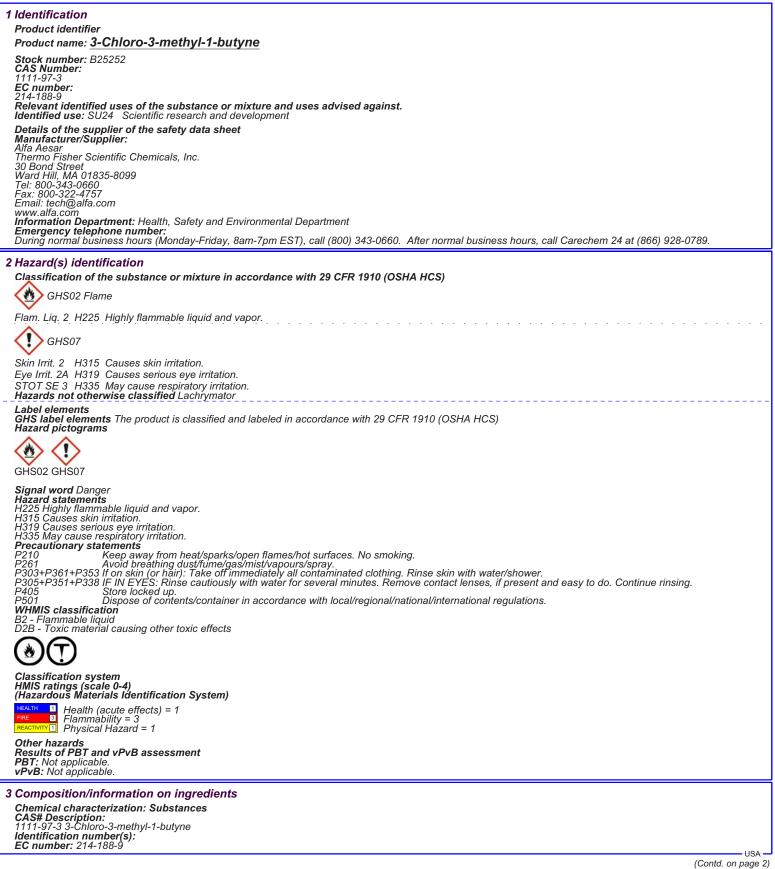


Safety Data Sheet per OSHA HazCom 2012



(Contd. of page 1) 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 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 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 Extinguishing media Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water. 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 Hydrogen chloride (HCl) 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 Ensure adequate ventilation Keep away from ignition sources Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. 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 Handling Precautions for safe handling Keep container tightly sealed. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Keep ignition sources away. Keep ignition sources away. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Refrigerate Information about storage in one common storage facility: Protect from heat. Further information about storage conditions: Keep container tightly sealed. Refrigerate 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 equipment 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 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. **Eye protection:** Safety glasses **Body protection:** Protective work clothing.

USA (Contd. on page 3)

Product name: 3-Chloro-3-methyl-1-butyne

(Contd. of page 2)

		(Contd. of page 2)	
9 Physical and chemical properties	S		
Information on basic physical and ch General Information Appearance:	nemical properties		
Form: Color:	Liquid Colorless Decorrighta		
Odor: Odor threshold:	Recognizable Not determined.		
pH-value:	Not determined.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 73-75 °C (163-167 °F) Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	4 °C (39 °F) Not determined. Not determined Not determined Not determined.		
Danger of explosion: Explosion limits:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.		
Lower: Upper:	Not determined Not determined		
Vapor pressure: Density at 20 °C (68 °F):	Not determined 0.913 g/cm ³ (7.619 lbs/gal)		
Relative density	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	Not determined. No further relevant information available.		
Incompatible materials: Oxidizing agents Heavy metal powders Heat Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen chloride (HCl)			
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. This product is a lachrymator. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects 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 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. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant information available.			
13 Disposal considerations			
Waste treatment methods			
Recommenuation Consult state, room	or national regulations to ensure proper disposal.	(Contd. on page 4)	

Product name: 3-Chloro-3-methyl-1-butyne

(Contd. of page 3)

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butyne), 3, II 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms <i>within the product of the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)</i> <i>Hazard pictograms within the product of the product of the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)</i> <i>Hazard statements Signal word Danger</i> <i>Hazard statements H225 Highly flammable liquid and vapor.</i> <i>H315 Causes skin initiation.</i> <i>H319 Causes serious eye irritation.</i> <i>H319 Causes serious eye irritation.</i> <i>H335 May cause respiratory irritation.</i> <i>Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces.</i> No smoking. <i>P261 Avoid breathing dust/tume/gas/mist/vapours/spray.</i> <i>P303+P361+P353 I for skin (or hair): Take off immediately all contaminated clothing. Rines skin with water/shower.</i> <i>P303+P361+P338 IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</i> <i>P405 Store locked up.</i> <i>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</i> <i>All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.</i> <i>All components of this</i>	Uncleaned packagings: Recommendation: Disposal must be made according to	official regulations.
DOT, IMDG, IATA UN1993 UN proper shipping name DOT Flammable liquids, n.o.s. (3-Chloro-3-methyl-1-bulyne) FLAMMABLE LIQUID, N.O.S. (3-Chloro-3-methyl-1-bulyne) FLAMMABLE	14 Transport information	
UN proper shipping name DOT Flammable liquids, n.o.s. (3-Chloro-3-methyl-1-butyme) FLAMMABLE LIQUID, N.O.S. (3-Chloro-3-methyl-1-butyme) Transport hazard class(es) OT OT Image: Chloro S-methyl-1-butyme) Olass 3 Flammable liquids. Class 3 Flammable liquids. Transport Mazards: Not applicable. Transport Mazards: Not applicable. Transport Mazards: Not applicable. Transport Mazards (DOT): No UN Model Regulation?: UN 1993, Flammable liquids, n.o.s., special provision 6400 (3-Chloro-3-methyl-1- butyne), 3 // Signal word Danger Statistic classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Mazard satements Statis		UN1993
Transport hazard class(es) DOT OC Class 3 Label 3 Class 3 Class 3 IMDG, IATA 3 OC 3 Class 3 Image: Class 3 Class 3 Class 3 Class 3 Special procession 1 DoT, IMGO, IATA 1 Environmental hazards: Not applicable. Special proceations for user Warning: Flammable liquids. Transport In bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable. Transport/Additional Information: DOT Marine Pollutant (DOT): No UN "Model Regulation": UN 1993, Flammable liquids. n.o.s., special provision 640D (3-Chlore-3-methyl-1-bulyne), 3, II 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GetHs label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms Signal word Danger Cheop away from head/sparks/open fameshot surfaces. No smoking. Product is classified and labeled in accordance with to Serveral many server regulations. </th <th>UN proper shipping name</th> <th></th>	UN proper shipping name	
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Secial provision full formation Secial provision full of the substance or mixture Secial provision full and vapor. History full formation Seciel provision full and vapor. Histore full formation Seciel provise full formation Seciel fo	Transport hazard class(es)	
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INDEC, IATA Class 3 Eabel 3 Packing group II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids Transport Molfs (ATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids TransportAdditional information: UN OOT Marine Pollutant (DOT): No UN "Model Regulation": UN "Model Regulation": UN1993, Flammable liquids, n.o.s., special provision 640D (3-Chloro-3-methyl-1-but/me), 3, II 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS Babe lements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms Signal word Danger Hazard statements Avoid breathing dust/imeigas/mist/sopen flames/hot surfaces. No smoking. P201 Keps away from heat/sparks/open flames/hot surfaces. No smoking. P201 Keps away from heat/sparks/open flames/hot surfaces. No smoking. P201 May Statements H225 Height Harmable liquid and vapor. H335 Gaucs	Class	3 (F1) Flammable liquids
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Packing group DOT, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids Transport in bulk according to Annex II of MARPOL73/76 and the IBC Code Not applicable. Transport/Additional information: DOT DOT No Marine Pollutant (DOT): No UN "Model Regulation": UN1993, Flammable liquids, n.o.s., special provision 640D (3-Chloro-3-methyl-1- butyne), 3, II 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms		
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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation": UN1993, Flammable liquids, n.o.s., special provision 640D (3-Chloro-3-methyl-1- butyne), 3, II 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms Image: Comparison of the substance or mixture GHS 20 GHS07 Signal word Danger Hazard statements H225 Highly flammable liquid and vapor. H315 Causes skin initiation. H335 May cause respiratory imitation. H335 May cause serimatory imitation. H335 May cause serimatory imitation. H336 Gauses skin instation. H337 Gauses serimous y transments P201 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261 P261 P261 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P261 P261 P261 No kin (or hari). Take off immediately al contaminated clothing. Rinse skin with water/shower. P305+P351+P333 If on skin (or hari). Take off immediately al contaminated clothing. Rinse skin with water/shower. P305+P351+P333 If on skin (or hari). Take off immediately al contaminated clothing. Rinse skin with water/shower. P305+P351+P333 If on skin (or hari). Take off immediately al contaminated clothing. Rinse skin with water/shower. P305+P351+P333 If on skin (or hari). Take off immediately al contaminated clothing. Rinse skin with water/shower. P305+P351+P333 If on skin (or hari). Take off immediately al contaminated clothing. Rinse ski	Environmental hazards:	Not applicable.
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Dor' Marine Pollutant (DOT): No UN "Model Regulation": UN1993, Flammable liquids, n.o.s., special provision 640D (3-Chloro-3-methyl-1- butyne), 3, II 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements. The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms <i>www www wwww www www www</i>		3/78 and the IBC Code Not applicable.
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rod og - Unemicais known to cause cancer Substance is not listed.	Safety, health and environmental regulations/legislati GHS label elements The product is classified and labele Hazard pictograms GHS02 GHS07 Signal word Danger Hazard statements H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H315 Causes skin irritation. H315 Causes serious eye irritation. H325 Highly flammable liquid and vapor. H315 Causes serious eye irritation. H326 Causes serious eye irritation. H319 Causes serious eye irritation. H326 Causes Serious eye irritation. H327 Causes Serious eye irritation. H326 Causes Serious eye irritation. H327 Causes Serious eye eye irritation. H327 Causes Serious eye irritation. H327 Causes Serious eye irritation. H327 Causes Serious eye irritation. H327 Causes Serious eye eye eye eye eye eye eye eye eye ey	mes/hot surfaces. No smoking. apours/spray. by all contaminated clothing. Rinse skin with water/shower. ter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. rdance with local/regional/national/international regulations. ronmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. n Non-Domestic Substances List (NDSL). Substance is not listed.

Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitations 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. 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 11/23/2015 / -Abbreviations and acronyms: RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

Safety Data Sheet per OSHA HazCom 2012

Product name: 3-Chloro-3-methyl-1-butyne

- ICAO: 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 Marilime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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: Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UDS0: Lethal dose, 50 percent UPVB: very Persistent advery Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) LR60: International Protection Agency (USA)

(Contd. of page 4)

USA