

# SAFETY DATA SHEET

#### 1. Identification

**Product identifier Anti-Gel & Performance Improver** 

Other means of identification

FIR No. 178695

Recommended use Diesel fuel additive 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** 

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

**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 hazards Flammable liquids Category 4 **Health hazards** Carcinogenicity Category 2 Aspiration hazard Category 1 Category 3

**Environmental hazards** Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word

Combustible liquid. May be fatal if swallowed and enters airways. Suspected of causing cancer. **Hazard statement** 

Harmful to aquatic life. Harmful 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 flames and hot surfaces. - No smoking. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Category 3

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF Response

exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to

extinguish. Take off contaminated clothing and wash it before reuse.

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

**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**

FIR No.: 178695 SDS US Version: 01 1/9

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated light		64742-47-8	86.2
Solvent naphtha (petroleum), heavy arom.		64742-94-5	6
1,2,4-TRIMETHYLBENZENE		95-63-6	3.7
Solvent naphtha (petroleum), light arom.		64742-95-6	3.6
NAPHTHALENE		91-20-3	0.5

#### 4. First-aid measures

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

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. 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

Direct contact with eyes may cause temporary irritation.

Aspiration may cause pulmonary edema and pneumonitis. Headache. Nausea, vomiting. Diarrhea.

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/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

from

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters Fire fighting

equipment/instructions

Specific methods
General fire hazards

Water fog. Alcohol resistant foam. Dry chemical powder. Dry chemicals. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

The product is combustible, and heating may generate vapors which may form explosive vapor/air

mixtures. During fire, gases hazardous to health may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

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

Combustible liquid. Will burn if involved in a fire.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Avoid contact with eyes, skin, and clothing. Do not breathe mist/vapors. Ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. 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.

FIR No.: 178695 SDS US
Version: 01 2 / 9

## 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. 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 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 Cor Components	ntaminants (29 CFR 1910.1000) Type	Value	
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	
,		100 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
1,2,4-TRIMETHYLBENZEN E (CAS 95-63-6)	TWA	25 ppm	
NAPHTHALENE (CAS 91-20-3)	TWA	10 ppm	
Solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)	TWA	200 mg/m3	Non-aerosol.
US. NIOSH: Pocket Guide to Chemical	l Hazards		
Components	Туре	Value	
1,2,4-TRIMETHYLBENZEN E (CAS 95-63-6)	TWA	125 mg/m3	
		25 ppm	
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	100 mg/m3	
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	
•		100 ppm	
Solvent naphtha (petroleum), light arom. (CAS 64742-95-6)	TWA	400 mg/m3	
(3.13.317.12.33.3)		100 ppm	

FIR No.: 178695 SDS US Version: 01

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

US - California OELs: Skin designation

NAPHTHALENE (CAS 91-20-3) Can be absorbed through the skin.

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

NAPHTHALENE (CAS 91-20-3) Danger of cutaneous absorption Solvent naphtha (petroleum), heavy arom. Danger of cutaneous absorption

(CAS 64742-94-5)

Appropriate engineering

controls

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.

Individual protection measures, such as personal protective equipment

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

Skin protection

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

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 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** 

Liquid. Physical state Liquid. **Form** Color Amber. Odor Aliphatic. Odor threshold Not available. Not available. pН Melting point/freezing point Not available. Not available. Initial boiling point and boiling

range

Flash point 170.0 - 180.0 °F (76.7 - 82.2 °C)

**Evaporation rate** < 1 (Ether=1) Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Explosive limit - lower (%) 0.6 % Explosive limit - upper (%) 5.5 %

Vapor pressure Not available. Not available. Vapor density 0.815 - 0.835Relative density

Solubility(ies)

Solubility (water) Insoluble Not available. Partition coefficient

(n-octanol/water)

Issue Date: 03-22-2023

Auto-ignition temperature 215 °F (101.67 °C) **Decomposition temperature** > 212 °F (> 100 °C)

3 - 5 cSt Viscosity

FIR No.: 178695 SDS US Version: 01

104 °F (40 °C) Viscosity temperature

Other information

VOC 100 %

# 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

decomposition temperature. 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

Based on available data, the classification criteria are not met. Prolonged inhalation may be Inhalation

harmful.

Skin contact Based on available data, the classification criteria are not met. Prolonged skin contact may cause

temporary irritation.

Eye contact Based on available data, the classification criteria are not met. Direct contact with eyes may

cause temporary irritation.

Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious Ingestion

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Aspiration may cause pulmonary edema and pneumonitis. Headache. Nausea, vomiting.

Diarrhea.

#### Information on toxicological effects

May be fatal if swallowed and enters airways. **Acute toxicity** 

Components	Species	Calculated/Test Results	
1,2,4-TRIMETHYLBENZEI	NE (CAS 95-63-6)		
<u>Acute</u>			
Dermal	D 11.7	0400 #	
LD50	Rabbit	> 3160 mg/kg	
Inhalation			
LC50	Rat	> 2000 ppm, 48 Hours	
Oral			
LD50	Rat	6 g/kg	
NAPHTHALENE (CAS 91-	20-3)		
<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	
		2.6 g/kg	
Other		<b>5 5</b>	
LD50	Mouse	969 mg/kg	
		710 mg/kg	
		533 mg/kg	

FIR No.: 178695 SDS US 5/9

Version: 01 Issue Date: 03-22-2023 Components Species Calculated/Test Results

150 mg/kg 100 mg/kg

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

<u>Acute</u>

Inhalation

LC50 Rat 73680 mg/l, 4 Hours

61 mg/l, 4 Hours

Oral

LD50 Rat > 25 ml/kg

Other

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

61 mg/l, 4 Hours

Oral

LD50 Rat > 25 ml/kg

Other

LD50 Rabbit > 5 mg/kg, 4 Hours

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation. **Serious eye damage/eye** Direct contact with eyes may cause temporary irritation.

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

NAPHTHALENE (CAS 91-20-3) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

NAPHTHALENE (CAS 91-20-3) Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

**Reproductive toxicity** This product is not expected to 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. Prolonged exposure may cause chronic effects.

12. Ecological information

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

**Ecotoxicity** 

Components Species Calculated/Test Results

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

**Aquatic** 

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

FIR No.: 178695 SDS US
Version: 01 6 / 9

Components **Species** Calculated/Test Results

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Aquatic

Fish LC50 Rainbow trout, donaldson trout 2.9 mg/l, 96 hours

(Oncorhynchus mykiss)

NAPHTHALENE (CAS 91-20-3)

**Aquatic** 

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

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

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)

1,2,4-TRIMETHYLBENZENE 3.78 **NAPHTHALENE** 3.3

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

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

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

Not established.

FIR No.: 178695 SDS US Version: 01

## 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 Yes

chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

categories Carcinogenicity
Aspiration hazard

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
1,2,4-TRIMETHYLBENZENE	95-63-6	3.7
NAPHTHALENE	91-20-3	0.5

#### Other federal regulations

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

NAPHTHALENE (CAS 91-20-3)

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

**US state regulations** 

California Proposition 65

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WARNING: This product can expose you to NAPHTHALENE, which is known to the State of California to

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

California Proposition 65 - CRT: Listed date/Carcinogenic substance

NAPHTHALENE (CAS 91-20-3) Listed: April 19, 2002

**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 03-22-2023

Version 01

HMIS® ratings Health: 2 Flammability: 2

Physical hazard: 0

NFPA ratings Health: 2

Flammability: 2 Instability: 0

FIR No.: 178695 SDS US

Version: 01 8 / 9

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-23-A, PM-23-ASU, PM-23-GAL

FIR No.: 178695 SDS US Version: 01 9 / 9