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		400 402400)	Page n. 1/15
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	Safety Da		
SECTION 1. Identificatio	n of the substance/mixture	and of the company/	undertaking
<b>1.1. Product identifier</b> Product name	BRAKE FLUID DOT	5.1 - 402407-402408-402409	
1.2. Relev ant identified uses of the Intended use BRA	e substance or mixture and uses adv KE FLUID DOT 5.1 (for B2C)	ised against	
Identified Uses Functional Fluids	Industrial	Professional	Consumer
Functional Fluids	Ý	¥	4
1.3. Details of the supplier of the s	afety data sheet		
Name Full address	<b>Valeo Service Afri</b> 70 rue Pleyel	ca & Overseas	
District and Country	93285 SaintDenis France	Cedex	
	Tel. +33 (0)1 49 45	32 32	
e-mail address of the competent per responsible for the Safety Data Sho		ov@valeo.com	
is ponable for the dalety bata of			
<b>1.4. Emergency telephone numbe</b> For urgent inquiries refer to	r +33 (0)1 49 45 32 32	2 (business hours)	
SECTION 2. Hazards ide	ntification		
2.1. Classification of the substance	or mixture		
supplements). The product thus requi	ous pursuant to the provisions set forth ires a safety datasheet that complies with g the risks for health and/or the environm	h the provisions of (EU) Regulat	
Hazard classification and indication: Reproductive toxicity, category 2	H361d	Suspected of dama	ging the unborn child.
2.2. Label elements			
Hazard labelling pursuant to FC Regu	ulation 1272/2008 (CLP) and subsequen	t amendments and supplements	s
			-

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Hazard pictograms:						
Signal words: W	/aming					
Hazard statements:						
<b>H361d</b> St	uspected of damaging the unborn child.					
Precautionary statements:						
P102         Ke           P280         W           P101         If           P405         St	Dispose of contents/container in accordance with local/regional/national/international regulations. Keep out of reach of children. Wear protective gloves/ protective clothing / eye protection / face protection. If medical advice is needed, have product container or label at hand. Store locked up. Obtain special instructions before use.					
Contains: tri	is[2-[2-(2-methoxyethoxy)ethoxy]ethyl] borate					
2.3. Other hazards						

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

# SECTION 3. Composition/information on ingredients

## 3.2. Mixtures

## Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
tris[2-[2-(2- methoxyethoxy)ethoxy]ethyl] borate CAS 30989-05-0	60≤x< 70	Repr. 2 H361d
EC 250-418-4		
INDEX -		
Reg. no. 01-2119462824-33-xxxx		
DIETHYLENE GLYCOL MONOMETHYL ETHER CAS 111-77-3	1≤x< 2	Repr. 2 H361d

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EC 203-906-6			
INDEX 603-107-00-6			
Reg.no. 01-2119475100-52-xxxx			
CAPRYL AMINE ETHOXYLATE 2-4	L .		
<b>EO</b> CAS 15520-05-5	0≤x< 1,5	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H31	5
EC 239-555-0			
INDEX -			
Reg.no. 01-2120136161-71-xxxx			
DIETHYLENE GLYCOL			
CAS 111-46-6	$1 \leq x < 4$	Acute Tox. 4 H302	
EC 203-872-2			
INDEX 603-140-00-6			
Reg.no. 01-2119457857-21-xxxx			

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## **SECTION 4. First aid measures**

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

# **SECTION 5. Firefighting measures**

## 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

## 5.2. Special hazards arising from the substance or mixture

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HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

### 5.3. Adv ice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazar dous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## **SECTION 6.** Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

## 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

## 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers a way from any incompatible materials, see section 10 for details.

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7.3. Specific end use(s)		

Information not available

# SECTION 8. Exposure controls/personal protection

## 8.1. Control parameters

Regulatory References:

DEU	Deutschland	TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
DNK	Danmark	Graensev aerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2017
EST	Eesti	Töökeskkonna keemiliste ohutegurite piirnormid 1. Vastu võetud 18.09.2001 nr 293 RT I 2001, 77, 460 -
-		Redaktsiooni jõustumise kp: 01.01.2008
FIN	Suomi	HTP-arv ot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveysministeriön julkaisuja 2012:5
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LTU	Lietuva	DEL LIETUVOS HIGIENOS NORMOS HN 23:2007 CHEMINIU MEDZIAGU 2007 m. spalio 15 d. Nr. V-
LIU	Lietuva	
		827/A1-287
LVA	Latvija	Ķīmisko vielu aroda ekspozīcijas robežvērtības (AER) darba vides gaisā 2012
POL	Polska	ŔOZPORZĄDZENIE MINISTŔA RODZIN Y, PRÁC Ý I POLITYKI ŠPOŁECZNEJ z dnia 12 czerwca 2018 r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos
		trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no
		trabalho - Diaro da Republica I 26, 2012-02-06
ROU	România	Monitorul Oficial al României 44: 2012-01-19
SVK	Slov ensko	NARIADENIE VLADY Slovenskej republiky z 20. júna 2007
SVN	Slov enija	Uradni list Republike Slovenije 04.06.2015 (1602) - Pravilnik o spremembah in dopolnitvah Pravilnika o
0	elev ellija	v arovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
SWE	Sv erige	Occupational Exposure Limit Values, AF 2011:18
EU	OELEU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
	OLLLO	2004/37/EC: Directive 2000/39/EC: Directive 91/32/EEC.
1		2004/37/EC, DIREGIVE 2000/39/EC, DIREGIVE 91/322/EEC.

### DIETHYLENE GLYCOL MONOMETHYL ETHER Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	STEL/15min		
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP	50,1	10			SKIN	
HTP	FIN	50,1	10			SKIN	
TLV	GRC	50,1	10				
VLEP	ITA	50,1	10			SKIN	
NDS	POL	50					
VLE	PRT	50,1	10			SKIN	
TLV	ROU	50,1	10			SKIN	
MV	SVN	50,1	10			SKIN	
OEL	EU	50,1	10			SKIN	

# DIETHYLENE GLYCOL

Threshold Limit Value					
Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm

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AGW	DEU	44	10	176	40	
МАК	DEU	44	10	176	40	
TLV	DNK	11	2,5			
TLV	EST	45	10	90	20	SKIN
WEL	GBR	101	23			

90

176

90

10

20.9

1,53

Chronic

systemic

10

20

20

Effects on workers

Acute local

ma/l

mg/l

mg/l

mg/kg

mg/kg

Acute

systemic

Chronic local

12 mg/m3 VND Chronic

systemic VND

53 mg/kg/d

SKIN

SKIN

10

10

10

Acute systemic Chronic local

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

HAND PROTECTION

Provide an emergency shower with face and eye wash station.

I TU

I VA

SVK

SWE

Effects on

consumers

Acute local

Predicted no-effect concentration - PNEC

Normal value for marine water sediment

Normal value for the terrestrial compartment

Health - Derived no-effect level - DNEL / DMEL

Normal value of STP microorganisms

Normal value in fresh water

Normal value in marine water

Route of exposure

8.2. Exposure controls

through effective local aspiration.

Inhalation

Skin

Legend:

45

10

44

45

Protect hands with category III work gloves (see standard EN 374). The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired

**SKIN PROTECTION** 

RD

RV

NPHV

MAK

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with so ap

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and water after removing protective clothi	ng.	

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 137). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## **SECTION 9.** Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	liquid
Colour	amber
Odour	characteristic
Odourthreshold	Not available
рН	7-11
Melting point/freezing point	Not avail able
Initial boiling point	> 265 °C
Boiling range	Not available
Flash point	> 125 °C
EvaporationRate	Not avail able
Flammability of solids and gases	not applicable
Lowerinflammability limit	Not avail able
Upper inflammability limit	Not available
Lowerexplosive limit	Not avail able
Upper explosive limit	Not avail able
Vapour pressure	Not avail able
Vapourdensity	Not avail able
Relative density	1,010-1,080
Solubility	soluble
Partition coefficient: n-octanol/water	Not avail able
Auto-ignition temperature	> 350 °C
Decomposition temperature	Not available

r			
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Viscosity	13,660 mm2/s	Temperature:20°C	
Explosive properties Oxidising properties	Not available Not available		
9.2. Other information			
VOC (Directive 2010/75/EC) :	0		
VOC (volatile carbon):	0		
SECTION 10. Stability an	id reactivity		
10.1. Reactiv ity			
There are no particular risks of reaction	on with other substances in norma	al conditions of use.	
10.2. Chemical stability			
The product is stable in normal condit	tions of use and storage		
	ionoor doo and dorago.		
Hygroscopic.			
10.3. Possibility of hazardous react	ions		
No hazardous reactions are foreseea	ble in normal conditions of use an	nd storage.	
DIETHYLENE GLYCOL MONOMETH	IYL ETHER		
Reacts violently developing heat on contact with: alkaline metals, strong acids, strong oxidants, oleum. Fire hazard. Develops flammable gas on contact			
with: calcium hypochlorite. Develops hydrogen on contact with: aluminium.			
10.4. Conditions to avoid			
None in particular. However the usual	I precautions used for chemical p	roducts should be respected.	
DIETHYLENE GLYCOL MONOMETH	HYL ETHER		
Possibility of explosion with air due to production of peroxides.			
10.5. Incompatible materials			
Information not available			
10.6. Hazardous decomposition products			

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DIETHYLENE GLYCOL MONOMET	'HYL ETHER		
When heated to decomposition rele	ases: harsh fumes,zinc alloys.		
SECTION 11. Toxicolog	ical information		
In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.			
11.1. Information on toxicological effects			
<u>Metabolism, toxicokinetics, mechan</u>	sm of action and other information		
Information not available			
Information on likely routes of expos	ure		
Information not available			
Delayed and immediate effects as w	ell as chronic effects from short and long-term exposure		
Information not available			
Interactive effects			
Information not available			
ACUTE TOXICITY			
LC50 (Inhalation) of the mixture: Not classified (no significant compo- LD50 (Oral) of the mixture: >2000 mg/kg LD50 (Dermal) of the mixture: Not classified (no significant compo			
DIETHYLENE GLYCOL			
LD50 (Oral) 12565 mg/kg Rat			
LD50 (Dermal) 11890 mg/kg Rabbit			

DIETHYLENE GLYCOL MONOMETHYL ETHER

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LD50 (Oral) 5500 mg/kg Rat				
SKIN CORROSION / IRRITATION				
Does not meet the classification criter	ia for this hazard class			
SERIOUS EYE DAMAGE / IRRITATI	<u>ON</u>			
Does not meet the classification criter	ia for this hazard class			
Serious eye damage/eye irritation Product: Species: Bovine cornea Assessment: No eye irritation Method: OECD Test Guideline 437 Result: No eye irritation GLP: yes				
RESPIRATORY OR SKIN SENSITISATION				
Does not meet the classification criteria for this hazard class				
GERM CELL MUTAGENICITY				
Does not meet the classification criter	ia for this hazard class			
CARCINOGENICITY				
Does not meet the classification criter	ia for this hazard class			
REPRODUCTIVE TOXICITY				
Suspected of damaging the unborn cl	hild			
STOT - SINGLE EXPOSURE				
Does not meet the classification criteria for this hazard class				
STOT - REPEATED EXPOSURE				
Does not meet the classification criteria for this hazard class				
ASPIRATION HAZARD				
Does not meet the classification criteria for this hazard class				

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SECTION 12. Ecological	information	
Use this product according to good contaminate soil or vegetation.	working practices. Avoid littering. Inform the competent authorit	ies, should the product reach waterways or
12.1. Toxicity		
DIETHYLENE GLYCOL		
LC50 - for Fish	> 75 g/l	
12.2. Persistence and degradability		
DIETHYLENE GLYCOL MONOMET ETHER Solubility in water	HYL 1000 - 10000 mg/l	
Rapidly degradable 12.3. Bioaccumulative potential		
DIETHYLENE GLYCOL MONOMET ETHER Partition coefficient: n-octanol/water	HYL -0,47	
12.4. Mobility in soil		
Information not available		
12.5. Results of PBT and v Pv B asse	ssment	
On the basis of available data, the pro	duct does not contain any PBT or vPvB in percentage greater than 0,	1%.
12.6. Other adverse effects		
Information not available		

# **SECTION 13. Disposal considerations**

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

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# **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

### 14.1. UN number

Not applicable

## 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

## 14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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			·
Information not relevant			
SECTION 15. Regulatory	y information		
15.1. Safety, health and env ironm	ental regulations/legisk	ation specific for the substance or mixture	
Seveso Category - Directive 2012/18	/FC: None		
			000
Restrictions relating to the product or	contained substances pui	rsuant to Annex XVII to EC Regulation 1907/2	006
Product Point	3		
Contained substance			
Point	54	DIETHYLENE GLYCOL MONOMETHYL ETHER Reg. no.: 01- 2119475100-52-xxxx	
Substances in Candidate List (Art. 59	REACH)		
On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.			
Substances subject to authorisation (	Annex XIV REACH)		
None			
Substances subject to exportation rep	porting pursuant to (EC) R	eg. 649/2012:	
None			
Substances subject to the Rotterdam Convention:			
None			
Substances subject to the Stockholm Convention:			
None			
Healthcare controls			
Workers exposed to this chemical ag workers' health and safety are modes	entmust not undergo hea st and that the 98/24/EC d	alth checks, provided that available risk-assessn lirective is respected.	nent data prove that the risks related to the

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### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

DIETHYLENE GLYCOL MONOMETHYL ETHER

DIETHYLENE GLYCOL

## **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Repr. 2	Reproductive toxicity, category 2	
Acute Tox. 4	Acute toxicity, category 4	
Eye Dam. 1	Seriouseye damage, category 1	
Skin Irrit. 2	Skin irritation, category 2	
H361d	Suspected of damaging the unborn child.	
H302	Harmful if swallowed.	
H318	Causes serious eye damage.	
H315	Causes skin irritation.	

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number - CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

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	BRAKE FLUID DOT 5.1	Printed on 29/05/2019		
	(402407-402408-402409)			
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Changesto previous review: The following sections were modified: 09.				