



SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 084435

FINASOL S 140

Date of the previous version: 2015-06-08

Revision Date: 2015-10-13

Version 1.01

1. IDENTIFICATION

Product identifier

Product name FINASOL S 140

Other means of identification

Product Code(s) 084435

Number CKN
Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Metalworking fluid. Degreaser.

Uses advised against Do not use for any purpose other than the one for which it is intended

Details of the supplier of the safety data sheet

Supplier Address TOTAL Specialties USA Inc
1201 Louisiana Street, Suite 1800
Houston, TX 77002
Phone: +1 800 323 3198***

Contact Point Technical/ HSEQ

E-mail Address USRMLIN-info@total.com

Emergency telephone number

Company Phone Number

+1 (908) 862-9300

Emergency telephone

CHEMTREC: +1 800 424 9300 (24h)

2. HAZARDS IDENTIFICATION

Classification

Flammable liquids - Category 3
Skin corrosion/irritation - Category 2
Specific target organ systemic toxicity (single exposure) - Category 3
Aspiration toxicity - Category 1

Label elements

Version GNAM



SDS # : 084435

FINASOL S 140

Date of the previous version: 2015-06-08

Revision Date: 2015-10-13

Version 1.01

**DANGER****Hazard Statements**

Flammable liquid and vapor
 Causes skin irritation
 May cause drowsiness or dizziness
 May be fatal if swallowed and enters airways

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection
 Avoid breathing dust/fume/gas/mist/vapours/ spray
 Use only outdoors or in a well-ventilated area
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Keep cool
 Use explosion-proof electrical/ ventilating / lighting equipment

Precautionary Statements - Response

Specific treatment (see Section 4 on this label)

Skin

If skin irritation occurs: Get medical advice/attention
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician if you feel unwell

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 Do NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
 Store locked up

Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant

Version GNAM



SDS # : 084435

FINASOL S 140

Date of the previous version: 2015-06-08

Revision Date: 2015-10-13

Version 1.01

Unknown Acute Toxicity

No information available

Hazards not otherwise classified (HNOC)

None known

Other information**Physical-Chemical Properties**

Contaminated surfaces will be extremely slippery.

Environmental properties

Should not be released into the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Solvent naphta (petroleum), medium aliph.	64742-88-7	45-50
Distillates (petroleum), hydrotreated light	64742-47-8	45-50

** The exact percentage (concentration) of composition has been withheld as a trade secret****

4. FIRST AID MEASURES**First aid measures for different exposure routes****General advice**

If symptoms persist, call a physician. Show this material safety data sheet to the doctor in attendance. Do not breathe dust/fume/gas/mist/vapors/spray. IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.

Skin contact

If symptoms persist, call a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use.

Inhalation

Consult a physician. If not breathing, give artificial respiration. Move to fresh air in case of accidental inhalation of vapors. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract.

Ingestion

If symptoms persist, call a physician. Clean mouth with water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If swallowed, call a poison control center or doctor immediately. Risk of product entering the lungs on vomiting after ingestion. Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung edema or pneumonia.

Protection of First-aiders

Use personal protective equipment.

Version GNAM



SDS # : 084435

FINASOL S 140

Date of the previous version: 2015-06-08

Revision Date: 2015-10-13

Version 1.01

Most important symptoms/effects, acute and delayed

Skin contact	Causes skin irritation. May be harmful in contact with skin.
Eye contact	Not classified.
Inhalation	May cause drowsiness and dizziness.
Ingestion	May be fatal if swallowed and enters airways.
Symptoms	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Redness. Itching. Difficulty breathing. Coughing and/ or wheezing.

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

Notes to physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u>	Cool containers / tanks with water spray. Dry chemical. Carbon dioxide (CO ₂). Water spray. Alcohol-resistant foam. Foam. ABC powder.
<u>Uniform Fire Code</u>	Combustible Liquid: III-A Irritant: Liquid Blasting Agents
<u>Unsuitable Extinguishing Media</u>	Do not use a solid water stream as it may scatter and spread fire.
<u>Special Hazard</u>	Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Flash back possible over considerable distance. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

Explosion Data

<u>Sensitivity to Mechanical Impact</u>	None.
<u>Sensitivity to Static Discharge</u>	May be ignited by friction, heat, sparks or flames.

<u>Protective Equipment and Precautions for Firefighters</u>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.
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6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

General Information	Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Heat, flames and sparks. Ensure adequate ventilation.
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Version GNAM



SDS # : 084435

FINASOL S 140

Date of the previous version: 2015-06-08

Revision Date: 2015-10-13

Version 1.01

Other information

See Section 12 for additional information.

Environmental precautions

General Information

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses. Prevention of fire and explosion. A vapor suppressing foam may be used to reduce vapors. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for cleaning up

Dam up. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Ground and bond containers when transferring material. Keep in suitable, closed containers for disposal. Use mechanical means such as pumps, skimmers and absorbent materials. Use clean non-sparking tools to collect absorbed material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Prevent the formation of vapors, mists and aerosols. Do not eat, drink or smoke when using this product. There is a hazard associated with rags, paper or any other material used to remove spills which become soaked with product. Avoid accumulation of these: they are to be disposed off safely after use. Avoid static electricity build up with connection to earth. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. When using, do not eat, drink or smoke. For personal protection see section 8.

Prevention of fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Design installations (machinery and equipment) to prevent burning product from spreading (tanks, retention systems, interceptors (traps) in drainage systems). OPERATE ONLY ON COLD AND DEGASSED TANKS IN VENTILATED PREMISES (TO AVOID RISK OF EXPLOSION). Do not use compressed air for filling, discharging or handling. Empty containers may contain flammable or explosive vapors.

Hygiene measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Avoid breathing vapors, mist or gas. Avoid prolonged and repeated contact with the skin, especially with used or waste product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

Version GNAM



SDS # : 084435

FINASOL S 140

Date of the previous version: 2015-06-08

Revision Date: 2015-10-13

Version 1.01

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Keep away from direct sunlight.

Materials to Avoid Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits Mineral oil mist:
USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined).

Exposure controls

Engineering Measures Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment

General Information Protective engineering solutions should be implemented and in use before personal protective equipment is considered.

Eye/Face Protection If splashes are likely to occur, wear: Safety glasses with side-shields.

Skin and body protection Wear suitable protective clothing. Protective shoes or boots.

Hand Protection Protective gloves. Impervious gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Version GNAM



SDS # : 084435

FINASOL S 140

Date of the previous version: 2015-06-08

Revision Date: 2015-10-13

Version 1.01

Hygiene measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Avoid breathing vapors, mist or gas. Avoid prolonged and repeated contact with the skin, especially with used or waste product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical and chemical properties**

Appearance		limpid	
Color		clear	
Physical State @20°C		liquid	
Odor		Petroleum distillates	
Odor Threshold		No information available	
Property	Values	Remarks	Method
pH		Not applicable	
Melting point/range		No information available	
Boiling point/boiling range	179 °C 354 °F		
Flash point	60 °C 140 °F		Tag closed cup Tag closed cup.
Evaporation rate		No information available	
Flammability Limits in Air			
upper	6 %	No information available	
Lower	1 %	No information available	
Vapor Pressure		Not applicable	
Vapor density	5.5	(Air = 1)	
Relative density	0.804	@ 15 °C	ASTM D 1298
Density	804 kg/m ³	@ 15 °C	ASTM D 1298
Water solubility		Insoluble	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature	> 282 °C > 540 °F		
Decomposition temperature		No information available	
Viscosity, kinematic	1.3 mm ² /s	@ 40 °C	ASTM D 445
Explosive properties	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of hazardous reactions	Not applicable		
Other information			
Specific Gravity	0.804	@ 15 °C	ASTM D 1298
Freezing Point		No information available	
Pour point		No information available	

Version GNAM



SDS # : 084435

FINASOL S 140

Date of the previous version: 2015-06-08

Revision Date: 2015-10-13

Version 1.01

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to Avoid	Heating in air. Heat, flames and sparks. Take precautionary measures against static discharges. Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Strong oxidizing agents.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

Information on likely routes of exposure

Principle Routes of Exposure Inhalation, Ingestion, Eye contact, Skin contact.

Numerical measures of toxicity

ATEmix (oral)	5003 mg/kg
ATEmix (dermal)	2001 mg/kg
Inhalation	
ATEmix (inhalation-vapor)	40.2 mg/l

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Solvent naphta (petroleum), medium aliph. 64742-88-7	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.28 mg/L (Rat) 4 h
Distillates (petroleum), hydrotreated light 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Redness. Itching. Difficulty breathing. Coughing and/ or wheezing.

Skin contact Causes skin irritation. May be harmful in contact with skin.

Version GNAM



SDS # : 084435

FINASOL S 140

Date of the previous version: 2015-06-08

Revision Date: 2015-10-13

Version 1.01

Eye contact	Not classified.
Inhalation	May cause drowsiness and dizziness.
Ingestion	May be fatal if swallowed and enters airways.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Irritating to skin.
Sensitization	Not classified as a sensitizer.
Carcinogenicity	This product is not classified carcinogenic.

Mutagenicity	This product is not classified as mutagenic.
Reproductive toxicity	This product does not present any known or suspected reproductive hazards.
STOT-single exposure	May cause disorder and damage to the. Respiratory system.
Aspiration Hazard	May be fatal if swallowed and enters airways. Risk of serious damage to the lungs (by aspiration).

12. ECOLOGICAL INFORMATION**Ecotoxicity****Acute aquatic toxicity - Product Information**

No experimental data available

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Solvent naphta (petroleum), medium aliph. 64742-88-7	EL50 (96h) = 1-3 mg/l Pseudokirchneriella subcapitata	LL50 (96h) 2-5 mg/l Oncorhynchus mykiss	EL50 (48h) 1.4 mg/L Daphnia magna	
Distillates (petroleum), hydrotreated light 64742-47-8		LC50 (96h) = 45 mg/L Pimephales promelas (flow-through) LC50 (96h) = 2.4 mg/L Oncorhynchus mykiss (static) LC50 (96h) = 2.2 mg/L Lepomis macrochirus (static)	LC50 (96h) = 4720 mg/L Den-dronereides heteropoda	

Chronic aquatic toxicity - Product Information

No experimental data available

Chronic aquatic toxicity - Component Information

No information available

Version GNAM



SDS # : 084435

FINASOL S 140

Date of the previous version: 2015-06-08

Revision Date: 2015-10-13

Version 1.01

Effects on terrestrial organisms No experimental data available .

Persistence and degradability

General Information No information available.

Bioaccumulative potential

Product Information No information available.

logPow No information available

Component Information No information available.

Mobility

Soil No information available

Other adverse effects

General Information No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment**

Waste Disposal Methods Should not be released into the environment. Dispose of in accordance with local regulations.

Contaminated packaging Empty containers may contain flammable or explosive vapors. Do not burn, or use a cutting torch on, the empty drum. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION**DOT**

UN/ID No	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.***
Hazard class	3
Packing Group	III
Special Provisions	B1, B52, IB3, T4, TP1, TP29

Version GNAM



SDS # : 084435

FINASOL S 140

Date of the previous version: 2015-06-08

Revision Date: 2015-10-13

Version 1.01

Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Solvent naphta (petroleum), medium aliph.), 3, III***
Emergency Response Guide Number	128

TDG

UN/ID No	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Hazard class	3
Packing Group	III
Special Provisions	16
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Solvent naphta (petroleum), medium aliph.), 3, III

MEX

UN/ID No	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Hazard class	3
Special Provisions	223, 274
Packing Group	III
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Solvent naphta (petroleum), medium aliph.), 3, III

ICAO/IATA

UN/ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s.
Hazard class	3
Packing Group	III
Special Provisions	A3
Description	UN1993, Flammable liquid, n.o.s. (Solvent naphta (petroleum), medium aliph.), 3, III

IMDG/IMO

UN/ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s.
Hazard class	3
Packing Group	III
EmS No.	F-E, S-E
Special Provisions	223, 274, 955
Description	UN1993, Flammable liquid, n.o.s. (Solvent naphta (petroleum), medium aliph.), 3, III
Excepted Quantity	E1
Limited quantity	5 L

ADR/RID

UN/ID No	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Hazard class	3
Packing Group	III
Classification Code	F1
Tunnel Restriction Code	(D/E)
Special Provisions	274, 601, 640E
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Solvent naphta (petroleum), medium aliph.), 3, III, (D/E)
Environmental hazard	Yes

Version GNAM



SDS # : 084435

FINASOL S 140

Date of the previous version: 2015-06-08

Revision Date: 2015-10-13

Version 1.01

ADN

Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Hazard class	3
Packing Group	III
Classification Code	F1
Special Provisions	274, 601, 640E
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Solvent naphta (petroleum), medium aliph.), 3, III
Hazard Labels	3
Limited quantity	5 L
Ventilation	VE01

15. REGULATORY INFORMATION**International Inventories**

The substance is listed or exempted from listing in the following inventories:
U.S.A. (TSCA)

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	no
Fire Hazard	Yes
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations**California Proposition 65**

This product contains chemicals known to the State of California to cause cancer or reproductive toxicity

Version GNAM



SDS # : 084435

FINASOL S 140

Date of the previous version: 2015-06-08

Revision Date: 2015-10-13

Version 1.01

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois
Solvent naphta (petroleum), medium aliph. 64742-88-7		X		

16. OTHER INFORMATION

NFPA	Health Hazard 1	Flammability 2	Instability 0	Physical and chemical hazards -
HMIS	Health Hazard 1	Flammability 2	Physical Hazard 0	Personal protection X

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

Revision Date: 2015-10-13
 Revision Note *** Indicates updated section
 Abbreviations, acronyms

Legend

Section 8
 ACGIH - American Conference of Governmental Industrial Hygienists
 OSHA - Occupational Safety and Health Administration
 NIOSH - National Institute for Occupational Safety and Health
 TLV - Threshold Limit Values
 PEL - Permissible Exposure Limits
 IDHL - Immediately Dangerous to Life or Health concentrations
 TWA - Time Weight Average
 STEL - Short Term Exposure Limits
 S* - Skin notation
 TSCA - Toxic Substance Control Act

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the safety data sheet

Version GNAM