



1 Identification	
Product identifier	
Product name: TB Solution-I	
Stock number: J62568 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	
Alia Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
30 Dona 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) The product is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.	
Label elements GHS label elements Not applicable Hazard pictograms Not applicable	
Signal word Not applicable Hazard statements Not applicable	
WHMIS classification Not controlled Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
$\begin{array}{c c} HEALTH & 1 \\ \hline Health (acute effects) = 1 \\ \hline FIRE & 1 \\ \hline Flammability = 1 \end{array}$	
REACTIVITY Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment PBT: Net engligeble	
PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Mixtures Dangerous components: Not applicable Additional information None known.	
Non-Hazardous Ingredients 7447-40-7 Potassium chloride	1.86%
	1.00 /0
4 First-aid measures Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
Supply fresh and in required, provide anticial respiration. Reep 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.	I
After swallowing Seek medical treatment	
After swallowing Seek medical tréatment. Information for doctor	
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*rersonal precautions, protective equipment and emergency procedures* Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation *Environmental precautions:* Do not allow product to reach sewage system or any water course.

## Product name: TB Solution-I

(Contd. of page 1) **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.

7 Handling and storage			
Handling Precautions for safe handling			
Keep container tightly sealed.			
Store in cool, dry place in tightly closed o	containers.		
Information about protection against e	explosions and fires: No information known.		
Conditions for safe storage, including	any incompatibilities		
Storage			
Information about storage in one com	s and receptacles: No special requirements.		
Water reacts with many metals to give h	inon storage racing. drogen often violently. Water is also incompatible with many reactive organic and inorganic chemicals		
Further information about storage cor	rdrogen, offen violently. Water is also incompatible with many reactive organic and inorganic chemicals. Inditions:		
Keep container tightly sealed.			
Store in cool, dry conditions in well seale Specific end use(s) No further relevant	d containers.		
Specific end use(s) No futurer relevant			
8 Exposure controls/personal prote	ction		
Additional information about design o			
Properly operating chemical fume hood of	recommen systems. lesigned for hazardous chemicals and having an average face velocity of at least 100 feet per minute.		
Control parameters			
Components with limit values that req	uire monitoring at the workplace:		
The product does not contain any releval	nt quantities of materials with critical values that have to be monitored at the workplace.		
Additional information: No datá			
Exposure controls			
Personal protective equipment			
General protective and hygienic meas The usual precautionary measures for ha			
Keep away from foodsfuffs, beverages a	nd feĕd		
Remove all soiled and contaminated clot	hing immediately.		
Wash hands before breaks and at the en	d of work.		
Maintain an ergonomically appropriate w	orking environment. pirator when high concentrations are present.		
Protection of hands:			
Impervious gloves			
Check protective gloves prior to each use	e for their proper condition.		
Penetration time of glove material (in I	depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.		
Eye protection: Safety glasses	initial si Not determined		
Body protection: Protective work clothin	ng.		
	-		
9 Physical and chemical properties			
Information on basic physical and che	emical properties		
General Information			
Appearance: Form:	Liquid		
Odor:	Not determined		
Odor threshold:	Not determined.		
pH-value:	Not determined.		
Change in condition			
Melting point/Melting range:	Not determined		
Boiling point/Boiling range:	Not determined		
Sublimation temperature / start:	Not determined		
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined		
Decomposition temperature:	Not determined Not determined		
Auto igniting:	Product is not selfigniting.		
Danger of explosion:	Not determined.		
Danger of explosion: Explosion limits:			
Lower:	Not determined		
Upper: Vapor pressure at 20 °C (68 °F):	Not determined 23 hPa (17 mm Hg)		
Density:	Not determined		
Relative density	Not determined.		
Vapor density	Not determined,		
Evaporation rate Solubility in / Miscibility with	Not determined.		
Water:	Not miscible or difficult to mix		
Partition coefficient (n-octanol/water):			
Viscosity:			
dynamic: kinematic:	Not determined. Not determined.		
kinematic:	Not determined.		
Solvent content: Organic solvents:	0.0 %		
Other information	0.0 % No further relevant information available.		

## 10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.

(Contd. on page 3) USA

Product name: TB Solution-I	
Possibility of hazardous reactions Water reacts violently with alkali metals. Water reacts with many metals to give hydrogen, often violently. Water is also in Conditions to avoid No further relevant information available. Incompatible materials: No information known. Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOx) Calcium oxide Nitrogen oxides Hydrogen chloride (HCI) Potassium oxide	(Contd. of page 2) compatible with many reactive organic and inorganic chemicals.
<ul> <li>11 Toxicological information         Information on toxicological effects             Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) of             LD/LC50 values that are relevant for classification: No data             Skin irritation or corrosion: May cause irritation             Eye irritation or corrosion: May cause irritation             Sensitization: No sensitizing effects known.             Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (             Carcinogenicity:             EPA-D: Not classifiable as to human carcinogen: Inadequate human and anin             ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to             The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorig             Reproductive toxicity: The Registry of Toxic Effects of Chemical Substances (RSpecific target organ system toxicity - repeated exposure: No effects known.             Subcrific target organ system toxicity - single exposure: No effects known.             Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (             Reproductive toxicity: The Registry of Toxic Effects of Chemical Substances (             Substances (</li></ul>	(RTECS) contains mutation data for components in this product. mal evidence of carcinogenicity or no data are available. classify the agent in terms of its carcinogenicity in humans and/or animals. genic and/or carcinogenic and/or neoplastic data for components in this product. RTECS) contains reproductive data for components in this product. Inces (RTECS) contains multiple dose toxicity data for this substance.
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 undiluted product or large quantities to reach ground water, water co 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.	ourse or sewage system.
<b>13 Disposal considerations</b> Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper di Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	ïsposal.
14 Transport information	
UN-Number	Not applicable
UN proper shipping name	Not applicable
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA	Not applicable
Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards:	No
	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
Transport/Additional information:	
	No
15 Regulatory information Safety, health and environmental regulations/legislation specific for the sub GHS label elements Not applicable Hazard pictograms Not applicable Hazard statements Not applicable National regulations All components of this product are listed in the U.S. Environmental Protection Age All components of this product are listed on the Canadian Domestic Substances I	

(Contd. on page 4)

Product name: TB Solution-I (Contd. of page (C	Neviewed of	00/00/2014
SARA Section 313 (specific toxic chemical listings)         None of the ingredients are listed.         Prop 65 - Chemicals known to cause cancer         None of the ingredients are listed.         Prop 65 - Developmental toxicity         None of the ingredients are listed.         Prop 65 - Developmental toxicity, female         None of the ingredients are listed.         Prop 65 - Developmental toxicity, female         None of the ingredients are listed.         Prop 65 - Developmental toxicity, male         None of the ingredients are listed.         Prop 65 - Developmental toxicity, male         None of the ingredients are 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.         None of the ingredients is listed.         None of the ingredients is listed.         Annex XV of the REACH Regulations (regulations is listed).         None of the ingredients is listed.         Annex XV of the REACH Regulations (regulations or estricitype)))         None of the ingredients	Product name: TB Solution-I	
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market and use must be observed.       Critical Criti	None of the ingredients are listed.	
Annex XIV of the REACH Regulations (requiring Authorisation for use)         None of the ingredients is listed.         Chemical safety assessment: A Chemical Safety Assessment has not been carried out. <b>16 Other information</b> 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 only as a supplement to other information gathered by them, and should make independent judgement of suitability of 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 11/24/2015 / - Abbreviations and acronyms:         ADR: Accord europeens use Ir bransportation         EWECS: European Internettry of Existing Commercial Chemical Substances         European Internettry of Existing Commercial Chemical Substances         ELIVECS: European Internets Identification System (Canada)         LCS: Lethal concentration (USA)         WHMIS: Workplace Hazardous Materials Information System (Canada)         LCS0: Lethal cose, 50 percent         Very: very Persistent and very Bioaccumulative         MC: Anterican Conference of Governmental Industrial Hygienists (USA)         OPTA: Comparing Conference of Governmental Industrial Hygienists (USA)         DSD: Lethal cobes, 50 percent         LCS0: L	The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, plac market and use must be observed.	ing on the
None of the ingredients is listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.  If 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 11/24/2015 / - Abbreviations and accomyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Society) HMIS: Hazardous Materials Information System (Canada) LCSD: Lethal concernition, Sof percent DDG: Lethal cose, 50 percent DDG: Lethal coce, 50 percent DDG: Letha	None of the ingredients is listed.	
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.  If 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 11/24/2015 / - Abbreviations and acronyms: ACR: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DT: US Department of Transportation EUNECS: European List of Notified Chemical Substances EUNCS: Substances EUNCS: Substances E	Annex XIV of the REACH Regulations (requiring Authorisation for use)	
<ul> <li>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.     </li> <li>Department issuing SDS: Global Marketing Department         Data of preparation / last revision 11/24/2015 / -</li></ul>		
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 11/24/2015 / - 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) DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances ELINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (Canada) LC50: Lethal conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) NTP: National Toxicology Program (USA) NTP: National Toxicology Program (USA)	Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) 	Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitabilit information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the produ- conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. <b>Department issuing SDS:</b> Global Marketing Department <b>Date of preparation / last revision 1</b> /24/2015 / - <b>Abbreviations and acronyms:</b> ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Liventory of Existing Commercial Chemical Substances ELINCS: European Liventory of Existing Commercial Chemical Society) HMIS: Workplace Hazardous Materials Information System (Canada) LESO: Leuropean Liventory, 50 percent	γ of this uct not in
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