

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS





Printing date 07.11.2013

Revision: 07.11.2013

1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** SUPCO 88
- **Article number:** supco88
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Oil additive.
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Highside Chemicals, Inc.
11114 Reichold Road
Gulfport, MS 39503 USA
Phone: (228) 896-9220
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
 -  GHS02 flame
Flam. Liq. 3 H226 Flammable liquid and vapour.
 -  GHS08 health hazard
Carc. 1B H350 May cause cancer.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
 -  GHS07
Acute Tox. 4 H332 Harmful if inhaled.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 -  Xn; Harmful
R65: Harmful: may cause lung damage if swallowed.
 - R10: Flammable.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**

Distillates (petroleum), hydrotreated heavy naphthenic
Kerosine (petroleum), hydrodesulfurized
dibenzyl disulphide

- **Hazard statements**

H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H350 May cause cancer.
H304 May be fatal if swallowed and enters airways.

- **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P281 Use personal protective equipment as required.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.
P331 Do NOT induce vomiting.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

Restricted to professional users.

- **Hazard description:**

- **WHMIS-symbols:**

B3 - Combustible liquid



- **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 2
Reactivity = 0

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· HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = *0
FIRE	2	Fire = 2
REACTIVITY	0	Reactivity = 0

* - Indicates a long term health hazard from repeated or prolonged exposures.

· HMIS Long Term Health Hazard Substances

None of the ingredients is listed.

· 2.3 Other hazards

· Results of PBT and vPvB assessment







- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 64742-81-0 EINECS: 265-184-9 Index number: 649-423-00-8	Kerosine (petroleum), hydrodesulfurized  Xn R65  Flam. Liq. 3, H226  Asp. Tox. 1, H304	25-50%
CAS: 150-60-7 EINECS: 205-764-0	dibenzyl disulphide  Xn R20;  Xi R37  Acute Tox. 4, H332; STOT SE 3, H335	<10%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
A person vomiting while laying on their back should be turned onto their side.
- **4.2 Most important symptoms and effects, both acute and delayed**
Cramp
Acne
Nausea
Unconsciousness
Dizziness
Breathing difficulty
Coughing
- **Hazards**
Danger of pulmonary oedema.
Danger of impaired breathing.
- **4.3 Indication of any immediate medical attention and special treatment needed**
If swallowed or in case of vomiting, danger of entering the lungs.
Medical supervision for at least 48 hours.
If necessary oxygen respiration treatment.
Later observation for pneumonia and pulmonary oedema.

5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Water haze or fog
Foam
Fire-extinguishing powder
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:**
Water with full jet
Water spray
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Eliminate all ignition sources if safe to do so.
Use large quantities of foam as it is partially destroyed by the product.
Cool endangered receptacles with water fog or haze.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Use respiratory protective device against the effects of fumes/dust/aerosol.

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Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Protect from heat.

Particular danger of slipping on leaked/spilled product.

· **6.2 Environmental precautions:**

Prevent from spreading (e.g. by damming-in or oil barriers).

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Remove from the water surface (e.g. skim or suck off).

Dispose contaminated material as waste according to item 13.

Do not flush with water or aqueous cleansing agents

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· **7.1 Precautions for safe handling**

Prevent formation of aerosols.

Avoid the formation of oil haze.

Use only in well ventilated areas.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Protect from heat.

When heated the product forms flammable fumes.

Flammable gas-air mixtures may form in empty receptacles.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Provide ventilation for receptacles.

Avoid storage near extreme heat, ignition sources or open flame.

Use only receptacles specifically permitted for this substance/product.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidizing agents.

· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

· **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

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· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

64742-81-0 Kerosine (petroleum), hydrodesulfurized

REL (USA)	Long-term value: 100 mg/m ³ Kerosene only
TLV (USA)	Long-term value: 200 mg/m ³ as total hydrocarbon vapor; Skin; P
EV (Canada)	Long-term value: 200(G) mg/m ³ as total hydrocarbon vapour, Skin

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device when aerosol or mist is formed.

For spills, respiratory protection may be advisable.

NIOSH approved organic vapor respirator equipped with a dust/mist prefilter should be used.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

Nitrile rubber, NBR

Neoprene gloves

· Eye protection:



Safety glasses

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- **Body protection:** Oil resistant protective clothing
- **Limitation and supervision of exposure into the environment**
No further relevant information available.
- **Risk management measures**
See Section 7 for additional information.
No further relevant information available.

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Liquid
Colour:	Light brown
Odour:	Petroleum-like
Odour threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	304 °F / 151 °C

· Flash point: 130 °F / 54 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 410 °F / 210 °C

· Decomposition temperature: Not determined.

· Self-igniting: Product is not self-igniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower:	0,7 Vol %
Upper:	5,0 Vol %

· Vapour pressure at 20 °C: 0,1 mmHg

· Density at 20 °C: 0,851 g/cm³

· Relative density: Not determined.

· Vapour density at 20 °C: >1 (AIR = 1)

· Evaporation rate at 20 °C: <1 (Butyl acetate = 1)

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

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- **Viscosity:**
 - Dynamic at 40 °C:** 2,0 mPas
 - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Flammable.
Used empty containers may contain product gases which form explosive mixtures with air.
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
Toxic fumes may be released if heated above the decomposition point.
Can react violently with oxygen rich (oxidizing) material. Danger of Explosion.
- **10.4 Conditions to avoid**
Keep ignition sources away - Do not smoke.
Store away from oxidizing agents.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Hydrocarbons
Carbon monoxide and carbon dioxide

11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

64742-52-5 Distillates (petroleum), hydrotreated heavy naphthenic

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4h	5 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Slight irritant effect on skin and mucous membranes.
- **on the eye:** Slight irritant effect on eyes.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

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Carcinogenic.

- **Repeated dose toxicity:** May cause damage to organs through prolonged or repeated exposure .
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
Carc. 1B

12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** The material is harmful to the environment.
- **12.2 Persistence and degradability** The product is partially biodegradable. Significant residuals remain.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Due to mechanical actions of the product (e.g. agglutinations) damages may occur.
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Harmful to aquatic organisms
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
Avoid transfer into the environment.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Product is recyclable as a waste oil. Deliver unused and/or contaminated product to waste oil collectors.
After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **14.1 UN-Number**
- **DOT** N/A
Classified as combustible under US DOT regulations.
Labeling required for single packages ≥ 119 US gal /

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· · ADR, IMDG, IATA	450 L to include Combustible symbol and Proper Shipping Name. UN1268
· 14.2 UN proper shipping name · DOT · ADR · IMDG, IATA	N/A FLAMMABLE LIQUID, N.O.S. (Kerosine (petroleum), hydrodesulfurized) 1268 PETROLEUM PRODUCTS, N.O.S. PETROLEUM PRODUCTS, N.O.S.
· 14.3 Transport hazard class(es) · DOT · Class	N/A
· ADR 	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA 	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · DOT · ADR, IMDG, IATA	N/A III
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number:	Warning: Flammable liquids. 30 F-E, <u>S-E</u>
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Transport category	5L 3

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· Tunnel restriction code	D/E
· UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S. (Kerosine (petroleum), hydrodesulfurized), 3, III

15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65 (California):**

- **Chemicals known to cause cancer:**

Listed under a chemical family; not directly listed by CAS : 64742-94-5.

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

91-20-3 | naphthalene

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenic Categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

64742-81-0 | Kerosine (petroleum), hydrodesulfurized

A3

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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- **Canada**

- **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

- **Canadian Ingredient Disclosure list (limit 1%)**

150-60-7 | dibenzyl disulphide

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

R20 Harmful by inhalation.

R37 Irritating to respiratory system.

R65 Harmful: may cause lung damage if swallowed.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- **Sources**

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SUPCO 88 Oil Additive

PART NUMBER:

GENERAL USE: Oil additive

PRODUCT DESCRIPTION: Colorless to slightly tinted liquid, characteristic hydrocarbon odor.



MANUFACTURER'S NAME

Sealed Unit Parts Co., Inc.

DATE PREPARED: May 25, 2005

SUPERSEDES: August 18, 1998

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ADDRESS (NUMBER, STREET, P.O. BOX)

2230 Landmark Place

TELEPHONE NUMBER FOR INFORMATION

(732) 223-6644

(CITY, STATE AND ZIP CODE)

Allenwood, NJ 08720

COUNTRY

USA

EMERGENCY TELEPHONE NUMBER

(732) 223-6644

DISTRIBUTOR'S NAME

Same

ADDRESS (NUMBER, STREET, P.O. BOX)

TELEPHONE NUMBER FOR INFORMATION

(CITY, STATE AND ZIP CODE)

COUNTRY

EMERGENCY TELEPHONE NUMBER

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	% (by weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES Full Text Section 16
Kerosene (petroleum), hydrodesulfurized	30 - 60	64742-81-0	265-184-9	Xn	R-10, 65
Petroleum distillate, hydrotreated heavy paraffinic	15 - 40	64742-53-6	265-156-6	Xn	R-65, 66, 67
Petroleum distillate, hydrotreated heavy paraffinic	10 - 30	64742-52-5	265-155-0	Xn	R-65, 66, 67
Benzyl disulfide	0.5 - 1.0	150-60-7	205-764-0	Xi	R-43

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Colorless combustible liquid, potentially hazardous vapors. Can cause serious or fatal complications if swallowed. Can cause eye and skin irritation upon contact. Inhalation of vapors can cause anesthetic effect leading to death in poorly ventilated areas. Hazard Symbols for this product - Xn Risk Phrases - R 10, 65, 66, 67

POTENTIAL HEALTH EFFECTS

INHALATION: Inhalation of vapors can cause anesthetic effect leading to death in poorly ventilated areas. High concentrations of mist may be irritating to the respiratory tract.

SKIN: No significant irritation is expected to occur upon short-term exposure.; prolonged contact may cause moderate irritation.

EYES: Minimal irritation and discomfort may result from short-term contact with liquid, mist, and/or vapor.

INGESTION: Non-toxic; may cause gastric distress, vomiting and diarrhea. DO NOT induce vomiting. Aspiration of vomitus into the lungs must be avoided; minute amounts aspirated into the lungs can produce severe lung injury or death.

CARCINOGENICITY

NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

MATERIAL SAFETY DATA SHEET

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SECTION 4 - FIRST AID MEASURES

INHALATION: Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.

SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

EYES: Check for and remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

INGESTION: DO NOT induce vomiting; if vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs; seek immediate medical attention. Small amounts entering mouth should be rinsed out until taste is gone.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS: Product is flammable. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide and small amounts of sulfur.

EXTINGUISHING MEDIA

Carbon dioxide, water fog, dry chemical, chemical foam.

FIRE FIGHTING PROCEDURES

Firefighters must wear full facepiece self - contained breathing apparatus in positive pressure mode. Do not use solid stream of water since stream will scatter and spread fire. Fine water spray can be used to keep fire - exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers can explode due to buildup of pressure when exposed to extreme heat. Do not use direct stream of water on pool fires as product may reignite on water surface. Caution - Material is flammable!

HAZARDOUS COMBUSTION PRODUCTS

Smoke, fumes or vapors, oxides of carbon, small amounts of sulfur.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CAUTION - FLAMMABLE - Evacuate and ventilate area; remove all sources of sparks, ignition and open flames; confine and absorb into approved absorbent; place material into approved containers for disposal; do not wash to sewer or waterway.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. CAUTION - FLAMMABLE - keep away from all sources of ignition. "Empty" containers may contain residue which may form explosive vapors. Do not weld or cut near empty container that has not been professionally reconditioned. Use non-sparking tools when opening and closing containers. Maintain well ventilated work areas to minimize exposure when handling this material.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH			
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
Kerosene (petroleum), hydrodesulfurized	30				30			
Petroleum distillate, hydrotreated heavy paraffinic		10		5		10		5
Petroleum distillate, hydrotreated heavy paraffinic		10		5		10		5
Benzyl disulfide		not established				not established		

PERSONAL PROTECTION:

RESPIRATORY PROTECTION: None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

PROTECTIVE GLOVES: Neoprene, butyl or nitrile rubber gloves with cuffs.

EYE PROTECTION: Chemical safety goggles. Refer to 29 CFR 1910.133 or European Standard EN166.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyewash station nearby.

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

MATERIAL SAFETY DATA SHEET

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Colorless to slightly tinted liquid, characteristic hydrocarbon odor	VAPOR PRESSURE 0.1 mm Hg @ 20° C
pH Not applicable	SPECIFIC GRAVITY (WATER = 1) 0.851
BOILING POINT / BOILING RANGE 304° F (151.1° C)	SOLUBILITY IN WATER Negligible
FLASH POINT 130° F (54.4° C) TCC	VISCOSITY Approximately 2 CSt @ 40° C
FLAMMABLE LIMITS LEL: 0.7% UEL: 5.0%	VAPOR DENSITY (AIR = 1) > 1
AUTOIGNITION TEMPERATURE 410° F (210° C)	EVAPORATION RATE (n-Butyl Acetate = 1) < 1

SECTION 10 - STABILITY AND REACTIVITY
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STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Extreme temperatures, open flames, sparks.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids.	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.	
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: XXX	CONDITIONS TO AVOID: None

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Kerosene (petroleum), hydrodesulfurized	64742-81-0 265-184-9	5 ml / kg Oral - rat	5 ml / l / 4H Inhalation - rat
Petroleum distillate, hydrotreated heavy paraffinic	64742-53-6 265-156-6	> 2000 mg / kg Oral - rat	2200 mg m3 / 4H
Petroleum distillate, hydrotreated heavy paraffinic	64742-52-5 265-155-0	Not determined	Not determined
Benzyl disulfide	150-60-7 205-764-0	Not established	Not established

SECTION 12 - ECOLOGICAL INFORMATION
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No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This product may produce hazardous vapors in a closed disposal container creating a dangerous environment. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway. According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Petroleum distillates, n.o.s. (Aliphatic hydrocarbons)	IATA HAZARD CLASS / Pack Group: 3 / III
DOT HAZARD CLASS / Pack Group: 3 / III	IMDG HAZARD CLASS: 3 / III
REFERENCE: 49 CFR 173.150, .203, .242	RID/ADR Dangerous Goods Code: 3
UN / NA IDENTIFICATION NUMBER: UN 1268	UN TDG Class / Pack Group: 3 / III
LABEL: FLAMMABLE LIQUID	
HAZARD SYMBOLS: F	

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SUPCO 88 Oil Additive
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SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories
Immediate health, Fire Hazard

313 Reportable Ingredients:
None

CERCLA (USA - Comprehensive Response Compensation and Liability Act)

None

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: B3, D2B

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

WGK Water Quality Index: 1

VbK Index: All

RISK PHRASES:

R10 Flammable.
R65 Damaging to lungs when swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

SYMBOL(S) REQUIRED FOR LABEL

Harmful



SAFETY PHRASES:

S23 Do not breathe vapor.
S24/25 Avoid contact with skin and eyes.
S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this label.

SECTION 16 - OTHER INFORMATION

Notes & full R-Phrase text

R10 Flammable.
R43 May cause sensitization by skin contact.
R65 Damaging to lungs when swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

HMIS HAZARD RATINGS

HEALTH	2	* = Chronic Health Hazard	2 = MODERATE
FLAMMABILITY	2	0 = INSIGNIFICANT	3 = HIGH
PHYSICAL HAZARD	0	1 = SLIGHT	4 = EXTREME
PERSONAL PROTECTIVE EQUIPMENT	B	Safety Glasses, Gloves	

REVISION SUMMARY:

This MSDS has been revised in the following sections: Complete format revision

MSDS Prepared by: Chem-Tel, Inc.
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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.