



Re	eviewed on 06/08/2010
1 Identification Product identifier	
Product identifier Product name: trans-2-Octenal	
Stock number: A18830	
CAS Number: 2548-87-0	
EC number:	
219-833-8 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
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) 9	28-0789.
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.	
Skin Sens. 1 H317 May cause an allergic skin reaction.	
H227 Combustible liquid. 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	
H227 Combustible liquid. H315 Causes skin irritation.	
H317 May cause an allergic skin reaction.	
Precautionary statements P280 Wear protective gloves. P262 Do not get in eyes, on skin, or on clothing. WHMIS classification	
WHMIS classification B3 - Combustible liquid	
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 FIRE 2 Flammability = 2 Flammability = 2	
REACTIVITY I Physical Házard = 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: 2548-87-0 trans-2-Octenal	
Identification number(s): EC number: 219-833-8	
4 First-aid measures	
2 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	
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.	(Control on page 2)
	(Contd. on page 2) USA

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Product name: trans-2-Octenal		
	(0	Contd. of page 1)
After swallowing Seek medical treatm Information for doctor	ent.	
Most important symptoms and effect	ts, both acute and delayed No further relevant information available.	
malcation of any immediate medical	attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures		
Extinguishing media	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.	
Special hazards arising from the sub	stance or mixture	
If this product is involved in a fire, the for Carbon monoxide and carbon dioxide	ollowing can be released:	
Advice for firefighters Protective equipment:		
Wear self-contained respirator.		
Wear fully protective impervious suit.		
6 Accidental release measures		
Personal precautions, protective equ	lipment and emergency procedures	
Wear protective equipment. Keep unpro Ensure adequate ventilation		
	llow material to be released to the environment without proper governmental permits. nt and cleaning up: Absorb with liguid-binding material (sand, diatomite, acid binders, universal binders, sawdu	ist)
Prevention of secondarv hazards: Ke		
Reference to other sections See Section 7 for information on safe h	andling	
See Section 8 for information on persor See Section 13 for disposal information	nal protection equipment.	
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7 Handling and storage		
Handling Precautions for safe handling		
Handle under dry protective gas. Keep container tightly sealed.		
Store in cool, dry place in tightly closed	containers.	
Ensure good ventilation at the workplace Information about protection against	e. • explosions and fires: Keep ignition sources away.	
Conditions for safe storage, includin	g any incompatibilities	
Storage Requirements to be met by storerool	ms and receptacles: No special requirements.	
Information about storage in one cor Store away from oxidizing agents.	nmon storage facility:	
Store away from air. Further information about storage co	anditione	
Store under dry inert gas.		
This product is air señsitive. Keep container tightly sealed.		
Store in cool, dry conditions in well sea Specific end use(s) No further relevan	led containers. t 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	we have a set of the second a factor. All the second as the	
Components with limit values that re Additional information: No data	quire monitoring at the workplace: Not required.	
Exposure controls		
Personal protective equipment General protective and hygienic mea	sures	
The usual precautionary measures for h Keep away from foodstuffs, beverages Remove all soiled and contaminated clo Wash bando before before before before before	handling chemicals should be followed.	
Remove all soiled and contaminated clo	othing immediately.	
Wash hands before breaks and at the e 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 u	se for their proper condition. y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
I he selection of suitable gloves not onl Eve protection: Safety classes	y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
Eye protection: Safety glasses Body protection: Protective work cloth	ing	
9 Physical and chemical properties	S	
Information on basic physical and ch	nemical properties	
General Information Appearance:		
Form: Color:	Liquid Colorless	
Odor:	Pleasant	
Odor threshold: pH-value:	Not determined. Not determined.	
Change in condition		
Melting point/Melting range: Boiling point/Boiling range:	Not determined 84-86 °C (183-187 °F) (19mm Hg)	
Sublimation temperature / start:	Not determined	
Flash point:	71 °C (160 °F)	
	C)	ontd. on page 3) USA

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Product name: trans-2-Octenal				
		(Contd. of page 2)		
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined			
Decomposition temperature: Auto igniting:	Not determined Not determined			
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.			
Lower:	Not determined			
Upper: Vapor pressure:	Not determined Not determined			
Density at 20 °C (68 °F): Relative density	0.84 g/cm³ (7.01 lbs/gal) Not determined.			
Vapor density Evaporation rate	Not determined. Not determined.			
Solubility in / Miscibility with Water:	Not miscible or difficult to mix			
Partition coefficient (n-octanol/water): Viscosity:	Not determined.			
dynamic: kinematic:	Not determined. Not determined.			
Other information	No further relevant information available.			
10 Stability and reactivity				
Reactivity No information known. Chemical stability Stable under recomm	nended storage conditions			
Thermal decomposition / conditions t	be avoided : Decomposition will not occur if used and stored according to specifications.			
Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials:	information available.			
Oxidizing agents				
Air Hazardous decomposition products: (Carbon monoxide and carbon dioxide			
11 Toxicological information				
Information on toxicological effects				
Acute toxicity: No effects known. LD/LC50 values that are relevant for c				
Skin irritation or corrosion: Causes sk Eye irritation or corrosion: May cause	irritation			
Sensitization: May cause an allergic ski Germ cell mutagenicity: No effects kno	wn.			
Reproductive toxicity: No effects know	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known.	• repeated exposure: No effects known.			
Subacute to chronic toxicity: No effect	ts known.			
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 infe	ormation available.			
Persistence and degradability No furth Bioaccumulative potential No further re	er relevant information available. elevant information available.			
Mobility in soil No further relevant inform Additional ecological information:				
General notes:	General notes: Do not allow material to be released to the environment without proper governmental permits.			
Avoid transfer into the environment. Results of PBT and vPvB assessment				
PBT: Not applicable. vPvB: Not applicable.				
Other adverse effects No further releva	nt information available.			
13 Disposal considerations				
Waste treatment methods Recommendation Consult state, local of	r national regulations to ensure proper disposal.			
Uncleaned packagings: Recommendation: Disposal must be ma				
14 Transport information Not a hazardous material for transportati	on			
UN-Number DOT, IMDG, IATA	None			
UN proper shipping name				
DOT, IMDG, IATA Transport hazard class(es)	None			
DOT, ADR, IMDG, IATA				
Class	None			
Packing group DOT, IMDG, IATA	None			
Environmental hazards:	Not applicable.			
Special precautions for user	Not applicable.	(Contd. on page 4)		
		USA		

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duct name: trans-2-Octenal	
Transport in bulk according to Annex II of MARPOL73/78	(Contd. of pag
Transport/Additional information:	Not dangerous according to the above specifications.
DOT	
Marine Pollutant (DOT):	No
Regulatory information Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled in Hazard pictograms	specific for the substance or mixture accordance with 29 CFR 1910 (OSHA HCS)
All components of this product are listed on the Canadian Do SARA Section 313 (specific toxic chemical listings) Subs California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not Information about limitation of use: For use only by techni Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to th	stance is not listed. s not listed. isted. ically qualified individuals. s ne REACH Regulations (EC) No. 1907/2006. Substance is not listed. d Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t
information to ensure proper use and protect the health and s conformance with this Material Safety Data Sheet, or in comb	t to other information gathered by them, and should make independent judgement of suitability of this safety of employees. This information is furnished without warranty, and any use of the product not i bination 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: Règlement international concernant le transport des marchandises dangere IATA-DGR: Dangerous Goods Regulations by the "International Air Transport As ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (IMDG: International Air Transportation ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (IMDG: International Air Transportation EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American 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 LD50: Lethal dose, 50 percent VPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Air Sefery for Research on Cancer EPA: Environmental Protection Agency (USA)	euses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ssociation" (IATA) ' (ICAO)