

# SPX TO-4 Fluid 10, 30, 50

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 2.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : SPX TO-4 Fluid 10, 30, 50  
Synonyms : SPX TO-4 FLUID 10 / SPX TO-4 FLUID 30 / SPX TO-4 FLUID 50

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Lubricants

#### 1.3. Supplier

##### Manufacturer

General Petroleum Corporation, DBA Maxum Petroleum

19501 South Santa Fe Avenue

Rancho Dominguez, CA 90221

United States of America

T: (310) 356-2757

email: customer.service@maxumpetroleum.com

website: <http://www.generalpetroleum.com>

#### 1.4. Emergency telephone number

Emergency number : (800) 424-9300 CHEMTREC (24 HOURS)  
Transportation: (310) 356-2757

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Eye Dam. 1	H318	Causes serious eye damage
Repr. 1B	H360	May damage fertility or the unborn child
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways

Full text of hazard classes and H-statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H304 - May be fatal if swallowed and enters airways  
H318 - Causes serious eye damage  
H360 - May damage fertility or the unborn child

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves, eye protection, face protection.  
P301+P310 - If swallowed: Immediately call a poison center or doctor  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing  
P308+P313 - If exposed or concerned: Get medical advice/attention.

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P331 - Do NOT induce vomiting.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%)	(CAS-No.) 64742-54-7	41.7 - 55.44	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%)	(CAS-No.) 64742-55-8	40 - 50	Asp. Tox. 1, H304
Zinc alkyl dithiophosphate	(CAS-No.) 68649-42-3	0.95 - 3.04	Eye Dam. 1, H318 Aquatic Chronic 2, H411
Branched alkyl phenol	(CAS-No.) 74499-35-7	0.075 - 0.24	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
phenol,(tetrapropenyl) derivs.,calcium salts	(CAS-No.) 132752-19-3	0.075 - 0.24	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical attention.

First-aid measures after skin contact : Wash skin with mild soap and water.

First-aid measures after eye contact : 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.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. To prevent aspiration, keep head below knees. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into lungs. Immediately call a poison center or doctor/physician.

### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms : May damage fertility. May damage the unborn child. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Causes serious eye damage.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Risk of lung edema.

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### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Specific hazards arising from the chemical

Reactivity : Reacts with : Strong acids. Oxidizer.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Stop leak, if possible without risk. Eliminate ignition sources. Ventilate spillage area. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Stop leak, if possible without risk. Eliminate every possible source of ignition. Ventilate area. Avoid contact with skin and eyes.

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Product can accumulate electrostatic charges that may cause fire by electrical discharges. Never use pressure to empty container. Over pressure may rupture containers, cause serious injury, cause or accelerate fire.

Precautions for safe handling : Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Take precautionary measures against static discharge. Store in a well-ventilated place. Keep container tightly closed.

Incompatible materials : Strong oxidizers. Strong acids.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) (64742-55-8)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>

Branched alkyl phenol (74499-35-7)		
Not applicable		

phenol,(tetrapropenyl) derivs.,calcium salts (132752-19-3)		
Not applicable		

Zinc alkyl dithiophosphate (68649-42-3)		
Not applicable		

Monitoring methods		
Monitoring methods (oil)	NIOSH Manual of Analytical Methods,Mixed Cellulose Ester Filter (MCEF) 0.8 microns	

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Avoid splashing. Avoid creating mist or spray. Either local exhaust or general room ventilation is usually required.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

##### Hand protection:

Wear suitable gloves resistant to chemical penetration. VITON gloves. nitrile rubber gloves

##### Eye protection:

Use splash goggles when eye contact due to splashing is possible

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use an approved respirator equipped with oil/mist cartridges.

### SECTION 9: Physical and chemical properties

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

Physical state : Liquid

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Appearance	: Amber liquid.
Color	: amber
Odor	: petroleum
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > 315 °C
Flash point	: 215 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: < 0.01 mm Hg @ 37.8 °C (100 °F)
Relative vapor density at 20 °C	: > 1
Relative density	: 0.89 @ 15.6 °C (60.1°F)
Solubility	: Soluble in : Organic solvents. insoluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with : Strong acids. Oxidizer.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Do not store with incompatible materials.

### 10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

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Acute toxicity (inhalation) : Not classified

<b>Distillates (petroleum), hydrotreated heavy paraffinic (DMSO &lt; 3%) (64742-54-7)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.53 mg/l/4h

<b>Distillates (petroleum), hydrotreated light paraffinic (DMSO &lt;3%) (64742-55-8)</b>	
LD50 oral rat	> 5000 mg/kg body weight
LD50 dermal rabbit	> 2000 mg/kg body weight
LC50 inhalation rat (mg/l)	> 10.5 mg/l/4h

<b>Zinc alkyl dithiophosphate (68649-42-3)</b>	
LD50 oral rat	3100 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
ATE US (oral)	3100 mg/kg body weight

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Causes serious eye damage.  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : May damage fertility or the unborn child.  
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.  
Viscosity, kinematic : No data available

Potential Adverse human health effects and symptoms : May damage fertility. May damage the unborn child. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Causes serious eye damage.  
Symptoms/effects after eye contact : Serious damage to eyes.  
Symptoms/effects after ingestion : Risk of lung edema.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

<b>Distillates (petroleum), hydrotreated heavy paraffinic (DMSO &lt; 3%) (64742-54-7)</b>	
EC50 Daphnia 1	> 10000 mg/l

<b>Distillates (petroleum), hydrotreated light paraffinic (DMSO &lt;3%) (64742-55-8)</b>	
LC50 fish 1	101 mg/l > 100 mg/l LL50. 101 is put in for calculations, per request of IPAC

<b>Branched alkyl phenol (74499-35-7)</b>	
NOEC (chronic)	0.002 mg/l

<b>Zinc alkyl dithiophosphate (68649-42-3)</b>	
LC50 fish 1	4.4 mg/l 96 h oncorhynchus mykiss

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### Zinc alkyl dithiophosphate (68649-42-3)

EC50 Daphnia 1	1.2 mg/l 48 h
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#### 12.2. Persistence and degradability

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Persistence and degradability	This product is not expected to be biodegradable.
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##### Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) (64742-55-8)

Persistence and degradability	Not readily biodegradable.
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##### Branched alkyl phenol (74499-35-7)

Persistence and degradability	Product persists.
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#### 12.3. Bioaccumulative potential

##### Branched alkyl phenol (74499-35-7)

Log Pow	7.17
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#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste disposal recommendations : If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.

## SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not applicable

#### Transportation of Dangerous Goods

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

## SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
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### Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) (64742-55-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Branched alkyl phenol (74499-35-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### phenol,(tetrapropenyl) derivs.,calcium salts (132752-19-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Zinc alkyl dithiophosphate (68649-42-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 15.2. International regulations

### CANADA

### Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)

Listed on the Canadian DSL (Domestic Substances List)

### Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) (64742-55-8)

Listed on the Canadian DSL (Domestic Substances List)

### Branched alkyl phenol (74499-35-7)

Listed on the Canadian NDSL (Non-Domestic Substances List)

### phenol,(tetrapropenyl) derivs.,calcium salts (132752-19-3)

Listed on the Canadian NDSL (Non-Domestic Substances List)

### Zinc alkyl dithiophosphate (68649-42-3)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

### Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) (64742-55-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Zinc alkyl dithiophosphate (68649-42-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### National regulations

### Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) (64742-55-8)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on Taiwan National Chemical Inventory  
Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

### Zinc alkyl dithiophosphate (68649-42-3)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on Taiwan National Chemical Inventory  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Not listed on the Japanese ENCS (Existing & New Chemical Substances) inventory



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### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

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Revision date : 07/25/2018  
Data sources : European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>.  
European Chemicals Agency (ECHA) Registered Substances list. Accessed at <http://echa.europa.eu/>.  
Component Supplier SDSs.  
Manufacturer Information.

Full text of H-phrases:

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Repr. 1B	Reproductive toxicity Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

Abbreviations and acronyms:

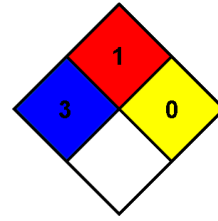
ACGIH (American Conference of Government Industrial Hygienists)
ATE: Acute Toxicity Estimate
CAS (Chemical Abstracts Service) number
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
IARC: International Agency for Research on Cancer
LD50: Lethal Dose for 50% of the test population
STEL: Short Term Exposure Limits
TWA: Time Weighted Average

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NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.



### SDS US (GHS HazCom 2012)

SDS prepared by:  
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T 614-923-7472  
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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*