

***** Section 1 - Chemical Product and Company Identification *****

Product Numbers: 32943F(24/235 ml); 29409F/I/S (12/470 ml); 31845F/I/S (6/1.9 l); 29410F/I/S (1/19 l); 29411F/I/S (1/208 l)

Chemical Name: Mixture

Product Use: Diesel Fuel Additive

Company Information

Stanadyne Corporation
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Emergency # CHEMTREC 00-1- 703-527-3887

***** Section 2 - Composition / Information on Ingredients *****

CAS #	EINECS #	Component	Percent	Classification
8052-41-3	232-489-2	Stoddard solvent	30-50	Carc. Cat. 2: R45; Xn: R65
27247-96-7	248-363-6	2-Ethylhexyl nitrate	20-30	Xn: R20-65; N: R51/53
64742-94-5	265-198-5	Naphtha (petroleum), heavy aromatic	10-30	R 10; Xn: R36/38-65; N: R51/53
111-76-2	203-905-0	2-Butoxyethanol	3-7	Xn: R20/21/22-36/38
25551-13-7	247-099-9	Trimethylbenzene	3-7	Xn; R21/22-38
95-63-6	202-436-9	1,2,4-Trimethylbenzene	1-3	R 10;Xn: R20-36/37/38; N: R51/53
91-20-3	202-049-5	Naphthalene	1-3	Carc. Cat. 3 R 40; Xn: R22; N: R50/53
108-05-4	203-545-4	Vinyl acetate	0.1-0.3	R 11

***** Section 3 – Hazards Identification *****

Emergency Overview

WARNING Flammable liquid and vapor.

Harmful: may cause lung damage if swallowed. This product is irritating to the eyes and skin. Excessive inhalation of this material may cause headache, dizziness and incoordination. This product may cause nervous system effects including peripheral neuropathy.

Irritating and toxic vapors may be released upon combustion of product. Extinguish fire with carbon dioxide, dry chemical, foam or water fog.

***** Section 4 - First Aid Measures *****

First Aid: Eyes

Quickly and gently blot away excess chemical. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the chemical is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Seek immediate medical attention.

First Aid: Skin

Remove contaminated clothing. Quickly and gently blot away excess chemical. Wash gently and thoroughly with warm water and non-abrasive soap for 20 minutes or until the chemical is removed. Get medical attention if skin disorder develops.

First Aid: Ingestion

Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 8 to 10 oz of water to dilute material in stomach. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Repeat administration of water. Seek immediate medical attention or advice.

First Aid: Inhalation

If affected, remove source of contamination or move individual to fresh air. If the affected person is not breathing, trained personnel should begin artificial respiration immediately. Seek medical attention if symptoms persist. If overcome by vapor from hot product, immediately remove to fresh air and call a physician.

First Aid: Notes to Physician

Pulmonary aspiration hazard if swallowed; treat symptomatically.

Safety Data Sheet

Material Name: Performance Formula®

ID: 2601

*** Section 5 - Fire Fighting Measures ***

Flash Point: 46.8° C (by Pensky Martens Closed Cup)

General Fire Hazards

Fire and explosion hazards are moderate when this product is exposed to heat or flame. Liquid can burn upon heating to temperatures at or above the flash point. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.

Hazardous Combustion Products

Irritating and toxic gases or fumes may be released during a fire. Upon combustion, this product may yield oxides of nitrogen, carbon monoxide, carbon dioxide, and/or other low molecular weight hydrocarbons.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog. Use water to cool fire-exposed containers and to protect personnel. Direct water spray or foam may cause frothing and spattering. If a leak or spill has not ignited, use water spray to disperse vapors and to flush spills away from exposure.

Fire Fighting Equipment/Instructions

Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Stop the flow of material, if this can be done without risk.

Clean-Up Procedures

Absorb with non-flammable suitable absorbent such as sand or earth. Scoop up used absorbent into drums or other appropriate container.

Evacuation Procedures

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Special Procedures

Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Surfaces may become slippery after spillage. Wear appropriate protective equipment and clothing during clean-up. Do not allow the product to enter public drainage systems or open water courses. If product is spilled, notify appropriate authorities at the local and federal levels.

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid prolonged or repeated skin contact with this material. Avoid getting this material into contact with your eyes. Avoid the generation of oil mists. Wash thoroughly after handling. Use this product with adequate ventilation. Discard any shoes or clothing items that cannot be decontaminated.

Storage Procedures

Do not store near heat, sparks, open flame or strong oxidizing agents. Do not store this material in open or unlabeled containers. Store drums in covered area with secondary containment. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode. Follow appropriate grounding procedures.

Safety Data Sheet

Material Name: Performance Formula®

ID: 2601

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

Follow all applicable exposure limits. Supplier recommends a permissible exposure limit (PEL) of 5 mg/m³ and a short-term exposure limit (STEL) of 10 mg/m³ under conditions that may generate oil mists. In addition to the value indicated below, industrial hygienists should consult applicable exposure limits of the country where the product is used.

B: Component Exposure Limits

Compound	ACGIH		Germany
	TWA	STEL	MAK
Stoddard solvent	100 ppm	N/E	N/E
2-Butoxyethanol	20 ppm (S)	N/E	20 ppm (S)
1,2,4-Trimethylbenzene	25 ppm	N/E	N/E
Trimethylbenzene	25 ppm	N/E	N/E
Vinyl acetate	10 ppm	15 ppm	10 ppm (C)
Naphthalene	10 ppm	15 ppm	10 ppm

(S) – skin exposure

(C) – carcinogen

N/E – none established

Engineering Controls

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses. Wear chemical goggles or faceshield if mist is likely to occur.

Personal Protective Equipment: Skin

Use impervious gloves. Wear oil-impervious garments if contact is unavoidable.

Personal Protective Equipment: Respiratory

In the event of excessive exposure to vapors/mists/fumes, use approved respiratory equipment. Respirator should be selected on the basis of form and concentration of contaminant.

Personal Protective Equipment: General

Use good hygiene when handling petroleum product. Launder contaminated clothing before reuse. Excessive misting may cause slippery floors - wear appropriate footwear. Eye wash fountains are recommended.

*** Section 9 - Physical & Chemical Properties ***

Appearance: Amber colored
Physical State: Liquid
Solubility (H₂O): Negligible

Odor: Oil / solvent
Specific Gravity: 0.86

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable

Incompatibility

This product may react with strong oxidizing agents.

Hazardous Decomposition

Decomposition of this product may yield oxides of nitrogen, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Hazardous Polymerization

Hazardous polymerization will not occur.

Safety Data Sheet

Material Name: Performance Formula®

ID: 2601

*** Section 11 - Toxicological Information ***

No data available on product as a whole.

CAS #	Component	Percent	LD50 – Oral (rat)	LD50 – Dermal (rabbit)	LC50 – Inhalation (rat)
8052-41-3	Stoddard solvent	30-50	> 5000 mg/kg	Not available	< 5,500 mg/m3 (4H)
111-76-2	2-Butoxyethanol	3-7	470 mg/ kg	220 mg/kg	450 ppm (4H)
25551-13-7	Trimethylbenzene	3-7	8970 mg/kg	Not available	Not available
95-63-6	1,2,4-Trimethylbenzene	1-3	5 g/kg	Not available	18 g/m3 (4H)
91-20-3	Naphthalene	1-3	490 mg/kg	> 20 g/kg	> 340 mg/m3 (1H)
108-05-4	Vinyl acetate	0.1-0.3	2920 mg/kg	2335 mg/kg	11400 mg/m3 (4H)

Potential Health Effects: Eyes

This product is irritating to the eyes. Effects may include a burning sensation, redness, swelling and/or blurred vision.

Potential Health Effects: Skin

This product is irritating to the skin. Prolonged or repeated contact with this product may dry and/or defat the skin. Symptoms may include redness, edema, drying or cracking of skin. Blisters and sores may develop. Product contains component(s) that can be harmful if absorbed through the skin. May cause allergic reaction in susceptible individuals.

Potential Health Effects: Ingestion

This product is harmful if swallowed. May cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. Ingestion of this product may cause headache, dizziness, uncoordination, and general weakness. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury, possibly death. Ingestion of this product may cause red blood cell hemolysis and possible liver and kidney injury.

Potential Health Effects: Inhalation

Harmful if inhaled. Inhalation of oil mists or fumes can cause irritation of the mucous membranes and upper respiratory tract. Excessive inhalation of this material causes headache, dizziness, nausea, stupor, and other central nervous system effects leading to visual impairment, difficulty breathing, memory loss, convulsions and uncoordination. Repeated and prolonged overexposure to oil mists may result in droplet deposition, oil granuloma formation, inflammation and increased incidence of infection. Breathing of vapor or mist may aggravate asthma and inflammatory or fibrotic pulmonary disease.

*** Section 12 - Ecological Information ***
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No ecotoxicity or environmental fate data available on product as a whole.

CAS #	Component	Percent	LC50 – 96 hr - mg/L	EC50 Water flea - mg/L	EC 50 photobacterium phosphoreum mg/L
111-76-2	2-Butoxyethanol	3-7	Bluegill-1490	(24 hr) 1720	Not available
95-63-6	1,2,4-Trimethylbenzene	1-3	Fathead minnow- 77.2	Not available	Not available
91-20-3	Naphthalene	1-3	Fathead minnow- 6.14	(48 hr) 2.16-8.6	(30 min) 0.93
108-05-4	Vinyl acetate	0.1-0.3	Fathead minnow– 31.0 Bluegill– 31.0 Goldfish- 31.0	(24 hr) 52.0	Not available

Safety Data Sheet

Material Name: Performance Formula®

ID: 2601

*** Section 13 - Disposal Considerations ***

Disposal Instructions

Dispose of waste material according to local and federal environmental regulations. Do not allow this material to drain into sewers/water supplies. Material should be recycled if possible.

*** Section 14 – Transportation Information ***

General Transportation Information

NOTE: Information in this section (Section 14) is presented as a guide only. Requirements may vary depending upon package size and exceptions used, if any. Follow current, applicable requirements under ADR/RID, IMO/IMDG, ICAO/IATA to ensure regulatory compliance.

ADR/RID

UN1268, Petroleum distillates, n.o.s., 3, PGIII, ADR, Aquatic Pollutant (2-ethylhexyl nitrate, petroleum naphthas)

Label: Flammable liquid

Hazard Identification Number: 30

International Transportation Regulations

ICAO/IATA

UN1268, Petroleum distillates, n.o.s., 3, PGIII, Marine Pollutant (2-ethylhexyl nitrate, petroleum naphthas)

Label: Flammable liquid.

IMO/IMDG

UN1268, Petroleum distillates, n.o.s., 3, PGIII, (46.8°C c.c.) Marine Pollutant (2-ethylhexyl nitrate, petroleum naphthas)

EmS: F-E, S-E

Label: Flammable liquid

*** Section 15 – Regulatory Information ***

European Regulations

All components of this product are listed in the EINECS Inventory or exempt from listing.

Classification

Carc. Cat. 3 R 40; Xn: R20-36/38-65; R10; N: R51/53

Limited evidence of a carcinogenic effect

Harmful by inhalation

Irritating to eyes and skin

Harmful: may cause lung damage if swallowed

Flammable

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Data Sheet

Material Name: Performance Formula®

ID: 2601

*** Section 16 - Other Information ***

Risk phrase key

- R10 Flammable
- R11 Highly flammable
- R20 Harmful by inhalation
- R21 Harmful in contact with skin
- R22 Harmful if swallowed
- R36 Irritating to eyes
- R37 Irritating to respiratory system
- R38 Irritating to skin
- R40 Limited evidence of a carcinogenic effect.
- R45 May cause cancer
- R65 Harmful: may cause lung damage if swallowed
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Other Information

The information and recommendations presented in this Safety Data Sheet are based on sources believed to be reliable on the date hereof. Stanadyne Corporation makes no representation on its completeness or accuracy. This product is sold "as is" and it is the user's responsibility to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. The statements and descriptions provided are informational only and no representations or warranties, either expressed or implied, of merchantability or fitness for a particular purpose or of any other nature are made with respect to the information provided in this Safety Data Sheet or to the product to which such information refers. Stanadyne Corporation neither assumes nor authorizes any other person to assume for it, any other or additional liability or responsibility resulting from the use of, or reliance upon, this information. Stanadyne Corporation assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

Key/Legend

N = No; Y = Yes; ppm - parts per million; mg/m³ = milligrams per cubic meter of air; ACGIH = American Conference of Governmental Industrial Hygienists; TLV = Threshold Limit Value; NTP = National Toxicology Program; IARC = International Agency for Research on Cancer; TSCA = Toxic Substance Control Act; DSL = Dangerous Substances List; EINECS = European Inventory of New and Existing Chemical Substances

Contact: For further information call 33-1-34822424

This is the end of SDS # 2601