703 lbs/gal)	
Relative density Vapor density	Not determined. Not determined.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water:	Not determined	
Partition coefficient (n-octanol/water). Viscosity:		
dynamic: kinematic:	Not determined. Not determined.	
Other information	No further relevant information available.	
Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions Re Conditions to avoid No further relevant Incompatible materials: Oxidizing agents Light Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Hydrogen iodide (HI)	be avoided: Decomposition will not occur if used and stored acc cts with strong oxidizing agents	cording to specifications.
LD/LC50 values that are relevant for c Skin irritation or corrosion: May cause Eye irritation or corrosion: May cause Sensitization: No sensitizing effects kno Germ cell mutagenicity: Suspected of causing genetic defects. The Registry of Toxic Effects of Chemica Carcinogenicity: No classification data Reproductive toxicity: No effects know Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: The Reg Additional toxicological information: Carcinogenic categories	irritation ritation vn. Substances (RTECS) contains mutation data for this substance. n carcinogenic properties of this material is available from the EF r epeated exposure : No effects known.	PA, IARC, NTP, OSHA or ACGIH. nultiple dose toxicity data for this substance.
12 Ecological information		
	evant information available. nation available. e environment without proper governmental permits. nantities to reach ground water, water course or sewage system.	
13 Disposal considerations		
Waste treatment methods	national regulations to ensure proper disposal.	(Contd. on page 4)

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Uncleaned packagings:

Recommendation: Disposal must be made according to a	official regulations.
14 Transport information	
UN-Number DOT, IMDG, IATA	UN1956
UN proper shipping name DOT IMDG, IATA	Compressed gas, n.o.s. (Trifluoroiodomethane) COMPRESSED GAS, N.O.S. (Trifluoroiodomethane)
Transport hazard class(es) DOT	
Class Label Class Label IMDG, IATA	2.2 2.2 2.2 1A 2.2
Class Label	2.2 2.2
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 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	Νο
UN "Model Regulation":	UN1956, Compressed gas, n.o.s. (Trifluoroiodomethane), 2.2
15 Regulatory information Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled Hazard pictograms GHS04 GHS08	on specific for the substance or mixture 1 in accordance with 29 CFR 1910 (OSHA HCS)

Signal word Warning Hazard statements

Hazard statements H280 Contains gas under pressure; may explode if heated. H341 Suspected of causing genetic defects. Precautionary statements P201 Obtain special instructions before use. P281 Use personal protective equipment as required. P202 Do not handle until all safety precautions have been read and understood. P308+P313 IF exposed or concerned: Get medical advice/attention. P405 Store locked up. P410+P403 Protect from sunlight. Store in a well-ventilated place. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations

P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on 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. Prop 65 - Developmental toxicity, seale Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about 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.

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.

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 09/29/2016 / -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) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport association IATA: International Air Transport Association

Product name: Trifluoroiodomethane

- EINECS: European Inventory of Existing Commercial Chemical Substances 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 UD50: Lethal concentration, 50 percent ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) ACG: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Press. Gas: Gases under pressure: Compressed gas Muta. 2: Germ cell mutagenicity, Hazard Category 2

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USA