

Safety Data Sheet AKB157.1 Date of issue: 11/28/2016 Version: 1.0

SECTION 1: Identification	
1.1. Product identifier	
Product name	: BORON METHOXIDE, 70% in methanol
Product code	: AKB157.1
Product form	: Mixture
Physical state	: Liquid
Formula	: C3H9BO3
Synonyms	: TRIMETHYL BORATE-METHANOL AZEOTROPE
Chemical family	: BORATE ESTER
1.2. Recommended use of the chemical a	and restrictions on use
Recommended use	: Chemical intermediate For research and industrial use only
1.3. Details of the supplier of the safety of	lata sheet
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 A info@gelest.com	AM - 5:30 PM EST
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or m	ixture
GHS-US classification	
Flammable liquids Category 2 Acute toxicity (oral) Category 3 Acute toxicity (dermal) Category 3 Acute toxicity (inhalation:vapor) Category 3 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 1 Specific target organ toxicity (single exposure) Ca Specific target organ toxicity (single exposure) Ca Full text of H statements : see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS02 GHS05 GHS06 GHS07 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	<ul> <li>H225 - Highly flammable liquid and vapor H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H318 - Causes serious eye damage H336 - May cause drowsiness or dizziness H370 - Causes damage to organs</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection P310 - Immediately call a POISON CENTER</li> <li>P210 - Keep away from heat, open flames, sparks No smoking</li> <li>P240 - Ground/Bond container and receiving equipment</li> <li>P241 - Use explosion-proof electrical equipment</li> <li>P242 - Use only non-sparking tools</li> <li>P243 - Take precautionary measures against static discharge</li> <li>P260 - Do not breathe vapors</li> <li>P264 - Wash hands thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> </ul>
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	<ul> <li>P271 - Use only outdoors or in a well</li> <li>P330 - Rinse mouth</li> <li>P301 + P310 - If swallowed: Immedia</li> <li>P303 + P361 + P353 - If on skin (or h skin with water/shower</li> <li>P332 + P313 - If skin irritation occurs</li> <li>P304 + P340 - If inhaled: Remove pe</li> <li>P305+P351+P338 - IF IN EYES: Rin contact lenses, if present and easy to</li> <li>P307 + P311 - If exposed: Call a pois</li> <li>P322 - Specific treatment (see first ai</li> <li>P362 + P364 - Take off contaminated</li> <li>P370 + P378 - In case of fire: Use al extinguish</li> <li>P403 + P233 - Store in a well-ventilai</li> <li>P403 + P235 - Keep in a cool place</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container</li> </ul>	ately call a POISON C hair): take off immedia c: Get medical advice/ proon to fresh air and l se cautiously with war o do. Continue rinsing son center/doctor id instructions on this d clothing and wash it lcohol resistant foam, ted place. Keep conta	ttely all contaminated clothing. rinse attention keep comfortable for breathing ter for several minutes. Remove label) before reuse carbon dioxide, dry chemical to iner tightly closed
2.3. Hazards not otherwise classifi	ed (HNOC)		
No additional information available			
4.4. Unknown acute toxicity (GHS No data available	US)		
SECTION 3: Composition/Inforn	nation on ingredients		
.1. Substance			
lot applicable			
3.2. Mixture			
Name	Product identifier	%	GHS-US classification
Trimethyl borate	(CAS No) 121-43-7	65 - 70	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
Methanol	(CAS No) 67-56-1	30 - 35	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 1, H370 STOT SE 3, H336
Full text of hazard classes and H-statemer	nts : see section 16		
SECTION 4: First aid measures	<u></u>		
.1. Description of first aid measur	es		
irst-aid measures general	: Remove contaminated clothing and s medical advice immediately (show th available show packaging or label.		
irst-aid measures after inhalation	<ul> <li>Remove victim to fresh air and keep call a poison center or doctor/physicia</li> </ul>		omfortable for breathing. Immediate
irst-aid measures after inhalation	: Remove victim to fresh air and keep	an.	

First-aid measures after eye contact I Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

 First-aid measures after ingestion
 present and easy to do. Continue rinsing. Get immediate medical advice/attention.

 First-aid measures after ingestion
 Never give anything by mouth to an unconscious person. Immediately call a poison center or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries : Causes damage to organs. Symptoms/injuries after inhalation Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause drowsiness or dizziness. May cause irritation to the respiratory tract. Overexposure may cause: Nausea. Headache. Visual disturbances. Cough. : Toxic in contact with skin. Repeated exposure to this material can result in absorption through Symptoms/injuries after skin contact skin causing significant health hazard. Causes skin irritation. Symptoms/injuries after eye contact : Causes serious eye damage. Symptoms/injuries after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard. Oral toxicity is associated with methanol, the solvent and a hydrolysis product which causes nausea, vomiting, headache, visual effects including blindness. Chronic symptoms : Methanol may effect the central nervous system resulting in persistent or recurring headaches or impaired vision. The solvent, methanol, probably determines toxicity. Ingestion of methanol can cause blindness and death.

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#### 4.3. Indication of any immediate medical attention and special treatment needed

Note to physician: Boron methoxide hydrolyzes to form methanol and boric acid. Treatment for exposure to methanol may be considered. At very high levels borates affect the CNS. NOTE TO PHYSICIAN: The combination of visual disturbances, metabolic acidosis and formic acid in urine is evidence of methanol poisoning. The therapeutic intravenous administration of ethanol (10 mls/hour) allows methanol to be preferentially oxidized and reduces production of methanol metabolites. Acidosis must be treated with intravenous administration of sodium bicarbonate and methanol elimination may be increased by hemodialysis, as indicated. Treatment should be based on blood methanol levels and acid-base balance.

SECTION 5: Firefighting	ng measures	
5.1. Extinguishing me	dia	
Suitable extinguishing media	:	Alcohol-resistant foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing med	lia :	Avoid water spray as methanol will be generated.
5.2. Special hazards a	rising from the subst	ance or mixture
Fire hazard		Highly flammable liquid and vapor. Irritating fumes and organic acid vapors may develop when
		material is exposed to elevated temperatures or open flame.
Explosion hazard	:	May form flammable/explosive vapor-air mixture.
5.3. Advice for firefigh	ters	
Firefighting instructions	:	Exercise caution when fighting any chemical fire.
Protection during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.
<b>SECTION 6: Accidenta</b>	al release measu	res
6.1. Personal precauti	ons, protective equip	ment and emergency procedures
General measures	:	Eliminate every possible source of ignition. Use special care to avoid static electric charges.
6.1.1. For non-emergend	cy personnel	
Protective equipment	:	Wear protective equipment as described in Section 8.
Emergency procedures		Evacuate unnecessary personnel.
6.1.2. For emergency re-	sponders	
Protective equipment		Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental pre	ecautions	
		uthorities if liquid enters sewers or public waters.
	erial for containment	
For containment	:	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	:	Clean up any spills as soon as possible, using an absorbent material to collect it. Use only non-sparking tools.
6.4. Reference to othe	r sections	
See Heading 8. Exposure con	ntrols and personal pro	stection.
<b>SECTION 7: Handling</b>	and storage	
7.1. Precautions for sa		
	Ū	
Additional hazards when proc	essed :	Handle empty containers with care because residual vapors are flammable. Keep away from heat/sparks/open flames/hot surfaces No smoking.
Precautions for safe handling	:	Avoid all eye and skin contact and do not breathe vapor and mist. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Use only non-sparking tools.
Hygiene measures	:	Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for saf	e storage, including	any incompatibilities
Technical measures	:	Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment.
Storage conditions	:	Keep container tightly closed. Avoid contact with water. Keep in a cool place. Store locked up.

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Incompatible materials	:	Water.
Storage conditions	-	Keep container tightly closed. Avoid contact with water. Keep in a cool place. Store locked

Storage area : Store in a well-ventilated place. Store away from heat.

#### SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Trimethyl borate (121-43-7)		
ACGIH	ACGIH TWA (ppm)	100 ppm
Methanol (67-56-1)	-	
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	250 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
IDLH	US IDLH (ppm)	6000 ppm
NIOSH	NIOSH REL (TWA) (mg/m³)	260 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (ppm)	200 ppm
NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	325 mg/m <sup>3</sup>
NIOSH	NIOSH REL (STEL) (ppm)	250 ppm

8.2. Exposure controls	
Appropriate engineering controls	: Provide local exhaust or general room ventilation.
Personal protective equipment	: Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Neoprene or nitrile rubber gloves.
Eye protection	: Chemical goggles or face shield. Contact lenses should not be worn.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black cartridge) respirator.
<b>SECTION 9: Physical and chemica</b>	I properties
9.1. Information on basic physical and	I chemical properties
Physical state	: Liquid
Appearance	: Liquid.
Molecular mass	: 103.91 g/mol
Color	: Water white.
Odor	: slight.
Odor threshold	: No data available
Refractive index	: 1.3472
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: -29 °C
Boiling point	: 54 - 57 °C
Flash point	: -7 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor
Vapor pressure	: 205.5 mm Hg @ 25°C
Relative vapor density at 20 °C	: >1
Relative density	: 0.883

: > 90 %

: Reacts with water.

: No data available

: No data available

: No data available : No data available

: No data available

: No data available : No data available : No data available

Viscosity, kinematic

Viscosity, dynamic

Explosion limits

Explosive properties Oxidizing properties

VOC content

Solubility

Log Pow

Log Kow

# BORON METHOXIDE, 70% in methanol Safety Data Sheet

9.2. Other information No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reactions	
,	y reaction with moisture, liberating methanol and boric acid.
10.4. Conditions to avoid	,
Heat. Sparks. Open flame.	
10.5. Incompatible materials	
Water.	
10.6. Hazardous decomposition products	
Organic acid vapors. Boron oxide fumes.	
<b>SECTION 11: Toxicological informati</b>	ion
11.1. Information on toxicological effects	
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic if inhaled.
BORON METHOXIDE, 70% in methanol (121-	
ATE US (oral)	285.714 mg/kg body weight
ATE US (dermal)	857.143 mg/kg body weight
ATE US (vapors)	8.571 mg/l/4h
Trimethyl borate (121-43-7)	
LD50 oral rat	7910 mg/kg 6140 mg/kg
LD50 dermal rabbit	1980 µl/kg
LC50 inhalation rat (ppm)	6400 ppm/4h
ATE US (oral)	7910.000 mg/kg body weight
ATE US (gases)	6400.000 ppmV/4h
Methanol (67-56-1)	
LC50 inhalation rat (ppm)	22500 ppm (Exposure time: 8 h)
ATE US (oral)	100.000 mg/kg body weight
ATE US (dermal)	300.000 mg/kg body weight
ATE US (vapors)	3.000 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
	Eye Irritation - rabbit: 500 mg: moderate irritation effect
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
	None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Causes damage to organs. May cause drowsiness or dizziness.
יסריסווים נמוצטי סיצמוז נטאוסוני (אוווצוע פאטסטוע)	. Causes damaye to organs, may dause arowsiness of alleliness.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Toxic if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause drowsiness or dizziness. May cause irritation to the respiratory tract. Overexposure may cause: Nausea. Headache. Visual disturbances. Cough.
Symptoms/injuries after skin contact	: Toxic in contact with skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye damage.

## BORON METHOXIDE, 70% in methanol Safety Data Sheet

Symptoms/injuries after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard. Oral toxicity is associated with methanol, the solvent and a hydrolysis product which causes nausea, vomiting, headache, visual effects including blindness.
Chronic symptoms	: Methanol may effect the central nervous system resulting in persistent or recurring headaches or impaired vision. The solvent, methanol, probably determines toxicity. Ingestion of methanol can cause blindness and death.
Reason for classification	: Expert judgment
<b>SECTION 12: Ecological information</b>	
12.1. Toxicity	
Methanol (67-56-1)	
LC50 fish 1	28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
Methanol (67-56-1)	
BCF fish 1	< 10
Log Pow	-0.77
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other adverse effects	: This substance may be hazardous to the environment.
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known effects from this product.
GWPmix comment	: No known effects from this product.
SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
14.1. UN number	
UN-No.(DOT)	: 1230
DOT NA no.	UN1230
14.2. UN proper shipping name	
Transport document description	: UN1230 Methanol (METHANOL SOLUTION), 3 (6.1), II
Proper Shipping Name (DOT)	: Methanol
	(METHANOL SOLUTION)
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT) Hazard labels (DOT)	: II - Medium Danger : 3 - Flammable liquid
	6.1 - Poison
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Symbols	: + - Fixes (cannot be altered) proper shipping name, hazard class, and packing group, I - Proper
	shipping name appropriate for international and domestic transportation

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14.3. Additional information	
Emergency Response Guide (ERG) Number	: 131
Other information	: No supplementary information available.
Transport by sea	
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" or passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L

#### SECTION 15: Regulatory information 15.1. US Federal regulations

Trimethyl borate (121-43-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Methanol (67-56-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313
SARA Section 313 - Emission Reporting 1.0 %

#### 15.2. International regulations

Trimethyl borate (121-43-7)					
Listed on the Canadian DSL (Domestic S	ubstances List)				
WHMIS Classification	Class B D	ivision 2 - Flammab	le Liquid		
Methanol (67-56-1)					
Listed on the Canadian DSL (Domestic S	ubstances List)				
WHMIS Classification	Class D D Class D D	ivision 2 Subdivision		ial causing other tox	

#### EO-Regulations

#### Trimethyl borate (121-43-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Methanol (67-56-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### **National regulations**

#### Trimethyl borate (121-43-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Methanol (67-56-1)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Japanese Poisonous and Deleterious Substances Control Law
Listed on the Canadian IDL (Ingredient Disclosure List)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

#### 15.3. US State regulations

Methanol (67-56-1)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)	
No	Yes	No	No		
Trimethyl borate (121-43-7)					
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List					
Methanol (67-56-1)					
U.S Massachusetts - Right To Know List					

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

#### **SECTION 16: Other information**

#### Full text of H-phrases::

 , al l'el l'el l'el le l	
H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H336	May cause drowsiness or dizziness
H370	Causes damage to organs

Abbreviations and acronyms

: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling.

HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Prepared by safety and environmental affairs.	
Date of issue: 11/28/2016 Version: 1.0	

SDS US (GHS HazCom 2012) - Custom

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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