Franklin International

Safety Data Sheet

TB Fast Set Construction Adhesive

Section 1. Identification

GHS product identifier	: TB Fast Set Construction Adhesive
Product type	: Liquid.
CAS #	: mixture
Address	: Franklin International 2020 Bruck Street Columbus OH 43207
Contact person	: Franklin Technical Services
Telephone	: (800) 877-4583
In case of emergency	: Franklin Security (614) 445-1300
Reference number	: 3217
Product code	: 4222
Date of revision	: 6/18/2015.
Print date	: 6/18/2015.
Chemtrec (24 Hour)	: (800) 424 - 9300
Chemtrec International	: (703) 527 - 3887
Chemical family	: Adhesive.

Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

Section 2. Hazards	Section 2. Hazards identification							
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).							
Classification of the substance or mixture	 ACUTE TOXICITY (inhalation) - Category 4 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (nose/sinuses) (inhalation) - Category 2 							
GHS label elements								
Hazard pictograms								
Signal word	: Danger							
Hazard statements	 Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure if inhaled. (nose/ sinuses) 							

Section 2. Hazards identification

Precautionary statements	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Wear protective gloves. In case of inadequate ventilation wear respiratory protection. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Contaminated work clothing should not be allowed out of the workplace.
Response	: Get medical attention if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise Classified	: None known.

Section 3. Composition/information on ingredients

Hazardous ingredients

United States

Name	CAS number	%
methylenediphenyl diisocyanate	26447-40-5	1 - 5
4,4'-methylenediphenyl diisocyanate	101-68-8	1 - 5
Distillates (petroleum), hydrotreated light	64742-47-8	1 - 5

Canada

Name	CAS number	%
methylenediphenyl diisocyanate	26447-40-5	1 - 5
4,4'-methylenediphenyl diisocyanate	101-68-8	1 - 5
Distillates (petroleum), hydrotreated light	64742-47-8	1 - 5

Mexico					Classification				
Name CAS U number		UN number	%	IDLH	н	F	R	Special	
4,4'-methylenediphenyl diisocyanate	101-68-8	Not available.	1 - 5	75 mg/m³	2	1	0	-	
Distillates (petroleum), hydrotreated light	64742-47-8	UN1993	1 - 5	-	0	3	0	-	

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necess	ary first aid measures
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health Eye contact	: No known significant effects or critical hazards.
Inhalation	 Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
<u> Over-exposure signs/s</u>	symptoms
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: irritation redness
	: No specific data.

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Section 4. First aid measures **Specific treatments** : No specific treatment. **Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to

before removing it, or wear gloves.

give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

See toxicological information (Section 11)

Section 5. Fire-fight	ing measures
Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protect	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling : Put on appropriate personal protective equipment (see Section 8). Persons with a **Protective measures** history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is Advice on general ÷. handled, stored and processed. Workers should wash hands and face before eating, occupational hygiene drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Conditions for safe storage, : Store between the following temperatures: -4.5061 to 40.556°C (23.9 to 105°F). Store in accordance with local regulations. Store in original container protected from direct including any sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see incompatibilities Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

United States

Occupational exposure limits

Ingredient name	Exposure limits
4,4'-methylenediphenyl diisocyanate	ACGIH TLV (United States, 4/2014).
	TWA: 0.005 ppm 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	CEIL: 0.02 ppm
	CEIL: 0.2 mg/m ³
	NIOSH REL (United States, 10/2013).
	TWA: 0.05 mg/m³ 10 hours.
	TWA: 0.005 ppm 10 hours.
	CEIL: 0.2 mg/m³ 10 minutes.
	CEIL: 0.02 ppm 10 minutes.
	OSHA PEL (United States, 2/2013).
	CEIL: 0.02 ppm
	CEIL: 0.2 mg/m ³
Distillates (petroleum), hydrotreated light	ACGIH TLV (United States, 4/2014). Absorbed through skin.
	TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours.

Canada

Occupational exposure limits		TWA	TWA (8 hours)			STEL (15 mins)			Ceiling		
Ingredient	List name	ppm	mg/ m³	Other	ppm	mg/ m³	Other	ppm	mg/ m³	Other	Notations
methylenediphenyl diisocyanate	BC 4/2014	0.005	-	-	-	-	-	0.01	-	-	
	ON 1/2013	0.005	-	-	-	-	-	0.02	-	-	
4,4'-methylenediphenyl diisocyanate	US ACGIH 4/2014	0.005	-	-	-	-	-	-	-	-	
	AB 4/2009	0.005	0.05	-	-	-	-	-	-	-	
	BC 4/2014	0.005	-	-	-	-	-	0.01	-	-	[1][3]
	ON 1/2013	0.005	-	-	-	-	-	-	-	-	
	QC 1/2014	0.005	0.051	-	-	-	-	-	-	-	[3]
Distillates (petroleum), hydrotreated light, as total hydrocarbon vapor	US ACGIH 4/2014	-	200	-	-	-	-	-	-	-	[1]
Distillates (petroleum), hydrotreated light, as total hydrocarbon vapour	AB 4/2009	-	200	-	-	-	-	-	-	-	[1]
3	BC 4/2014	-	200	-	-	-	-	-	-	-	[1] [A]
Distillates (petroleum), hydrotreated	ON 1/2013	-	200	-	-	-	-	-	-	-	[1]
Date of issue/Date of revision : 6/	ate of issue/Date of revision : 6/18/2015.						Versi	on:4	5/		

TB Fast Set Construction Adhesive											
Section 8. Exposure controls/personal protection											
light											

[1]Absorbed through skin. [3]Skin sensitization **Notes:** [A]as total hydrocarbon vapour

<u>Mexico</u>

Occupational exposure limits

Ingredient E	Exposure limits
Distillates (petroleum), hydrotreated light	NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 0.005 ppm 8 hours. LMPE-PPT: 0.051 mg/m ³ 8 hours. ACGIH TLV (United States, 4/2014). Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours.

Consult local authorities for acceptable exposure limits.

Appropriate engineering controls		Use process enclosures, local exhaust ventilation or worker exposure to airborne contaminants below any
Environmental exposure controls	ney comply with the requirements	process equipment should be checked to ensure of environmental protection legislation. In some ngineering modifications to the process equipment ons to acceptable levels.
Individual protection measured		
Hygiene measures	ating, smoking and using the lava ppropriate techniques should be u ontaminated work clothing should	oroughly after handling chemical products, before tory and at the end of the working period. used to remove potentially contaminated clothing. d not be allowed out of the workplace. Wash ng. Ensure that eyewash stations and safety on location.
Eye/face protection	ssessment indicates this is neces ases or dusts. If contact is possib	approved standard should be used when a risk sary to avoid exposure to liquid splashes, mists, ole, the following protection should be worn, unless degree of protection: safety glasses with side-
Skin protection		
Hand protection	orn at all times when handling cho ecessary. Considering the param uring use that the gloves are still r oted that the time to breakthrough	ves complying with an approved standard should be emical products if a risk assessment indicates this is neters specified by the glove manufacturer, check retaining their protective properties. It should be n for any glove material may be different for different of mixtures, consisting of several substances, the ot be accurately estimated.
Body protection		the body should be selected based on the task being nd should be approved by a specialist before
Other skin protection		tional skin protection measures should be selected and the risks involved and should be approved by a luct.
Respiratory protection	se a properly fitted, air-purifying o andard if a risk assessment indic	or air-fed respirator complying with an approved ates this is necessary. Respirator selection must be posure levels, the hazards of the product and the safe

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid. [Paste.]
Color	: Brown.
Odor	: Faint odor.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >100°C (>212°F)
Flash point	: Closed cup: >100°C (>212°F) [Setaflash.]
Evaporation rate	: <1 (butyl acetate = 1)
VOC (less water, less exempt solvents)	: 20 g/l
Relative density	: 1.32
Solubility	: Insoluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients.
: The product is stable.
: Under normal conditions of storage and use, hazardous reactions will not occur.
: No specific data.
: No specific data.
: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
4,4'-methylenediphenyl diisocyanate	LD50 Oral	Rat	9200 mg/kg	-

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4,4'-methylenediphenyl diisocyanate	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-

Conclusion/Summary

Skin	 May cause skin irritation. Contains isocyanates. May be harmful if absorbed through skin.
Eyes	: This product may irritate eyes upon contact.
Respiratory	: May cause respiratory irritation.
Sensitization	
Conclusion/Summary	
Skin	 Contains isocyanates. May cause sensitization by skin contact. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Section 11. Toxicological information

Respiratory

: Contains isocyanates. May cause sensitization by inhalation. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
methylenediphenyl diisocyanate	Category 3	Not applicable.	Respiratory tract irritation
4,4'-methylenediphenyl diisocyanate	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Route of exposure	Target organs
		Not determined Not determined

Aspiration hazard

Name	Result
Distillates (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1

Information on the likely : Routes of entry anticipated: Oral, Dermal, Inhalation. routes of exposure

Potential acute health effects

Eye contact	lo known significant effects or critical hazards.	
Inhalation	larmful if inhaled. May cause respiratory irritation. May cause allergy or asthmay ymptoms or breathing difficulties if inhaled. Exposure to decomposition product ause a health hazard. Serious effects may be delayed following exposure.	
Skin contact	lay cause an allergic skin reaction.	
Ingestion	lo known significant effects or critical hazards.	
Symptoms related to the phy	I, chemical and toxicological characteristics	
Eye contact	lo specific data.	
Inhalation	Adverse symptoms may include the following: espiratory tract irritation coughing vheezing and breathing difficulties isthma	
Skin contact	Adverse symptoms may include the following: rritation edness	
Ingestion	lo specific data.	
Delayed and immediate effect	nd also chronic effects from short and long term exposure	
Short term exposure		
Potential immediate effects	lot available.	
Potential delayed effects	lot available.	
Long term exposure		
Potential immediate effects	lot available.	
Potential delayed effects	lot available.	
Potential chronic health effe		

Section 11. Toxicological information

	-
Conclusion/Summary	: Contains isocyanates. May cause allergic reactions in certain individuals. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
General	: May cause damage to organs through prolonged or repeated exposure if inhaled. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
	Acute LC50 2200 µg/l Fresh water	Fish - Lepomis macrochirus	4 days

Conclusion/Summary : Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
methylenediphenyl diisocyanate	4.51	200	low
4,4'-methylenediphenyl diisocyanate	4.51	200	low
	No lucation signalificant offerste		•

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ	
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	
UN proper shipping name	-	-	-	-	-	-	
Transport hazard class(es)	-	-	-	-	-	-	
Packing group	-	-	-	-	-	-	
Environmental hazards	No.	No.	No.	No.	No.	No.	
Additional information	-	-	-	-	-	-	

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

J.S. Federal regulations	: TSCA 8(a) PAIR: methylenedipher	yl diisocyanate; 4,4'-methylenediphenyl diisocyanate
	TSCA 8(a) CDR Exempt/Partial e	xemption: Not determined
	United States inventory (TSCA 8b):	All components are listed or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed	
Clean Air Act Section 602 Class I Substances	: Not listed	
Clean Air Act Section 602 Class II Substances	: Not listed	
<u>SARA 302/304</u>		
Composition/information	on ingredients	
No products were found.		
SARA 304 RQ	: Not applicable.	
<u>SARA 311/312</u>		
Classification	: Immediate (acute) health hazard Delayed (chronic) health hazard	
Composition/information	on ingredients	

Section 15. Regulatory information

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
methylenediphenyl diisocyanate 4,4'-methylenediphenyl diisocyanate Distillates (petroleum), hydrotreated light	1 - 5 1 - 5 1 - 5	No. No. Yes.	No. No. No.	No. No. No.	Yes. Yes. No.	Yes. Yes. No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	4,4'-methylenediphenyl diisocyanate	101-68-8	1 - 5
Supplier notification	4,4'-methylenediphenyl diisocyanate	101-68-8	1 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: The following components are listed: METHYLENE BISPHENYL ISOCYANATE (MDI)
New York	: The following components are listed: Methylene diphenyl diisocyanate
New Jersey	: The following components are listed: DIISOCYANATES; METHYLENE BISPHENYL ISOCYANATE; BENZENE, 1,1'-METHYLENEBIS[4-ISOCYANATO-

- Pennsylvania
- : The following components are listed: SOYBEAN OIL; BENZENE, 1,1'-METHYLENEBIS [4-ISOCYANATO-

California Prop. 65

Not available.

Ingredient name	Cancer		Maximum acceptable dosage level
Not applicable.			

Canada

Canadian lists

Canadian NPRI

Canada inventory

: The following components are listed: Methylenebis(phenylisocyanate); Hydrotreated light distillate

CEPA Toxic substances

None of the components are listed.All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

<u>Mexico</u>

Classification



International regulations

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Section 15. Regulato	ory information
International lists	 Australia inventory (AICS): Not determined. China inventory (IECSC): All components are listed or exempted. Japan inventory: Not determined. Korea inventory: Not determined. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): All components are listed or exempted. Taiwan inventory (CSNN): All components are listed or exempted.
Europe	: Not determined.
Chemical Weapons Convention List Schedule I Chemicals	: Not listed
Chemical Weapons Convention List Schedule Il Chemicals	: Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Not listed

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

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Date of printing	: 6/18/2015.
Date of issue/Date of revision	: 6/18/2015.

Section 16. Other information

Date of previous issue	: 6/2/2015.
Version	: 4
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: Not available.

✓ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.