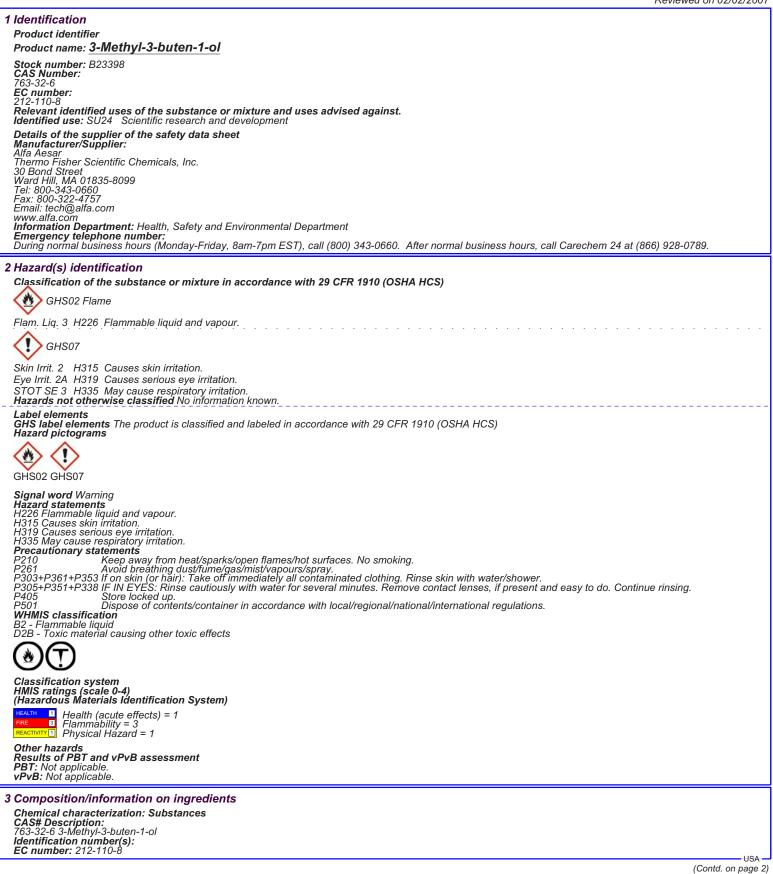


Safety Data Sheet per OSHA HazCom 2012



(Contd. of page 1)

	(Contd. of page 1)
<i>4 First-aid measures</i> <i>Description of first aid measures</i> <i>After inhalation</i> <i>Supply fresh air. If required, provide artificial respiration. Keep patient warm.</i> <i>Seek immediate medical advice.</i>	
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 Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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 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 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	
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 tightly sealed. Store in cool, dry place in tightly closed containers. 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. 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.	
Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves	
The 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.	
	(Contd. on page 3)

Page 3/5 Printing date 11/23/2015 Reviewed on 02/02/2007

(Contd. of page 2)

9 Physical and chemical properties Information on basic physical and chemical properties General Information Appendix Code: Decision: Decision: Plange in condition Model elemined Oddr: Inseabold: Not determined. Change in condition Billing point decing range: Sublimited in temperature / start. Not determined. Sublimited interperature: Not determined. Plange in condition Plange point: Product is not explosion: Product is not explosion: Product is not explosion: Product is not explosion: Upper: Not determined Upper: Not determined. Upper: Not determined. Upper: N	td. of page 2)
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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: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals: Brain and Coverings - other degenerative changes. Blood - changes in other cell count (unspecified) Kidney, Ureter, Bladder - other changes in urine composition. Immunological 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. Bioac concurrental No further relevant information available. Persistence and degradability No further relevant information available. Mobility in soil No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: Mobility in soil No further relevant information available. Additional ecological information: Mobility in soil No further relevant information available. Additional ecological information: Mobility in soil No further relevant information available. Additional ecological information: General notes:	
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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. 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	
Recommendation Consult state, local or national regulations to ensure proper disposal.	
Uncleaned packagings:	
Recommendation: Disposal must be made according to official regulations.	
	USA d on page 4

(Contd. of page 3)

Transport information	
UN-Number DOT, IMDG, IATA	UN1987
UN proper shipping name	011307
DOT IMDG, IATA	Alcohols, n.o.s. (3-Methyl-3-buten-1-ol) ALCOHOLS, N.O.S. (3-Methyl-3-buten-1-ol)
Transport hazard class(es)	ALCOHOLS, N.O.S. (S-INEITIYI-S-IDILEIT-T-01)
DOT	
A	
Class	3 Flammable liquids.
Label	3
Class Label	3 (F1) Flammable liquids
ĪMDĞ, IATA	
Class	3 Flammable liquids. 3
Label Packing group	3
Packing group DOT, IMDG, IATA	111
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Transport in bulk according to Annex II of MARPOL73/78 a	nd the IBC Code Not applicable.
Transport/Additional information: DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1987, Alcohols, n.o.s. (3-Methyl-3-buten-1-ol), 3, III
Regulatory information Safety, health and environmental regulations/legislation sp GHS label elements The product is classified and labeled in a Hazard pictograms GHS02 GHS07 Signal word Warning Hazard statements H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes skin irritation.	pecific for the substance or mixture ccordance with 29 CFR 1910 (OSHA HCS)
Safety, health and environmental regulations/legislation sp GHS label elements The product is classified and labeled in a Hazard pictograms GHS02 GHS07 Signal word Warning Hazard statements H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P210 Keep away from heat/sparks/open flames/h P261 Avoid breathing dust/fume/gas/mist/vapours P303+P361+P353 If on skin (or hair): Take off immediately all P305+P351+P338 IF IN EYES: Rinse cautiously with water for P405 Store locked up. P501 Dispose of contents/container in accordance National regulations All components of this product are listed in the U.S. Environme All components of this product are listed on the Canadian Dom SARA Section 313 (specific toxic chemical listings) Substa California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is n	ot surfaces. No smoking. s/spray. contaminated clothing. Rinse skin with water/shower. several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. e with local/regional/national/international regulations. ental Protection Agency Toxic Substances Control Act Chemical substance Inventory. estic Substances List (DSL). nce is not listed.
Safety, health and environmental regulations/legislation sp GHS label elements The product is classified and labeled in a Hazard pictograms GHS02 GHS07 Signal word Warning Hazard statements H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H319 May cause respiratory irritation. H335 May cause respiratory irritation. H340 May cause respiratory irritation. Precautionary statements P210 Keep away from heat/sparks/open flames/h P261 Avoid breathing dust/fume/gas/mist/vapours P303+P361+P353 If on skin (or hair): Take off immediately all P305+P351+P38 IF IN EYES: Rinse cautiously with water for P405 Store locked up. P501 Dispose of contents/container in accordance. National regulations All components of this product are listed in the U.S. Environmed All components of this product are listed on the Canadian Dom SARA Section 313 (specific toxic chemical listings) Substa California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technica Other regulations, limitations and prohibitive regulations.	ot surfaces. No smoking. s/spray. contaminated clothing. Rinse skin with water/shower. • several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. • with local/regional/national/international regulations. • mal Protection Agency Toxic Substances Control Act Chemical substance Inventory. • estic Substances List (DSL). • nce is not listed. • ot listed. • ot listed. • al. • ally qualified individuals. REACH Regulations (EC) No. 1907/2006. Substance is not listed. • Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
Safety, health and environmental regulations/legislation sp GHS label elements The product is classified and labeled in a Hazard pictograms	ot surfaces. No smoking. s/spray. contaminated clothing. Rinse skin with water/shower. "several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. e with local/regional/national/international regulations. ental Protection Agency Toxic Substances Control Act Chemical substance Inventory. testic Substances List (DSL). nce is not listed. ot listed. sted. sted. ally qualified individuals. REACH Regulations (EC) No. 1907/2006. Substance is not listed. Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on tion for use) Substance is not listed. ti has not been carried out.
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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) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

Page 5/5 Printing date 11/23/2015 Reviewed on 02/02/2007

(Contd. of page 4)

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