

**SAFETY DATA SHEET  
ACCORDING TO US CFR 1910.1200**

**1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier**  
**Grade name** **CONCENTRATE 1060**  
**GHS Product Identifier** CHLORINATED PARAFFINS (C22-30)  
**CAS No.** 063449-39-8  
**Alternative names** Paraffin Waxes, and Hydrocarbon waxes, chloro Long chain chlorinated paraffins (LCCP)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
**Identified use(s)** Plasticiser and fire retardant additive. Extreme pressure additive in metal working fluids, lubricants and lubricant additives.  
**Uses advised against** For details on specific grades please refer to technical literature.  
As a plasticiser in products for childrens' toys and food contact applications.
- 1.3 Details of the supplier of the safety data sheet**  
**Company Identification** Far West Oil Company, Inc.  
139 West Mindanao Street  
Bloomington, CA 92316  
Phone 1-909-873-1500  
**Telephone: (competent person)** 1-818-679-5080  
**E-Mail: (competent person)** sales@farwestoil.com
- 1.4 Emergency telephone number**  
call CHEMTREC (+1) 800-424-9300  
For medical emergencies call (+1) 800-317-9643

**2. SECTION 2: HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture**  
**Regulation US CFR 1910.1200** Not classified
- 2.3 Other hazards**  
This product does not contain any of the PBT substance, short-chain chlorinated paraffins (CAS No 061788-76-9).

**3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

<b>Ingredient(s)</b>	<b>%(w/w)</b>	<b>CAS No.</b>	<b>H - Codes</b>	<b>GHS Classification</b>
C22-30 chlorinated paraffin (chlorination: 42 - 48%)	100	063449-39-8	-	Not classified

**Additional Information**

Chlorinated paraffins are a group of compounds varying in molecular structure by carbon chain length and degree of chlorination. Various CAS numbers have been assigned to chlorinated paraffins and may represent specific isomers or reflect large categories.

**4. SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures**

- Inhalation** Remove patient from exposure, keep warm and at rest.
- Skin Contact** Remove contaminated clothing. Wash skin with soap and water.
- Eye Contact** Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain medical attention.
- Ingestion** Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. For large quantities - Seek medical treatment.

**4.2 Most important symptoms and effects, both acute and delayed**

If skin irritation occurs: Get medical advice/attention.

**4.3 Indication of any immediate medical attention and special treatment needed**

Unlikely to be required but if necessary treat symptomatically.

**5. SECTION 5: FIRE-FIGHTING MEASURES****5.1 Extinguishing media**

**Suitable Extinguishing Media**  
**Unsuitable Extinguishing Media**

Normal extinguishing media. Water spray, dry powder or carbon dioxide  
None anticipated.

**5.2 Special hazards arising from the substance or mixture**

Non-flammable. May decompose if heated above 200 Deg C (392 F) with liberation of hydrogen chloride.

**5.3 Advice for fire-fighters**

A self contained breathing apparatus and full protective clothing should be worn in fire conditions.

**6. SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Wear suitable gloves and eye/face protection. Ensure adequate ventilation.

**6.2 Environmental precautions**

Do not allow to enter drains, sewers or watercourses.

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

Caution - spillages may be slippery. Adsorb spillages onto sand, earth or any suitable adsorbent material.  
Transfer to a container for disposal or recovery.

**6.4 Reference to other sections**

See Section: 8, 13

**6.5 Additional information**

Spillages or uncontrolled discharges into waterways must be alerted to the Environment Protection Agency or other appropriate regulatory body.

**7. SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Provide adequate ventilation where operational procedures demand it.  
Do not allow to enter drains, sewers or watercourses.

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

Keep container dry. Keep away from direct sunlight.  
Keep only in original container at temperatures not exceeding 40 Deg C (104 F).  
Storage vessels should be made of lined mild steel in accordance with the advice given in CERECOLOR™ Bulk Storage and Handling brochure.  
Total storage life at recommended conditions: 2 years if stored in accordance with advice given above.

**7.3 Specific end use(s)**

None

**8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

ACGIH, OSHA : Not established

**8.2 Exposure controls**

*Appropriate engineering controls*

Provide adequate ventilation where operational procedures demand it.  
Use appropriate containment to avoid environmental contamination.

*Personal Protection*

**Eye/face protection**

If splashing or mist is likely to occur: Wear eye/face protection.

<b>Skin protection</b>	Good working practice suggests gloves and goggles should be worn. The following materials are suitable for protective gloves (permeation time $\geq$ 8 hours): Nitrile rubber Check with protective equipment manufacturer's data.
	Note: Users of Cereclor as extreme pressure additives in neat oil metal working fluids. Use gloves with a permeation time $>8$ hours (nitrile rubber recommended) refreshed on a daily basis.
<b>Respiratory protection</b>	Wear suitable respiratory protective equipment if exposure to mist is likely. Where a cartridge/canister respirator is suitable use: Type P (EN143) Check with protective equipment manufacturer's data.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Form</b>	liquid / viscous liquid
<b>Color</b>	Clear
<b>Odour</b>	Slight
<b>Boiling Point (°C)</b>	$> 200$ , (390 F) Decomposes below boiling point.
<b>Melting Point (Deg C)</b>	See below - Pour Point (°C)
<b>Flash point (°C)</b>	$>200$ (390 F) ( flame retardant )
<b>Explosive Properties</b>	Not explosive ( flame retardant )
<b>Vapor Pressure (Pascals)</b>	practically non-volatile
<b>Density (g/ml)</b>	1.16 - 1.24 at 25 Deg C (77 F)
<b>Solubility (Water)</b>	The substance is essentially insoluble in water. ( $<5$ $\mu\text{g/l}$ at 25 Deg C (77 F) )
<b>Solubility (Other)</b>	Soluble in most aromatic hydrocarbons, chlorinated solvents, esters and ketones.
<b>Decomposition Temperature (Deg C)</b>	$>200$ (390 F)
<b>Pour Point (°C)</b>	-30 (-22 F) to +10 (50 F)
<b>Additional properties</b>	Not oxidizing.

### 9.2 Other information

These properties are the most relevant and no other properties are available.

## 10. SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Non-reactive

### 10.2 Chemical Stability

Stable at ambient temperatures.

### 10.3 Possibility of hazardous reactions

Can react with alkali metals and alkaline earth metals which have a strong affinity for chlorine.  
Can react with iron, zinc and aluminum at high temperatures leading to decomposition.

### 10.4 Conditions to avoid

strong oxidising agents, heat and hot surfaces.  
Chlorinated paraffins tend to soften or swell most rubbers.

### 10.5 Incompatible materials

Keep away from strong oxidising agents.

### 10.6 Hazardous Decomposition Product(s)

Prolonged heating at temperatures in excess of 70 Deg C (158 F) or heating above 200 Deg C (390 F) for short periods of time will result in decomposition and liberation of hydrogen chloride.

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Test result / data

#### Acute oral toxicity

Unlikely to be hazardous if swallowed.  
LD50 (rat, oral)  $> 11,700$  mg/kg bw  
LD50 (mouse, oral)  $> 23,400$  mg/kg bw

#### Acute inhalation toxicity

Unlikely to be hazardous by inhalation because of the low vapor pressure of the material at ambient temperature.

#### Acute dermal toxicity

Unlikely to be hazardous by skin absorption.  
LD50 (rabbit, dermal)  $> 13,900$  mg/kg bw

<b>Skin irritation.</b>	No evidence of irritant effects from normal handling and use. Studies in animals have shown that repeated doses produce no significant effects
<b>Serious eye damage/irritation</b>	No evidence of irritant effects from normal handling and use. Studies in animals have shown that repeated doses produce no significant effects
<b>Respiratory irritation</b>	No data.
<b>Sensitisation</b>	It is not a skin sensitizer in animal tests.
<b>Repeated dose toxicity</b>	Repeated exposure to high levels may produce adverse effects on the liver and kidneys. NOEL (rat) (13 week(s) ): > 3,750 mg/kg bw/day . Slight effects on the liver were seen at higher doses.
<b>Germ cell mutagenicity</b>	Not mutagenic to bacteria or in in-vivo mouse bone marrow micronucleus assays.
<b>Carcinogenicity</b>	The substance is not considered to be carcinogenic. Studies in animals have shown that repeated doses do not produce carcinogenic effects. NOAEL (mouse). 2 Year(s) : >5000 mg/kg bw/day NOAEL (rat) 2 Year(s) : >3750 mg/kg bw/day
<b>Reproductive toxicity</b>	Studies in animals have shown that doses produce no teratogenic effects. No effects in conventional development toxicity studies with doses up to 5000 mg/kg/day (rat) and 2000 mg/kg/day (rabbit). NOAEL (rat) : 5000 mg/kg bw/day NOAEL (rabbit) : 2000 mg/kg bw/day
<b>Specific target organ toxicity — single exposure (STOT SE)</b>	Not classified
<b>Specific target organ toxicity — repeated exposure (STOT RE)</b>	Not classified
<b>Aspiration hazard</b>	Not an aspiration hazard
<b>Other effects</b>	None

## 12. SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Unlikely to have any ecotoxic or environmentally toxic effect.  
The substance showed no toxicity to aquatic organisms at the solubility limit.

Toxicity to aquatic species:

Fish

Salmo gairdneri (Oncorhynchus mykiss) LC50 (96 hour) : > 770 mg/l LC50 (60 day) : >4 mg/l

Leuciscus idus LC50 (48 hour) : >500 mg/l

Bluegill Sunfish (L. macrochirus) LC50 (96 hour) : >300 mg/l

Alburnus alburnus (bleak) 96hr - LC50 = >5000 mg/l

invertebrates LC50 (Daphnia magna) (48 hour) : >5.1 mg/l NOEC (21 days) : 55 µg/l

Crustacean (Mytilus edulis) NOEC (60 day) : 2.18 mg/l

### 12.2 Persistence and degradability

Concentrations in the atmosphere are likely to be very small due to low volatility. This product is expected to be partially biodegradable. There is evidence of partial hydrolysis in water. There is evidence of slow degradation in soil and water

### 12.3 Bioaccumulative potential

The product has limited potential for bioaccumulation. The product is not expected to bioaccumulate through food chains in the environment.

### 12.4 Mobility in soil

The product is predicted to have low mobility in soil.

**12.5 Results of PBT and vPvB assessment**

Not classified as PBT or vPvB.

This product does not contain any of the PBT substance, short-chain chlorinated paraffins (CAS No 061788-76-9).

**12.6 Other adverse effects**

None known.

**13. SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Do not discharge into drains or the environment, dispose to an authorized waste collection point.

**13.2 Additional information**

Disposal should be in accordance with local, state or national legislation.

**14. SECTION 14: TRANSPORT INFORMATION**

Not Classified as Dangerous for Transport.

**15. SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Not Classified as Dangerous for Supply/Use.

**US FEDERAL REGULATIONS****OSHA Classification**

This product is not classified as a "Hazardous Chemical" by definition of Hazard Communication Standard (29 CFR 1910.1200)

**Carcinogen Status**

This product is not classified as a carcinogen by IARC, NTP or OSHA.

**TSCA Inventory Status**

Listed on inventory.

**CERCLA**

Not listed

**SARA**

Sections 313 and 40 CFR 372: This product is not subject to reporting requirements.

**Hazard Categories**

SARA SECTIONS 311/312 (40CFR370.21):

ACUTE: N

CHRONIC: N

FIRE: N

REACTIVE: N

SUDDEN RELEASE: N

OSHA PROCESS SAFETY (29CFR1910.119): N

**Canadian Regulations**

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and this MSDS (Material Safety Data Sheet) contains all the information required by the CPR.

**EU**

Not classified as Dangerous according to EC Directive 67/548/EEC.

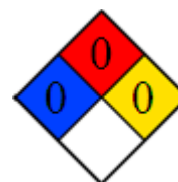
**US State Regulations**

California Proposition 65: Not listed

State Right to Know Lists : Not listed

**NFPA ratings:**

Health 0, Fire 0, Reactivity 0

**Inventory Status**

Listed in: Australia (AICS), Canada (DSL/NDL), China (IECSC), European Union (EINECS/ELINCS), Japan (ENCS), New Zealand Inventory (NZIoC), Philippines (PICCS), South Korea (KECI), Taiwan (NECI), United States (TSCA).

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment (CSA) has been completed for this substance.

**16. SECTION 16: OTHER INFORMATION****Indication of changes**

All sections revised according to GHS requirements.

**LEGEND**

ACGIH - American Conference of Governmental Industrial Hygienists  
BEI - Biological Exposure Index  
CAS - Chemical Abstracts Service Registry Number  
CFR - Code of Federal Regulations  
DOT - Department of Transportation  
EINECS - European Inventory of Existing Commercial Chemical Substances  
OSHA - Occupational Safety & Health Administration  
SARA - Superfund Amendments and Reauthorization Act of the U.S. EPA  
TDG - Transportation of Dangerous Goods Act/Regulations  
TLV - Threshold Limit Value  
TSCA - Toxic Substances Control Act  
TWA - Time-Weighted Average  
PBT - Persistent, Bioaccumulative and Toxic  
vPvB - very Persistent very Bioaccumulative

**Key literature references**

Chemical Safety Report: Paraffin Waxes, and Hydrocarbon waxes, chloro 08/09/2010  
GESTIS - database on hazardous substances

## Further information

Information in this publication is believed to be accurate and is given in good faith, but it is for the Customer to satisfy itself of the suitability for its own particular purpose. Accordingly, Far West Oil Company, Inc. gives no warranty as to the fitness of the Product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that such exclusion is prevented by law. Freedom under Patent, Copyright and Designs cannot be assumed.