# SAFETY DATA SHEET



## TROYSOL AFL

# **Section 1. Identification**

**GHS** product identifier

: TROYSOL AFL

**Product code** 

: 2311

Other means of

identification

: Not available.

**Product type** 

: Liquid.

**Material uses** 

: Bubble release agent/anti-floating agent

Supplier's details

: Troy Corporation. 8 Vreeland Road PO Box 955

Florham Park, NJ 07932-0955

U.S.A.

Phone: +1-973-443-4200 Fax: +1-973-443-0258

**Emergency telephone** number (with hours of operation)

: CHEMTREC - Tel: +1-800-424-9300 (24/7)

# Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

**GHS label elements** 

**Hazard pictograms** 







Signal word

Warning

**Hazard statements** 

Flammable liquid and vapor. Causes skin irritation.

Causes serious eve irritation.

Harmful if inhaled.

Suspected of causing cancer.

# **Precautionary statements**

**Prevention** 

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash thoroughly after handling.

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# Section 2. Hazards identification

Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or 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 or attention.

Storage

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

**Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Hazards not otherwise

classified

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

#### **CAS** number/other identifiers

**CAS number** : Not applicable.

Ingredient name	%	CAS number	
Stoddard solvent	≥25 - ≤50	8052-41-3	
Naphtha (petroleum), hydrotreated heavy	≥10 - <20	64742-48-9	
Solvent naphtha (petroleum), light arom.	≥10 - ≤25	64742-95-6	
1,2,4-trimethylbenzene	≥5 - ≤10	95-63-6	
Naphthenic acids, zinc salts	≤5	12001-85-3	
mesitylene	≤3	108-67-8	
Solvent naphtha (petroleum), light aliph.	≤3	64742-89-8	
zinc bis(2-ethylhexanoate)	≤2.3	136-53-8	
cumene	≤0.3	98-82-8	

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

## **Description of necessary first aid measures**

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** 

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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# Section 4. First aid measures

## Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

# Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation: Harmful if inhaled.Skin contact: Causes skin irritation.

**Ingestion**: No known significant effects or critical hazards.

## Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

**Skin contact** : Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

# Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to

give mouth-to-mouth resuscitation.

# See toxicological information (Section 11)

# Section 5. Fire-fighting measures

# **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides

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# Section 5. Fire-fighting measures

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

## Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### **Precautions for safe handling**

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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# Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

## **Control parameters**

**Occupational exposure limits** 

Ingredient name	Exposure limits
Stoddard solvent	ACGIH TLV (United States, 3/2015).  TWA: 100 ppm 8 hours.  TWA: 525 mg/m³ 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 100 ppm 8 hours.  TWA: 525 mg/m³ 8 hours.  NIOSH REL (United States, 10/2013).  TWA: 350 mg/m³ 10 hours.  CEIL: 1800 mg/m³ 15 minutes.  OSHA PEL (United States, 2/2013).
4.2.4 trimodhydhournana	TWA: 500 ppm 8 hours. TWA: 2900 mg/m³ 8 hours.
1,2,4-trimethylbenzene	ACGIH TLV (United States, 3/2018).  TWA: 25 ppm 8 hours.  TWA: 123 mg/m³ 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 25 ppm 8 hours.  TWA: 125 mg/m³ 8 hours.  NIOSH REL (United States, 10/2016).  TWA: 25 ppm 10 hours.  TWA: 125 mg/m³ 10 hours.
mesitylene	ACGIH TLV (United States, 3/2018).  TWA: 25 ppm 8 hours.  TWA: 123 mg/m³ 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 25 ppm 8 hours.  TWA: 125 mg/m³ 8 hours.  NIOSH REL (United States, 10/2016).  TWA: 25 ppm 10 hours.  TWA: 125 mg/m³ 10 hours.
cumene	OSHA PEL 1989 (United States, 3/1989).  Absorbed through skin.  TWA: 50 ppm 8 hours.  TWA: 245 mg/m³ 8 hours.  NIOSH REL (United States, 10/2016).  Absorbed through skin.  TWA: 50 ppm 10 hours.  TWA: 245 mg/m³ 10 hours.  ACGIH TLV (United States, 3/2018).  TWA: 50 ppm 8 hours.  OSHA PEL (United States, 5/2018).  Absorbed through skin.  TWA: 50 ppm 8 hours.

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# Section 8. Exposure controls/personal protection

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection** 

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

### **Appearance**

**Physical state** : Liquid.

Color Amber. Clear.

Odor Solvent

Not available. **Odor threshold** : Not available. Melting point/freezing point : Not available. Initial boiling point and : 142°C (287.6°F)

boiling range Flash point

Closed cup: 41°C (105.8°F) [Setaflash.]

: <1 (butyl acetate = 1) **Evaporation rate** 

: Not available. Flammability (solid, gas) Upper/lower flammability or

explosive limits

: Not available.

Vapor pressure : Not available.

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# Section 9. Physical and chemical properties

Vapor density : >1 [Air = 1] **Relative density** : 0.85 to 0.88

Solubility Insoluble in the following materials: cold water and hot water.

**Dispersibility properties** Partition coefficient: n-

octanol/water

: Not available. Not available.

**Auto-ignition temperature** 

: Not available. : Not available.

**Decomposition temperature Viscosity** 

Dynamic (room temperature): 10 mPa·s (10 cP)

Kinematic (room temperature): 0.11 to 0.12 cm<sup>2</sup>/s (11 to 12 cSt) [Calculated value for the

mixture]

Volatility : 70% (w/w)

# Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** 

: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow

vapor to accumulate in low or confined areas.

Incompatible materials

Reactive or incompatible with the following materials:

oxidizing materials

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

# **Section 11. Toxicological information**

## Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	<b>Exposure</b>
Stoddard solvent	LC50 Inhalation Dusts and mists	Rat	>5.5 g/m³	4 hours
	LD50 Dermal	Rabbit	>3 gm/kg	-
	LD50 Oral	Rat	>5 gm/kg	-
Naphtha (petroleum),	LC50 Inhalation Vapor	Rat	4951 mg/m <sup>3</sup>	4 hours
hydrotreated heavy			highest	
			concentration	
			tested	
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>6 g/kg	-
	LD50 Oral	Rat	>15000 mg/kg	-
Solvent naphtha (petroleum), light arom.	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
•	LD50 Oral	Rat	5 g/kg	-
Naphthenic acids, zinc salts	LD50 Oral	Rat	4920 mg/kg	-
mesitylene	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
•	LD50 Oral	Rat	5000 mg/kg	-
zinc bis(2-ethylhexanoate)	LD50 Dermal	Rabbit	>5 g/kg	-
,	LD50 Oral	Rat	3.55 g/kg	-
cumene	LC50 Inhalation Dusts and mists	Rat	24.7 g/m³	4 hours
	LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours

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# Section 11. Toxicological information

LD50 Dermal	Rabbit	12300 mg/kg	-
LD50 Oral	Rat	1400 mg/kg	-

# **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Stoddard solvent	Eyes - Mild irritant	Human	-	100 parts per	-
				million	
	Eyes - Moderate irritant	Rabbit	-	24 hours 500	-
				milligrams	
Solvent naphtha (petroleum),	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
ight arom.				microliters	
Naphthenic acids, zinc salts	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	0.5 Mililiters	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
mesitylene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
cumene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Eyes - Mild irritant	Rabbit	-	86 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 10	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 100	-
				milligrams	

# **Sensitization**

Not available.

# **Mutagenicity**

Not available.

# Carcinogenicity

Not available.

# Classification

Product/ingredient name	OSHA	IARC	NTP
cumene	-	2B	Reasonably anticipated to be a human carcinogen.

# **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Naphtha (petroleum), hydrotreated heavy	Category 3	-	Narcotic effects
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
mesitylene	Category 3	-	Respiratory tract irritation
zinc bis(2-ethylhexanoate)	Category 3	-	Respiratory tract irritation

# Specific target organ toxicity (repeated exposure)

Not available.

# **Aspiration hazard**

# **Section 11. Toxicological information**

Name	Result
Stoddard solvent Naphtha (petroleum), hydrotreated heavy Solvent naphtha (petroleum), light aliph.	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation: Harmful if inhaled.Skin contact: Causes skin irritation.

**Ingestion**: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

## **Numerical measures of toxicity**

# **Acute toxicity estimates**

Route	ATE value
	256226.17 mg/kg 4.97 mg/l

# Section 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
Naphtha (petroleum), hydrotreated heavy	Acute LC50 >100 mg/l	Algae	72 hours
	Acute LC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
1,2,4-trimethylbenzene	Acute LC50 4910 μg/l Marine water	Crustaceans - Elasmopus pectenicrus - Adult	48 hours
	Acute LC50 7720 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Naphthenic acids, zinc salts	Acute LC50 92 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
mesitylene	Acute EC50 12.5 mg/l	Fish	96 hours
	Acute LC50 13000 µg/l Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Chronic NOEC 400 µg/l Fresh water	Daphnia - Daphnia magna	21 days
zinc bis(2-ethylhexanoate)	Acute EC50 1.6 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.44 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
cumene	Acute EC50 2600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 7.4 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 10.6 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2700 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

#### Persistence and degradability

Not available.

## **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Stoddard solvent	3.16 to 7.06	-	high
Naphtha (petroleum),	-	10 to 2500	high
hydrotreated heavy			
Solvent naphtha (petroleum),	-	10 to 2500	high
light arom.			
1,2,4-trimethylbenzene	3.63	243	low
mesitylene	3.42	161	low
zinc bis(2-ethylhexanoate)	-	60960	high
cumene	3.55	35.48	low

## **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects :

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

#### **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been

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# Section 13. Disposal considerations

cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA/ICAO
UN number	UN1993	UN1993	UN1993	UN1993	UN1993	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrodesulfurized heavy, Solvent naphtha (petroleum), light arom.)	FLAMMABLE LIQUID, N.O.S. (Stoddard solvent, Solvent naphtha (petroleum), light arom.)	FLAMMABLE LIQUID, N.O.S. (Stoddard solvent, Solvent naphtha (petroleum), light arom.)	FLAMMABLE LIQUID, N.O.S. (Stoddard solvent, Solvent naphtha (petroleum), light arom.)	FLAMMABLE LIQUID, N.O.S. (Stoddard solvent, Solvent naphtha (petroleum), light arom.)	FLAMMABLE LIQUID, N.O.S. (Stoddard solvent, Solvent naphtha (petroleum), light arom.)
Transport hazard class(es)	3	3	3	3	3	3
Packing group	III	Ш	Ш	Ш	Ш	Ш
Environmental hazards	Yes.	Yes.	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	This product may be reclassified as "Combustible Liquid," unless transported by vessel or aircraft. Nonbulk packages (less than or equal to 119 gal) of combustible liquids, that are marine pollutants, are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by vessel.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail.	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Tunnel code (D/E)	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-E, S-E	The environmentally hazardous substance mark may appear if required by other transportation regulations.

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Section 14. Transport information					
This product is					
not regulated					
as a marine					
pollutant when					
transported on					
inland					
waterways in					
sizes of ≤5 L or					
≤5 kg or by					
road, rail, or					
inland air in					
non-bulk sizes,					
provided the					
packagings					
meet the					
general					
provisions of					
§§ 173.24 and					
173.24a.					
<u>Reportable</u>					
quantity					
28935.2 lbs /					
13136.6 kg					
[4011.9 gal /					
15186.8 L].					
Package sizes					
shipped in					
quantities less					
than the					
product					
reportable					
quantity are not					
subject to the					
RQ (reportable					
quantity)					
transportation					
requirements.					

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments

: Not available.

# Section 15. Regulatory information

U.S. Federal regulations TSCA 4(a) final test rules: nonane

TSCA 8(a) PAIR: nonane

TSCA 8(b) inventory : All components are listed or exempted.

Clean Water Act (CWA) 307: Naphthenic acids, zinc salts; zinc bis(2-ethylhexanoate);

ethylbenzene

Clean Water Act (CWA) 311: xylene; ethylbenzene

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Listed

Clean Air Act Section 602

**Class I Substances** 

: Not listed

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# Section 15. Regulatory information

Clean Air Act Section 602

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

(i recursor enemicus)

**DEA List II Chemicals** (Essential Chemicals)

: Not listed

EPA

Not applicable.

EPA Registration Number: Not available.

EPA Signal Word: Not available.

Symbol: Not applicable.

**Precautionary statements**:

Not applicable.

**Explanation for differences between EPA and OSHA** 

classification

**OSHA Signal word** 

Warning

arning This is based on the following classification categories:

FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

Environmental hazards : Not within OSHA jurisdiction therefore not required on SDS.

EPA Signal Word: Not available. This is based on the following EPA toxicity categories:

Not available.

Environmental hazards : Not applicable

**SARA 302/304** 

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : FLAMMABLE LIQUIDS - Category 3

ACUTE TOXICITY (inhalation) - Category 4

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

## **Composition/information on ingredients**

Name	%	Classification
Stoddard solvent	≥25 - ≤50	ASPIRATION HAZARD - Category 1
Naphtha (petroleum),	≥10 - <20	FLAMMABLE LIQUIDS - Category 3
hydrotreated heavy		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum),	≥10 - ≤25	FLAMMABLE LIQUIDS - Category 2
light arom.		EYE IRRITATION - Category 2B
1,2,4-trimethylbenzene	≥5 - ≤10	FLAMMABLE LIQUIDS - Category 3
-		ACUTE TOXICITY (inhalation) - Category 3

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# **Section 15. Regulatory information**

	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	(Respiratory tract irritation) - Category 3
≤5	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
≤3	FLAMMABLE LIQUIDS - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	(Respiratory tract irritation) - Category 3
≤3	FLAMMABLE LIQUIDS - Category 2
	ASPIRATION HAZARD - Category 1
≤2.3	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SPECIFIC TARGET ORĞAN TOXICITY (SINGLE EXPOSURE)
	(Respiratory tract irritation) - Category 3
≤0.3	FLAMMABLE LIQUIDS - Category 3
	ACUTE TOXICITY (oral) - Category 4
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2B
	CARCINOGENICITY - Category 2
	≤3 ≤3 ≤2.3

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Naphthenic acids, zinc salts	12001-85-3	≥5 - ≤10 ≤5 ≤2.3
Supplier notification	Naphthenic acids, zinc salts		≥5 - ≤10 ≤5 ≤2.3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

## State regulations

**Massachusetts** : The following components are listed: STODDARD SOLVENT; PSEUDOCUMENE;

MESITYLENE; 1,3,5 TRIMETHYL BENZENE

**New York** : The following components are listed: Cumene; Benzene, 1-methylethyl-

The following components are listed: STODDARD SOLVENT; Hydrocarbons, C9-C11, n-**New Jersey** 

alkanes, isoalkanes, cyclics, <2% aromatics; PSEUDOCUMENE; 1,2,4-TRIMETHYL BENZENE; TRIMETHYL BENZENE (mixed isomers); BENZENE, TRIMETHYL-; CUMENE; BENZENE, (1-METHYLETHYL)-; ZINC compounds; ZINC compounds

**Pennsylvania** The following components are listed: STODDARD SOLVENT; Hydrocarbons, C9-C11, nalkanes, isoalkanes, cyclics, <2% aromatics; Solvent naphtha (petroleum), light arom.;

Naphthenic acids, zinc salts; ZINC COMPOUNDS; PSEUDOCUMENE

#### California Prop. 65

MARNING: This product can expose you to Cumene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

	No significant risk level	Maximum acceptable dosage level
Cumene	-	-

# **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

# Section 15. Regulatory information

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

#### **International lists**

**National inventory** 

Australia : All components are listed or exempted.
Canada : All components are listed or exempted.
China : All components are listed or exempted.
Europe : All components are listed or exempted.

Japan : Japan inventory (ENCS): At least one component is not listed.

Japan inventory (ISHL): Not determined.

Malaysia : Not determined

New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.Republic of Korea: All components are listed or exempted.Taiwan: All components are listed or exempted.

# Section 16. Other information

# **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

#### **National Fire Protection Association (U.S.A.)**



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

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# Section 16. Other information

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution)

**UN = United Nations** 

References : Not available.

Indicates information that has changed from previously issued version.

#### **Notice to reader**

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