

# SAFETY DATA SHEET

### 1. Identification

Product identifier	Premium Fuel Injector Cleaner
Other means of identification	
FIR No.	179104
Recommended use	Fuel injector cleaner
<b>Recommended restrictions</b>	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
0 Herend(a) identification	

### 2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 4
Health hazards	Skin corrosion/irritation	Category 2
	Carcinogenicity	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger
Hazard statement	Combustible liquid. May be fatal if swallowed and enters airways. Causes skin irritation. Suspected of causing cancer.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces No smoking. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%	
Distillates (petroleum), hydrotreated light		64742-47-8	38 - < 46	
Kerosine (petroleum)		8008-20-6	23.4	
NAPHTHALENE		91-20-3	< 0.7	
	Specific chemical identity and/or exact percentage (conc	centration) of composition has been with	held as a trade secret.	
4. First-aid measures				
Inhalation	Move to fresh air. Call a physician if sympton			
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.			
Eye contact	Rinse with water. Get medical attention if irrit	ation 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	Aspiration may cause pulmonary edema and pneumonitis. Headache. Nausea, vomiting. Diarrhe Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain.			
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.			
General information	IF exposed or concerned: Get medical advice of the material(s) involved, and take precauti		al personnel are awar	
5. Fire-fighting measures				
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemi	ical powder. Dry chemicals. Ca	rbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as th	nis will spread the fire.		
Specific hazards arising from the chemical	The product is combustible, and heating may mixtures. During fire, gases hazardous to he emits carbon monoxide, carbon dioxide and/	alth may be formed. Upon dec	omposition, this produ	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	protective clothing must be wor	n 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 so without risk. Cool containers exposed to heat with water spray and remove container, if no ris is involved.			
Specific methods	Use standard firefighting procedures and cor	nsider the hazards of other invo	olved materials.	
General fire hazards	Combustible liquid. Will burn if involved in a	fire.		
6. Accidental release meas	sures			
Personal precautions, protective equipment and emergency procedures	Avoid contact with eyes, skin, and clothing. A ventilation. Do not touch damaged container protective clothing. Keep people away from a away. Eliminate all ignition sources (no smok Local authorities should be advised if signific protective equipment and clothing during clear SDS.	s or spilled material unless wea and upwind of spill/leak. Keep u king, flares, sparks, or flames in cant spillages cannot be contail	aring appropriate unnecessary personne n immediate area). ned. Wear appropriate	
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.			
	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 r containers. For waste disposal, see section 2		covered, labeled	
		<b></b>		

Environmental precautions

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. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Avoid prolonged exposure. Use only in well-ventilated areas. When using do not smoke. Keep away from open flames, hot surfaces and sources of ignition. Should be handled in closed systems, if possible. 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 and sources of ignition. 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)

US ACGIH Threshold Limit Values: Skin designationKerosine (petroleum) (CAS 8008-20-6)DNAPHTHALENE (CAS 91-20-3)Dpropriate engineering ntrolsProvide eyewash station and safe concentrations below the exposu and/or mist, use process enclosu controls to control airborne levelslividual protection measures, Eye/face protection Hand protectionSuitable chemical protective glow The choice of an appropriate glow	50 mg/m3		
ComponentsTypeKerosine (petroleum) (CASTWA8008-20-6)TWANAPHTHALENE (CASTWA91-20-3)US. NIOSH: Pocket Guide to Chemical HazardsComponentsTypeDistillates (petroleum), hydrotreated light (CAS 64742-47-8)TWAKerosine (petroleum) (CASTWA8008-20-6)NAPHTHALENE (CASNAPHTHALENE (CASSTEL91-20-3)TWATWANo biological exposure limits noteoscure guidelinesUS - California OELs: Skin designation NAPHTHALENE (CAS 91-20-3)Comportate engineering trolsProvide eyewash station and safe concentrations below the exposu and/or mist, use process enclosu controls to control airborne levelsvidual protection Hand protectionSuitable chemical protective equ Wear safety glasses with side shSkin protection Hand protectionSuitable chemical protective glow The choice of an appropriate glow The choi			
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NAPHTHALENE (CAS 91-20-3)       C         US ACGIH Threshold Limit Values: Skin designation       Kerosine (petroleum) (CAS 8008-20-6)       D         NAPHTHALENE (CAS 91-20-3)       D         propriate engineering       Provide eyewash station and safe concentrations below the exposu and/or mist, use process enclosu controls to control airborne levels         ividual protection measures, such as personal protective equination       Wear safety glasses with side ships         Skin protection       Suitable chemical protective glow The choice of an appropriate glow			
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Eye/face protectionWear safety glasses with side shipSkin protectionSuitable chemical protective glow The choice of an appropriate glow	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, appropriate local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits/guidelines.		
Hand protectionSuitable chemical protective glowThe choice of an appropriate glow			
Hand protectionSuitable chemical protective glowThe choice of an appropriate glow			
chloride (PVC).	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. Use protective gloves made of: Polyvinyl chloride (PVC).		
Other Wear appropriate chemical resist	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

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Appearance	
Physical state	Liquid.
Form	
Color	CLEAR YELLOW
Odor	Hydrocarbon-like.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	150.0 °F (65.6 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	0.855 (Water=1)
Solubility(ies)	
Solubility (water)	Miscible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	< 20 cSt
Viscosity temperature	104 °F (40 °C)
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. 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	Based on available data, the classification criteria are not met. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Based on available data, the classification criteria are not met. Direct contact with eyes may cause temporary irritation.

Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. Headache. Nausea, vomiting. Diarrhea. Skin irritation. May cause redness and pain.

# Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways.

Components	Species	Calculated/Test Results	
NAPHTHALENE (CAS 91-20-3)			
Acute			
<b>Dermal</b> LD50	Rabbit		
EDS0		> 2 g/kg	
	Rat	> 20 g/kg	
<b>Oral</b> LD50		1200 ma/ka	
EDS0	Guinea pig	1200 mg/kg	
	Rat	2400 mg/kg	
		2200 mg/kg	
		490 mg/kg	
		2.6 g/kg	
Other LD50	Mouse		
EDS0	wouse	969 mg/kg	
		710 mg/kg	
		533 mg/kg	
		150 mg/kg	
		100 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Direct contact with eyes may	cause temporary irritation.	
Respiratory or skin sensitization			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Suspected of causing cancer.		
	Evaluation of Carcinogenicity		
NAPHTHALENE (CAS 91-20-3) 2B Possibly carcinogenic to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)			
Not listed.	u Substances (29 CFR 1910.1	001-1055)	
	gram (NTP) Report on Carcin	ogens	
NAPHTHALENE (CAS 91			
Reproductive toxicity	This product is not expected t	o cause reproductive or developmental effects.	
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	Prolonged inhalation may be harmful.		
12. Ecological information			
Ecotoxicity	The product is not classified a	is environmentally hazardous. However, this does not exclude the nt spills can have a harmful or damaging effect on the environment.	

ComponentsSpeciesCalculated/Test ResultsDistillates (petroleum), hydreted light (CAS 4742-47-8)AquaticFishLC50Rainbow trout, donaldson trout (Oncorhynchus mykiss)2.9 mg/l, 96 hoursNAPHTHALENE (CAS 91-20-3)AquaticCrustaceaEC50Water flea (Daphnia magna)1.09 - 3.4 mg/l, 48 hoursFishLC50Pink salmon (Oncorhynchus gorbuscha)0.95 - 1.62 mg/l, 96 hoursPersistence and degradabilityNo data is available on the degradability of any ingredients in the mixture.Partition coefficient n-ocefficient n-oceffic
Aquatic       Fish       LC50       Rainbow trout, donaldson trout (Oncorhynchus mykiss)       2.9 mg/l, 96 hours         NAPHTHALENE (CAS 91-20-3)       (Oncorhynchus mykiss)       Aquatic       1.09 - 3.4 mg/l, 48 hours         Crustacea       EC50       Water flea (Daphnia magna)       1.09 - 3.4 mg/l, 48 hours         Fish       LC50       Pink salmon (Oncorhynchus gorbuscha)       0.95 - 1.62 mg/l, 96 hours         Persistence and degradability       No data is available on the degradability of any ingredients in the mixture.         Bioaccumulative potential       No data is available on the degradability of any ingredients in the mixture.         MAPHTHALENE       3.3
FishLC50Rainbow trout, donaldson trout (Dncorhynchus mykiss)2.9 mg/l, 96 hoursNAPHTHALENE (CAS 91-20-3)AquaticCrustaceaEC50Water flea (Daphnia magna)1.09 - 3.4 mg/l, 48 hoursFishLC50Pink salmon (Oncorhynchus gorbuscha)0.95 - 1.62 mg/l, 96 hoursPersistence and degradabilityNo data is autible on the degradability of any ingredieute.Bioaccumulative potentialPartition coefficient n-oct / water (log to state)3.3
Image: NAPHTHALENE (CAS 91-20-3)       Image: Napper Structure         Aquatic       Crustacea       EC50       Water flea (Daphnia magna)       1.09 - 3.4 mg/l, 48 hours         Fish       LC50       Pink salmon (Oncorhynchus gorbuscha)       0.95 - 1.62 mg/l, 96 hours         Persistence and degradability       No data is available on the degradability of any ingredients in the mixture.         Bioaccumulative potential       Partition coefficient n-octamol / water (log Kow)         NAPHTHALENE       3.3
Aquatic       Crustacea       EC50       Water flea (Daphnia magna)       1.09 - 3.4 mg/l, 48 hours         Fish       LC50       Pink salmon (Oncorhynchus gorbuscha)       0.95 - 1.62 mg/l, 96 hours         Persistence and degradability       No data is available on the degradability of any ingredients in the mixture.         Bioaccumulative potential       Notata is available on the degradability of any ingredients in the mixture.         Partition coefficient n-octarol / water (log Kow)       3.3
Crustacea       EC50       Water flea (Daphnia magna)       1.09 - 3.4 mg/l, 48 hours         Fish       LC50       Pink salmon (Oncorhynchus gorbuscha)       0.95 - 1.62 mg/l, 96 hours         Persistence and degradability       No data is available on the degradability of any ingredients in the mixture.         Bioaccumulative potential       No data is available on the degradability of any ingredients in the mixture.         Partition coefficient n-octamol / water (log Kow)       3.3
Fish       LC50       Pink salmon (Oncorhynchus gorbuscha)       0.95 - 1.62 mg/l, 96 hours         Persistence and degradability       No data is available on the degradability of any ingredients in the mixture.         Bioaccumulative potential       Partition coefficient n-octanol / water (log Kow)         NAPHTHALENE       3.3
Persistence and degradability       No data is available on the degradability of any ingredients in the mixture.         Bioaccumulative potential       Partition coefficient n-octanol / water (log Kow)         NAPHTHALENE       3.3
Bioaccumulative potential Partition coefficient n-octanol / water (log Kow) NAPHTHALENE 3.3
Partition coefficient n-octanol / water (log Kow) NAPHTHALENE 3.3
NAPHTHALENE 3.3
Mobility in soil         No data available. This product is miscible in water and may not disperse in soil.
Other adverse effectsNo 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. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>_ocal disposal regulations</b> Dispose in accordance with all applicable regulations.
Hazardous waste code       D018: Waste Benzene         The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Naste from residues / unused productsDispose 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).
<b>Contaminated packaging</b> Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
14. Transport information
тот
Not regulated as dangerous goods.
ΑΤΑ
Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

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

### 15. Regulatory information

#### **US federal regulations**

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

### Toxic Substances Control Act (TSCA)

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

Not regulated.

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

Not listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	Yes		
Classified hazard categories	Flammable (gases, ae Skin corrosion or irritat Carcinogenicity Aspiration hazard	rosols, liquids, or solids) ion	
SARA 313 (TRI reporting)			
Chemical name		CAS number	% by wt.
NAPHTHALENE		91-20-3	< 0.7
Other federal regulations			
Clean Air Act (CAA) Section	n 112 Hazardous Air Pol	lutants (HAPs) List	
NAPHTHALENE (CAS 9 Clean Air Act (CAA) Section		ase Prevention (40 CFR	68.130)
Not regulated.			
Safe Drinking Water Act (SDWA)	Contains component(s	) regulated under the Safe	e Drinking Water Act.
US state regulations			
California Proposition 65			
		and birth defects or other	BENZENE, which is known to the State of reproductive harm. For more information go
California Proposition	65 - CRT: Listed date/Ca	rcinogenic substance	
BENZENE (CAS 71-	-43-2)	Listed: February	27, 1987
California Proposition 65 - CRT: Listed date/Developmental toxin			
•	BENZENE (CAS 71-43-2) Listed: December 26, 1997		
California Proposition 65 - CRT: Listed date/Male reproductive toxin			
BENZENE (CAS 71	-43-2)	Listed: Decembe	r 26, 1997

#### 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 Revision date Version	10-21-2022 10-21-2022 02 Health: 2
	02
Version	
	Health: 2
HMIS® ratings	Flammability: 2 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
Preparation Information and Disclaimer	This document was prepared by FCSD-Toxicology, Ford Motor Company, Diagnostic Service Center II, 1800 Fairlane 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.
Part number(s)	PM-6