

# SAFETY DATA SHEET

### 1. Identification

Product identifier Power Flush Injector Fluid

Other means of identification

**FIR No.** 158039

Recommended use Fuel injector cleaner

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name Ford Motor Company

Address Attention: SDS Information, P.O. Box 1899

Dearborn, Michigan 48121

USA

**Telephone** 1-800-392-3673

**SDS Information** 1-800-448-2063 (USA and Canada)

fordsds.com

**Emergency telephone** 

numbers

Poison Control Center: USA and Canada: 1-800-959-3673 INFOTRAC (Transportation): USA and Canada 1-800-535-5053

# 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 3Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2ACarcinogenicityCategory 2Environmental hazardsHazardous to the aquatic environment, acuteCategory 2

hazard

Hazardous to the aquatic environment,

Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Causes serious eye

irritation. Suspected of causing cancer. Toxic to aquatic life. Toxic to aquatic life with long lasting

effects.

**Precautionary statement** 

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

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Response If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. Do NOT induce

vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire:

Use appropriate media to extinguish. Collect spillage.

**Storage** Keep cool. Store locked up. Store in a well-ventilated place.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

HARMFUL OR FATAL IF SWALLOWED.

Aspiration may cause pulmonary edema and pneumonitis. May cause irritation of respiratory tract. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May be

harmful if absorbed through skin.

Supplemental information

None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
tert-Butylbenzene		98-06-6	7 - < 12
TRIMETHYLBENZENE		25551-13-7	5 - < 13
Solvent naphtha (petroleum), light arom.		64742-95-6	4 - < 16
1,2,4-TRIMETHYLBENZENE		95-63-6	2 - < 7
1,4-Diethylbenzene		105-05-5	1 - < 4
CUMENE		98-82-8	0.2 - < 0.8
2-BUTOXYETHANOL		111-76-2	13 - 16
Solvent naphtha (petroleum), heavy arom.	1	64742-94-5	< 10
4-METHYLPENTAN-2-OL		108-11-2	3 - 5
Ammonia, aqueous solution		1336-21-6	1 - 2
NAPHTHALENE		91-20-3	0.6 - 2
1,2,3-TRIMETHYLBENZENE		526-73-8	0.4 - 2
SULPHURIC ACID		7664-93-9	≤ 0.1

Specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact**Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation

occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

Headache. Dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

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Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** Flammable liquid and vapor.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Keep people away from and upwind of spill/leak. Keep unnecessary personnel away. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. The product is immiscible with water and will spread on the water surface. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Take precautionary measures against static discharges. Should be handled in closed systems, if possible. Explosion-proof general and local exhaust ventilation. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Avoid release to the environment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Wear appropriate personal protective equipment. For personal protection, see Section 8 of the SDS.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)				
Components	Туре	Value		
2-BUTOXYETHANOL (CAS 111-76-2)	PEL	240 mg/m3		
		50 ppm		

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US. OSHA Table Z-1 Limits for Air Cont Components	aminants (29 CFR 1910.1000) Type	Value	
4-METHYLPENTAN-2-OL (CAS 108-11-2)	PEL	100 mg/m3	
,		25 ppm	
Ammonia, aqueous solution (CAS 1336-21-6)	PEL	35 mg/m3	
		50 ppm	
CUMENE (CAS 98-82-8)	PEL	245 mg/m3	
		50 ppm	
NAPHTHALENE (CAS 91-20-3)	PEL	50 mg/m3	
		10 ppm	
Solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)	PEL	400 mg/m3	
		100 ppm	
Solvent naphtha (petroleum), light arom. (CAS 64742-95-6)	PEL	400 mg/m3	
(6/18/01/12/08/07)		100 ppm	
SULPHURIC ACID (CAS 7664-93-9)	PEL	1 mg/m3	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
1,2,3-TRIMETHYLBENZEN E (CAS 526-73-8)	TWA	25 ppm	
1,2,4-TRIMETHYLBENZEN E (CAS 95-63-6)	TWA	25 ppm	
2-BUTOXYETHANOL (CAS 111-76-2)	TWA	20 ppm	
4-METHYLPENTAN-2-OL (CAS 108-11-2)	STEL	40 ppm	
	TWA	25 ppm	
Ammonia, aqueous solution (CAS 1336-21-6)	STEL	35 ppm	
	TWA	25 ppm	
CUMENE (CAS 98-82-8)	TWA	50 ppm	
NAPHTHALENE (CAS 91-20-3)	TWA	10 ppm	
Solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)	TWA	200 mg/m3	Non-aerosol.
SULPHURIC ACID (CAS 7664-93-9)	TWA	0.2 mg/m3	Thoracic fraction.
TRIMETHYLBENZENE (CAS 25551-13-7)	TWA	25 ppm	
US. NIOSH: Pocket Guide to Chemical I Components	lazards Type	Value	
1,2,3-TRIMETHYLBENZEN E (CAS 526-73-8)	TWA	125 mg/m3	
,		25 ppm	
1,2,4-TRIMETHYLBENZEN E (CAS 95-63-6)	TWA	125 mg/m3	
		25 ppm	

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Components	Туре	Value	
2-BUTOXYETHANOL (CAS 111-76-2)	TWA	24 mg/m3	
		5 ppm	
4-METHYLPENTAN-2-OL (CAS 108-11-2)	STEL	165 mg/m3	
		40 ppm	
	TWA	100 mg/m3	
		25 ppm	
Ammonia, aqueous solution (CAS 1336-21-6)	STEL	27 mg/m3	
		35 ppm	
	TWA	18 mg/m3	
		25 ppm	
CUMENE (CAS 98-82-8)	TWA	245 mg/m3	
		50 ppm	
NAPHTHALENE (CAS 91-20-3)	STEL	75 mg/m3	
		15 ppm	
	TWA	50 mg/m3	
		10 ppm	
Solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)	TWA	400 mg/m3	
(0/10/04/42/04/0)		100 ppm	
Solvent naphtha (petroleum), light arom.	TWA	400 mg/m3	
(CAS 64742-95-6)		100 nnm	
	Τ\Λ/Λ	100 ppm	
SULPHURIC ACID (CAS 7664-93-9)	TWA	1 mg/m3	
TRIMETHYLBENZENE (CAS 25551-13-7)	TWA	125 mg/m3	
		25 ppm	
US. Workplace Environmental Exp	osure Level (WEEL) Guides		
Components	Type	Value	
1,4-Diethylbenzene (CAS 105-05-5)	TWA	5 ppm	

### **Biological limit values**

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
2-BUTOXYETHANO 111-76-2)	L (CAS 200 mg/g	Butoxyacetic acid (BAA),	Creatinine in urine	*
,		with hydrolysis		

<sup>\* -</sup> For sampling details, please see the source document.

# **Exposure guidelines**

US - California OELs: Skin designation

2-BUTOXYETHANOL (CAS 111-76-2) Can be absorbed through the skin. 4-METHYLPENTAN-2-OL (CAS 108-11-2) Can be absorbed through the skin. Can be absorbed through the skin. **CUMENE (CAS 98-82-8)** NAPHTHALENE (CAS 91-20-3) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2-BUTOXYETHANOL (CAS 111-76-2) Skin designation applies. 4-METHYLPENTAN-2-OL (CAS 108-11-2) Skin designation applies.

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CUMENE (CAS 98-82-8) Skin designation applies.

US - Tennessee OELs: Skin designation

2-BUTOXYETHANOL (CAS 111-76-2)

4-METHYLPENTAN-2-OL (CAS 108-11-2)

CUMENE (CAS 98-82-8)

Can be absorbed through the skin.

Can be absorbed through the skin.

Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

4-METHYLPENTAN-2-OL (CAS 108-11-2)

NAPHTHALENE (CAS 91-20-3)

Solvent naphtha (petroleum), heavy arom. (CAS

Can be absorbed through the skin.

Can be absorbed through the skin.

Can be absorbed through the skin.

64742-94-5)

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-BUTOXYETHANOL (CAS 111-76-2)

4-METHYLPENTAN-2-OL (CAS 108-11-2)

CUMENE (CAS 98-82-8)

Can be absorbed through the skin.

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-BUTOXYETHANOL (CAS 111-76-2)

4-METHYLPENTAN-2-OL (CAS 108-11-2)

CUMENE (CAS 98-82-8)

Can be absorbed through the skin.

Can be absorbed through the skin.

Can be absorbed through the skin.

Appropriate engineering

controls

Provide eyewash station and safety shower. Use adequate ventilation to control airborne concentrations below the exposure limits/guidelines. If user operations generate a vapor, dust and/or mist, use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits/guidelines.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Suitable chemical protective gloves should be worn when the potential exists for skin exposure.

The choice of an appropriate glove does not only depend on its material but also on other quality

features and is different from one producer to the other. Nitrile or butyl rubber gloves are

recommended.

**Other** Wear appropriate chemical resistant clothing if applicable.

Respiratory protection If engineering controls do not maintain airborne concentrations to a level which is adequate to

protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection

Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Form Liquid.
Color Yellow.

Odor Characteristic.

Odor threshold Not available.

PH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

**Flash point** 115.0 °F (46.1 °C) ASTM D93

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

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Not available.

(%)

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Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%)

Not available. Not available.

Explosive limit - upper (%) Vapor pressure

Not available.

Vapor density

Not available.

Relative density

0.91

Relative density temperature

77 °F (25 °C)

Solubility(ies)

Solubility (water)

**INSOLUBLE** 

Partition coefficient

Not available.

(n-octanol/water)

Not available.

**Auto-ignition temperature Decomposition temperature** 

Not available.

Viscosity

Not available.

Other information

61.21 % CAM310 VOC

# 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

**Chemical stability** Possibility of hazardous Material is stable under normal conditions.

reactions

Hazardous polymerization does not occur.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid Conditions to avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

**Hazardous decomposition** 

products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular

weight hydrocarbons.

### 11. Toxicological information

### Information on likely routes of exposure

Inhalation Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May

cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Eye contact Causes serious eve irritation.

Ingestion May be fatal if swallowed and enters airways. HARMFUL OR FATAL IF SWALLOWED.

Symptoms related to the physical, chemical and toxicological characteristics Headache. Dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

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## Information on toxicological effects

Acute toxicity

Components	Species	Calculated/Test Results
1,2,4-TRIMETHYLBENZE	NE (CAS 95-63-6)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 3160 mg/kg
Inhalation		
LC50	Rat	> 2000 ppm, 48 Hours
Oral		
LD50	Rat	6 a/ka

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Components	Species	Calculated/Test Results
2-BUTOXYETHANOL (CAS	111-76-2)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	400 mg/kg
Inhalation		
LC50	Mouse	700 ppm, 7 Hours
	Rat	486 ppm, 4 Hours
		450 ppm, 4 Hours
Oral		
LD50	Guinea pig	1.2 g/kg
	Mouse	1519 mg/kg
		1.2 g/kg
	Rabbit	0.32 g/kg
	Rat	560 mg/kg
	rac	
Othor		1.48 g/kg
<b>Other</b> LD50	Mouse	1130 mg/kg
LD30		
	Rabbit	280 mg/kg
	Rat	550 mg/kg
		340 mg/kg
4-METHYLPENTAN-2-OL (C	CAS 108-11-2)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	3.56 ml/kg
Oral		
LD50	Rat	2.6 g/kg
Ammonia, aqueous solution	(CAS 1336-21-6)	
<u>Acute</u>		
Oral		
LD50	Rat	350 mg/kg
CUMENE (CAS 98-82-8)		
<u>Acute</u>		
Inhalation		
LC50	Mouse	2000 ppm, 7 Hours
		24.7 mg/l, 2 Hours
	Rat	8000 ppm, 4 Hours
Oral		
LD50	Rat	1400 mg/kg
		2.91 g/kg
NAPHTHALENE (CAS 91-20	0-3)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2 g/kg
	Rat	> 20 g/kg
Oral		
LD50	Guinea pig	1200 mg/kg
	Rat	2400 mg/kg
		2200 mg/kg
		490 mg/kg
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Components	Species	Calculated/Test Results
		2.6 g/kg
Other	Mauro	060 malka
LD50	Mouse	969 mg/kg
		710 mg/kg
		533 mg/kg
		150 mg/kg
		100 mg/kg
Solvent naphtha (petroleum), hear	vy arom. (CAS 64742-94-5)	
<u>Acute</u>		
Inhalation	Rat	73690 mg/L 4 Hours
LC50	Rai	73680 mg/l, 4 Hours
		61 mg/l, 4 Hours
Oral	Det	N 05 mHz
LD50	Rat	> 25 ml/kg
Other	Dobbit	> 5 mag/log Allauma
LD50	Rabbit	> 5 mg/kg, 4 Hours
Solvent naphtha (petroleum), light	arom. (CAS 64742-95-6)	
Acute		
Inhalation LC50	Rat	73680 mg/l, 4 Hours
2030	Nat	-
Overl		61 mg/l, 4 Hours
<b>Oral</b> LD50	Rat	> 25 ml/kg
	Rat	> 25 ml/kg
Other	Dobbit	> E malka A Houra
LD50	Rabbit	> 5 mg/kg, 4 Hours
SULPHURIC ACID (CAS 7664-93	3-9)	
<u>Acute</u> Inhalation		
LC50	Guinea pig	0.03 mg/l, 8 Hours
2000	Camba pig	0.018 mg/l, 8 Hours
	Rat	-
01	Rat	347 mg/l, 1 Hours
<b>Oral</b> LD50	Rat	2140 mg/kg
		2 140 Hig/kg
TRIMETHYLBENZENE (CAS 255	51-13-7)	
<u>Acute</u> Oral		
LD50	Rat	8970 mg/kg
Skin corrosion/irritation	Causes skin irritation.	ooro mgmg
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to	o cause skin sensitization.
Germ cell mutagenicity	No data available to indicate p mutagenic or genotoxic.	product or any components present at greater than 0.1% are
Carcinogenicity	Suspected of causing cancer.	
IARC Monographs. Overall	<b>Evaluation of Carcinogenicity</b>	
CUMENE (CAS 98-82-8)		2B Possibly carcinogenic to humans.
NAPHTHALENE (CAS 9		2B Possibly carcinogenic to humans.
SULPHURIC ACID (CAS	ruo4-90-9)	1 Carcinogenic to humans.

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## **US. National Toxicology Program (NTP) Report on Carcinogens**

**CUMENE (CAS 98-82-8)** Reasonably Anticipated to be a Human Carcinogen. NAPHTHALENE (CAS 91-20-3) Reasonably Anticipated to be a Human Carcinogen.

SULPHURIC ACID (CAS 7664-93-9) Known To Be Human Carcinogen.

Components in this product have been shown to cause birth defects and reproductive disorders in Reproductive toxicity

laboratory animals.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Chronic effects** May be harmful if absorbed through skin. Prolonged inhalation may be harmful.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Prolonged exposure may cause chronic effects.

# 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

**Ecotoxicity** 

Calculated/Test Results Components **Species** 

1,2,4-TRIMETHYLBENZENE (CAS 95-63-6)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 7.19 - 8.28 mg/l, 96 hours

2-BUTOXYETHANOL (CAS 111-76-2)

Aquatic

Fish LC50 Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours

Ammonia, aqueous solution (CAS 1336-21-6)

Aquatic

LC50 Western mosquitofish (Gambusia affinis) 15 mg/l, 96 hours Fish

**CUMENE (CAS 98-82-8)** 

Aquatic

Crustacea EC50 Brine shrimp (Artemia sp.) 3.55 - 11.29 mg/l, 48 hours

Fish LC50 Rainbow trout, donaldson trout 2.7 mg/l, 96 hours

(Oncorhynchus mykiss)

NAPHTHALENE (CAS 91-20-3)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 1.09 - 3.4 mg/l, 48 hours LC50 Fish Pink salmon (Oncorhynchus gorbuscha) 0.95 - 1.62 mg/l, 96 hours

Solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)

Aquatic

Crustacea EC50 Water flea (Daphnia pulex) 2.7 - 5.1 mg/l, 48 hours

Fish LC50 Rainbow trout, donaldson trout 8.8 mg/l, 96 hours

(Oncorhynchus mykiss)

8.8 mg/l, 96 hours

Solvent naphtha (petroleum), light arom. (CAS 64742-95-6)

Aquatic

Crustacea EC50 Water flea (Daphnia pulex) 2.7 - 5.1 mg/l, 48 hours Fish

LC50 Rainbow trout, donaldson trout 8.8 mg/l, 96 hours

(Oncorhynchus mykiss)

8.8 mg/l, 96 hours

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Components Calculated/Test Results Species

SULPHURIC ACID (CAS 7664-93-9)

**Aquatic** 

Fish LC50 Western mosquitofish (Gambusia affinis) 42 mg/l, 96 hours

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

1,4-Diethylbenzene 4.45 2-BUTOXYETHANOL 0.83 4-METHYLPENTAN-2-OL 1.43 **CUMENE** 3.66 **NAPHTHALENE** 3.3 tert-Butylbenzene 4.11

No data available. Mobility in soil

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

> material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

D018: Waste Benzene

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

DOT

<Unspecified>

**UN** number UN1268

**UN proper shipping name** Petroleum distillates, n.o.s.

Transport hazard class(es)

3 **Class** Subsidiary risk 3 Label(s) Ш Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

<Unspecified>

**UN** number UN1268

PETROLEUM DISTILLATES, N.O.S. **UN proper shipping name** 

Transport hazard class(es)

Class 3 Subsidiary risk 3 Label(s) Ш Packing group No. **Environmental hazards** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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#### **IMDG**

## <Unspecified>

**UN** number UN1268

**UN** proper shipping name

PETROLEUM DISTILLATES, N.O.S.

Transport hazard class(es)

Class 3 Subsidiary risk 3 Label(s) Ш Packing group

**Environmental hazards** 

Marine pollutant No.

Not available. **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not established.

Transport in bulk according to

Annex II of MARPOL 73/78 and the IBC Code

DOT



IATA; IMDG



# 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

2-BUTOXYETHANOL (CAS 111-76-2) Listed. Ammonia, aqueous solution (CAS 1336-21-6) Listed. NAPHTHALENE (CAS 91-20-3) Listed.

SARA 304 Emergency release notification

1000 LBS SULPHURIC ACID (CAS 7664-93-9)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)	
SLII DHLIDIC VCID	7664 03 0	1000	1000			

SULPHURIC ACID 7664-93-9 1000 1000

SARA 311/312 Hazardous Yes

chemical

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Classified hazard categories

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

Carcinogenicity

### SARA 313 (TRI reporting)

CAS number	% by wt.	
95-63-6	2 - < 7	
111-76-2	13 - 16	
1336-21-6	1 - 2	
91-20-3	0.6 - 2	
	95-63-6 111-76-2 1336-21-6	95-63-6 2 - < 7 111-76-2 13 - 16 1336-21-6 1 - 2

### Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

**CUMENE (CAS 98-82-8)** 

NAPHTHALENE (CAS 91-20-3)

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

SULPHURIC ACID (CAS 7664-93-9)

Safe Drinking Water Act

Not regulated.

(SDWA)

### **US state regulations**

# California Proposition 65



WARNING: This product can expose you to chemicals including 4-METHYLPENTAN-2-ONE, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

4-METHYLPENTAN-2-ONE (CAS 108-10-1) Listed: November 4, 2011

#### California Proposition 65 - CRT: Listed date/Developmental toxin

4-METHYLPENTAN-2-ONE (CAS 108-10-1) Listed: March 28, 2014

### **International Inventories**

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

## 16. Other information, including date of preparation or last revision

Issue date 07-30-2018 07-30-2018 **Revision date** 

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**HMIS®** ratings Health: 3

Flammability: 2 Physical hazard: 1

**NFPA** ratings Health: 2

> Flammability: 2 Instability: 0

**Preparation Information and** 

Disclaimer

This document was prepared by FCSD-Toxicology, Ford Motor Company, Fairlane Business Park IV, 17225 Federal Drive, Allen Park, MI 48101, USA, based in part on information provided by the manufacturer. The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user. To the extent that there are any differences between this product's Safety Data Sheet (SDS) and the consumer packaged product labels, the SDS should be followed.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.

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