

## MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Material name Finalized on

Paroil 170 LV 08-Aug-2007

Chemical description

Short-Medium Chain Chlorinated Paraffin Blend (90/10)

CAS-No.

63449-39-8

CAS Number 85535-84-8

Product use

Lubricant

Lubricant Additive Flame Retardant **Plastics Compounding** 

Company information

DOVER CHEMICAL CORPORATION 3676 Davis Road NW, PO Box 40 Dover, OH 44622-0040 United States

**Emergency** 

CHEMTREC (U.S. and Canada) 1-800-424-9300 CHEMTREC (Outside the U.S.) 1-703-527-0585

**Technical** contact

Dover Chemical Corporation 330-343-7711

For information regarding the MSDS contact the MSDS Manager. For Technical Information or Literature contact Customer Service.

## 2. Composition / Information on Ingredients

Components

CAS#

Percent

Short Chain Chlorinated Paraffin

63449-39-8

Composition comments

CAS# 85535-84-8 is the chemical number recognized for short chain chlorinated paraffin in Europe. Therefore, the classification and labeling listed in sections 2 and 15 pertain to CAS # 85535-84-8 only; not CAS # 63449-39-8. IARC has classifed chlorinated paraffin at 60% chlorination and C-12 chain length to be a Class 2B possible carcinogen. The manufacturer states that this product contains either less or more than 60% chlorination. Therefore, the possible carcinogen classification does not apply.

### 3. Hazards Identification

**Emergency Overview** 

Health injuries are not known or expected under normal use. Prolonged or repeated exposure increases the risk. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### Potential short term health effects

Eyes

Contact with eyes may cause irritation.

Skin

Prolonged and/or repeated skin contact may result in mild irritation or redness.

Inhalation

Avoid breathing vapors or mists of this product. Inhalation of vapors in high concentration may cause irritation of respiratory system.

Ingestion

May be harmful if swallowed. Limited evidence of a carcinogenic effect.

Target organs Chronic effects Liver. Thyroid. Not established.

Main symptoms

May cause eye/skin irritation. Inhalation of vapors in high concentration may cause irritation of respiratory system.

Potential environmental

effects

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. First Aid Measures

General advice

No hazards which require special first aid measures. If you feel unwell, seek medical advice (show the label where possible).

Eye contact

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get

medical attention if irritation develops or persists.

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Skin contact Wash affected area with mild soap and water. Get medical attention if irritation develops

or persists.

Inhalation Move to fresh air in case of accidental inhalation of vapors or decomposition products, If

symptoms persist, get medical attention.

Ingestion Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical

advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions. If

ingestion of a large amount does occur, seek medical attention.

Notes to physician Treat symptomatically.

## 5. Fire Fighting Measures

**Flash Point** > 390 F (> 198.900000 °C) Pensky-Martens Closed Cup

Flammability Class Combustible IIIB General fire hazards Not a fire hazard.

Unusual fire & explosion

hazards

Containers may explode when heated.

Hazardous combustion

products

Carbon monoxide, carbon dioxide and other hydrocarbon fragments.

Special exposure hazards in Not established.

a fire

Suitable extinguishing

media

Dry chemical, foam, water fog.

Fire fighting

equipment/instructions

Firefighters should wear full protective clothing including self contained breathing apparatus. Use water spray to cool unopened containers. Move containers from fire area

if you can do it without risk. Do not scatter the material. Water runoff can cause

environmental damage.

Special protective equipment for firefighters In the event of fire, wear self contained breathing apparatus.

Extinguishing media which high volume water jet

must not be used for safety

reasons

Specific hazards

Irritating and toxic gases or fumes may be released during a fire.

Specific methods In the event of fire, cool tanks with water spray.

### 6. Accidental Release Measures

**Evacuation procedures** Isolate area. Keep unnecessary personnel away. Persons not wearing appropriate

protective equipment should be excluded from area of spill until clean-up has been

completed.

Containment procedures Stop the flow of material, if this is without risk. Dike the spilled material, where this is

possible. Do not allow product to enter sewer or waterways. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and

drainage systems and bodies of water.

Personal precautions Do not touch or walk through spilled material. Do not touch damaged containers or

spilled material unless wearing appropriate protective clothing. Local authorities should

be advised if significant spillages cannot be contained.

Prevent further leakage or spillage if safe to do so. Do not contaminate surface water. **Environmental precautions** 

Runoff may pollute waterways.

Methods for cleaning up Wear appropriate protective equipment and clothing during clean-up. Dike far ahead of

liquid spill for later disposal. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Do not allow material to contaminate ground water system. Avoid runoff into storm sewers and ditches which lead to waterways.

Spill or leak procedure Not established.

### 7. Handling and Storage

Handling Handle and open container with care. Wear personal protective equipment. Wash hands

after handling and before eating. Use appropriate container to avoid environmental

contamination.

Storage Use care in handling/storage. Keep away from heat, sparks, and flame. Keep container

closed when not in use.

Special packaging materials Not established. **Further information** Not established.

### 8. Exposure Controls / Personal Protection

### Personal protective equipment

Respiratory protection No personal respiratory protective equipment normally required. If mist is generated

(heating, spraying) and engineering controls are not sufficient, wear approved organic

vapor respirator suitable for oil mist.

Hand protection Wear appropriate chemical resistant gloves.

Eye protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection

Normal work clothing (long sleeved shirts and long pants) is recommended.

General Usual safety precautions while handling the product will provide adequate protection

against this potential effect.

**Exposure limits** Exposure Limits for this product have not been established. Avoid repeated or prolonged

exposure to vapor or mist without appropriate respiratory protection.

Engineering measures to

reduce exposure

Ensure adequate ventilation, especially in confined areas.

Control parameters Not established.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure** 

controls

Not established.

## 9. Physical & Chemical Properties

Form

Color amber Odor very faint

**Appearance** 

clear

Liquid.

Oxidizing properties

Not established.

**Specific Gravity** 

1.1 - 1.55 @ 50 /25 C

Solubility (H2O)

0.15 - 0.47 mg/l @ 20 C

Octanol/H2O Coeff

4.4 - 8

## 10. Chemical Stability & Reactivity Information

Stability Stable at normal conditions of use.

Conditions to avoid Heating to decomposition.

products

Hazardous decomposition

Carbon oxides, Hydrogen chloride.

Hazardous polymerization

Will not occur.

Incompatibility This product may react with strong reducing agents. This product may react with strong

oxidizing agents.

Materials to avoid strong oxidizing agents

## 11. Toxicological Information

**Toxicological information** Not established.

**Acute Toxicity** Acute LD50: 26100 g/kg estimated, Rat, Oral

Local effects May cause eye or skin irritation with susceptible persons.

Component analysis - LD50 Not established. Pre-existing conditions

Not established.

aggravated by exposure Synergistic materials

No data available for this product.

**Epidemiology** 

No epidemiological data is available for this product.

Neurotoxicity

No data available for this product.

Carcinogenicity

CAS # 85535-84-8:

R40 - Limited evidence of a carcinogenic effect.

Neither carcinomas nor adenomas considered separately were statistically significant nor were any unusual tumor types noted., namely under conditions which are comparable to those for possible exposure of a human being at the workplace, or from which such

comparability can be deduced.

Mutagenicity

Did not show mutagenic effects in animal experiments.

**Teratogenicity** 

Rat, NOEL: 500 mg/kg/day

Chronic toxicity Subchronic toxicity **Human experience** 

Not established. Not established.

CAS # 85535-84-8:

R40 - Limited evidence of a carcinogenic effect.

Did not cause sensitization on laboratory animals. Did not show mutagenic effects in animal experiments. Neither carcinomas nor adenomas considered separately were statistically significant nor were any unusual tumor types noted., namely under conditions which are comparable to those for possible exposure of a human being at the

workplace, or from which such comparability can be deduced.

Symptoms and target

Liver, Kidney

**Further information** 

Incomplete toxicological data are available for this product. Health injuries are not known or expected under normal use. High concentration of vapors may cause irritation to eyes

and respiratory system and produce narcotic effects.

Reproductivity

Mallard Duck NOEL: 166ppm diet

Routes of exposure

Ingestion, Inhalation, Eye contact, Skin contact.

## 12. Ecological Information

**Ecotoxicity** EC50, 0.3 - 11.1 Mg/L, Daphnia magna, 24.00 Hours

**Environmental effects** An environmental hazard cannot be excluded in the event of unprofessional handling or

disposal.

Persistence / degradability

Not established.

Bioaccumulation

Not established.

Aquatic toxicity

May cause long-term adverse effects in the aquatic environment.

**Partition coefficient** 

Not established.

## 13. Disposal Considerations

**Waste Codes** Waste codes should be assigned by the user based on the application for which the

product was used.

Disposal instructions This product, in its present state, when discarded or disposed of, is not a hazardous

waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the

product meets RCRA criteria for hazardous waste.

Waste from residues / unused products

Dispose of in accordance with local regulations.

Contaminated packaging

Do not re-use empty containers.

## 14. Transportation Information

#### DOT - bulk - Road

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCES,

LIQUID, N.O.S. (CHLORINATED PARAFFIN (C10-C13))

Hazard class

Special provisions 8, 146, IB3, T4, TP1, TP29

Packaging exceptions 155
Packaging non bulk 203
Packaging bulk 241
Quantity limits passenger No limit
Quantity limits cargo No limit
Vessel stowage location A

UN number UN3082
Packing group III

Labels required 9
Severe marine pollutant Yes
ERG number 171



Not regulated as dangerous goods.

### TDG - bulk - Road

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CHLORINATED PARAFFIN (C10-C13))

Hazard class 9

Special provisions 8, 146, IB3, T4, TP1, TP29

Packaging exceptions 155
Packaging non bulk 203
Packaging bulk 241
Quantity limits passenger No limit
Quantity limits cargo No limit

Vessel stowage location A
UN number UN3082
Packing group III
Labels required 9

Marine pollutant yes Severe marine pollutant Yes

#### TDG - Non-Bulk - Road

Not regulated as dangerous goods.

General Not established.

Further information Not established.





# 15. Regulatory Information

## Inventory status

inventory status			
Country(s) or Region	Inventory Name	On Inventory (Yes/No)*	
Australia	Australian Inventory of Chemical Substances (AICS)	Yes	
Canada	Domestic Substances List (DSL)	Yes	
Canada	Non-Domestic Substances List (NDSL)	No	
China	Inventory of Existing Chemical Substances in China (C	CCS) Yes	
Europe	European Inventory of New and Existing Chemicals (E	INECS) Yes	
Europe	European List of Notified Chemical Substances (ELING	CS) No	
Japan	Japanese Inventory of Existing and New Chemical Sub	ostances (ENCS) Yes	
Korea	Korean Inventory of Chemicals (KICS)	Yes	
New Zealand	New Zealand Inventory	Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Subst	ances (PICCS) Yes	
United States & Puerto Ri	Toxic Substances Control Act (TSCA) Inventory	Yes	
A "Yes" indicates that all ogoverning country(s)	nponents of this product comply with the inventory require	ements administered by the	
International regulations	ot established.		
US Federal Regulations	All components are on the U.S. EPA TSCA Inventory List.		
State Regulations			
	U.S Massachusetts - Right To Know List		
		ogen; Extraordinarily hazardous	
Occupational Safety and Health Administration (OSHA)			
1910.H.119 PSM Highly Hazardous Chemicals	Not Listed		
1910.Z.1200 Hazardous Chemcial	Listed		
EPA			
CERCLA 302.4 List of Hazardous Substances	Not Listed		
CWA 116.4 List of Hazardous Substances	Not Listed		
CERCLA 372 SARA Title 313 Toxic Chemicals/Categories	Listed - Category N583: 90		
CAA Hazardous Air Pollutant	Not Listed		
	Immediate Hazard - No		
CERCLA SARA Title III 311/312 Hazard Categor	Delayed Hazard - Yes		
	Fire Hazard - No		
	Pressure Hazard - No		
	Reactivity Hazard - No		
WHMIS Status	ontrolled		
WHMIS Classification	2A - Other Toxic Effects-VERY TOXIC		
Canadian Regulations	an Regulations  This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.		
Canada - CEPA - Priority Substances List			
		/ Substance List 1 (substance ered toxic)	

HMIS Ratings	Health	1
	Flammability Classification	1
	Physical	0
	Pers. Prot	В
NFPA Ratings	Health	1
	Flammability Classification	1
	Instability	0
Labelling	Xn - Harmful	
	N - Dangerous for the environment	

## 16. Other Information

**Notification date** 

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our

knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing,

storage, transportation, disposal and release.

Recommended use Not established.

Recommended restrictions Prohibited for use in metalworking fluids and leather finishing products

Further information Not established.

MSDS sections updated Chemical Product and Company Identification: Alternate Trade Names

08-Aug-2007

HazReg Data: Hazard - Regulatory Values