



1 Identification Product identifier	
Product identifier Product name: <mark>3-Chloro-1-phenyl-1-propyne</mark>	
Stock number: H53510 CAS Number:	
3355-31-5 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:	700
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0 2 Hazard(s) identification	1789.
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.	
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	
GHS06	
Signal word Danger Hazard statements H301 Toxic if swallowed.	
H315 Causes skin irritation. H319 Causes serious eve 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. 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, if present and easy to do. Continue rinsing	,
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	<i>.</i>
WHMIS classification D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects	
Classification system HMIS ratings (scale 0-4)	
Health (acute effects) = 2	
File File File File REACTIVITY 1 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: 3355-31-5 3-Chloro-1-phenyl-1-propyne	
4 First-aid measures	
Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
	(Contd. on page 2)

Safety Data Sheet per OSHA HazCom 2012

Product name: 3-Chloro-1-phenvl-1-propyne

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Product name: 3-Chloro-1-phenyl-1-	propyne	
After swallowing Seek medical treatment Information for doctor	r several minutes under running water. Then consult a doctor.	(Contd. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon Special hazards arising from the subs If this product is involved in a fire, the foll Carbon monoxide and carbon dioxide Hydrogen chloride (HCl) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. tance or mixture lowing can be released:	
6 Accidental release measures Personal precautions, protective equi Wear protective equipment. Keep unprof Ensure adequate ventilation Environmental precautions: Do not allo Methods and material for containment Absorb with liquid-binding material (sand Dispose of contaminated material as was Ensure adequate ventilation. Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe han See Section 8 for information on persona See Section 13 for disposal information.	tected persons away. ow material to be released to the environment without proper governmental permits. t and cleaning up: d, diatomite, acid binders, universal binders, sawdust). ste according to section 13. special measures required.	
Conditions for safe storage, including Storage	explosions and fires: No information known. any incompatibilities as and receptacles: No special requirements. amon storage facility: Store away from oxidizing agents. aditions: ad containers.	
Control parameters Components with limit values that req Additional information: No data Exposure controls Personal protective equipment General protective equipment General protective and hygienic meas The usual precautionary measures for ha Keep away from foodstuffs, beverages a Remove all soiled and contaminated clot Wash hands before breaks and at the en Avoid contact with the eyes and skin. Maintain an ergonomically appropriate w Breathing equipment: Use suitable resp Protection of hands:	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. puire monitoring at the workplace: Not required. sures andling chemicals should be followed. ind feed. thing immediately. at of work. vorking environment. pirator when high concentrations are present. e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) Not determined	
9 Physical and chemical properties	-	
Information on basic physical and che General Information		
Appearance: Form: Color: Odor: Odor threshold:	Liquid Colorless Not determined Not determined.	
pH-value:	Not determined.	
		(Contd. on page 3) USA

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Product name: 3-Chloro-1-phenyl-1-propyne		
		(Contd. of page 2)
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	104 °C (219 °F) Not applicable. Not determined Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined Not determined Not determined 1.095 g/cm ³ (9.138 lbs/gal) Not determined. Not determined. Not determined.	
Water: Partition coefficient (n-octanol/water Viscosity:		
dynamic: kinematic: Other information	Not determined. Not determined. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions No Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen chloride (HCI)	to be avoided: Decomposition will not occur if used and stored according to specifications. o dangerous reactions known nt information available. nts	
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 effe	skin irritation. erious eye irritation. nown. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. <i>- repeated exposure:</i> No effects known. <i>- single exposure:</i> May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No further Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow material to be released to Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable.	ther relevant information available. relevant information available. rmation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system.	
vPvB: Not applicable. Other adverse effects No further relev	rant information available.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. nade according to official regulations.	
14 Transport information Not a hazardous material for transporta	tion.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	(Contd on page 4)
		(Contd. on page 4)

(Contd. on page 4)

dust name 2 Chlava 1 nhanul 1 nuanuna	
duct name: 3-Chloro-1-phenyl-1-propyne	
Transport hazard class(es)	(Contd. of pa
DOT, ADR, IMDG, IATA	
Class	None
Packing group DOT, IMDG, IATA	Maria
	None
Environmental hazards: Special precautions for user	Not applicable. Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and t	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT	
Marine Pollutant (DOT):	No
Regulatory information	
Safety, health and environmental regulations/legislation speci GHS label elements The product is classified and labeled in account Hazard pictograms	i fic for the substance or mixture ordance with 29 CFR 1910 (OSHA HCS)
GHS06	
Signal word Danger	
Hazard statements	
H301 Toxic if swallowed. H315 Causes skin irritation.	
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P305+P351+P338 IF IN EYES: Rinse cautiously with water for sev	veral minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up. P501 Dispose of contents/container in accordance wi	ith local/regional/national/international regulations.
National regulations	
This product is not listed in the U.S. Environmental Protection Age to research and development only. This product must be used by c	ency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restr 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 formulatio	or directly under the supervision of a technically qualified individúal as defined by TSCA. This ons for commercial purposes.
SARA Section 313 (specific toxic chemical listings) Substance California Proposition 65	is not listed.
Prop 65 - Chemicals known to cause cancer Substance is not list	isted.
Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed	4
Prop 65 - Developmental toxicity. male Substance is not listed.	
Information about limitation of use: For use only by technically of	qualified individuals.
Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REA	ACH Regulations (FC) No. 1907/2006. Substance is not listed
	ACH Regulations (EC) No. 1907/2006. Substance is not listed. nex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
market and use must be observed. Substance is not listed.	
Annex XIV of the REACH Regulations (regulation Authorisation	1 for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Assessment ha	as not been carried out.
Other information Employers should use this information only as a supplement to oth	ner information gathered by them, and should make independent judgement of suitability of thi
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
	on 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: Reglement international concernant le transport des marchandises dangereuses pa IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Associatio	ar chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) on" (IATA)
ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)	
IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation	
IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent	
Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses pa IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Associatio ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) IMDG: International Antime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (Canada) LCSO: Lethal concentration, 50 percent LDSO: Lethal dose, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA)	
Wrinis, Workpiece razarouds waterials information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent vPvB: 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)	
Writins, Workplace raziance Statement Simon and System (Canada) LCS0: Lethal concentration, 50 percent LDS0: Lethal dose, 50 percent VP/B: 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 Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	