QUALICE LLC
QUALITY CPAR SERVICE

SAFETY DATA SHEET

CPAR P-52 [Global Version]

Section 1. IDENTIFICATION

1.1 Product Identifier

SDS No.: 552-GLO-QLC

Product Description: **CPAR P-52 [Global Version]**
(52% chlorine by weight)

Other Means of Identification: Alkanes, C_{14-16}, Chloro; Chloro Alkanes C_{14-16}; CPAR MCCP; P-52; Medium-Chain Chlorinated Paraffin; Chlorinated Paraffins C_{14-16}

CAS Number: 1372804-76-6 Alkanes, C_{14-16}, Chloro USA
63449-39-8 Paraffin waxes and Hydrocarbon waxes, chloro International

1.2 Relevant Identified Uses of the Substance or Mixtures and Uses Advised Against

Recommended Use: Industrial Use Only

Restrictions on Use: One or more components in this material are approved for specific commercial use(s) under a U.S. EPA TSCA Significant New Use Rule or Consent Order. Approved uses include: Flame retardant and plasticizer in polymers. Flame retardant, plasticizer and lubricant in adhesives, caulks, sealants, and coatings. Additive in lubricants including metalworking fluids. Flame retardant and plasticizer in rubber. Flame retardant and waterproofer in textiles.

Uses Advised Against: No other use is permitted but what is listed in Restrictions on Use.

1.3 Details of the Supplier of the Safety Data Sheet

Company: Qualice, LLC
PO Box 1169, 11 EV Hogan Drive
Hamlet, NC 28345-1169, USA
Customer Service: 910-419-6589

SDS prepared by EHS Department: 910-419-6566

1.4 Emergency Telephone Number

FOR CHEMICAL EMERGENCY (Spill, Leak, Fire, Exposure, or Accident),
Call **CHEMTREC** Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)
Mexico (dial from in-country): 01-800-681-9531

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

- Aquatic Acute Category 1
- Aquatic Chronic Category 1

2.2 GHS Label Elements

Signal Word: **WARNING**

GHS Hazard Statements

- Very toxic to aquatic life. H400
- Very toxic to aquatic life with long lasting effects. H410
- Repeated exposure may cause skin dryness or cracking (defatting). EUH066

GHS Precautionary Statements

Prevention:

- Obtain special instructions before use. P201
- Do not breathe dusts or mists. P260
- Wash hands thoroughly after handling. P264
- Do not eat, drink or smoke when using this product. P270
- Avoid release to the environment. P273

Response:

- IF exposed or concerned: Get medical advice/attention. P308+P313
- Collect spillage. P391

Storage:

- See Section 7

Disposal:

- Dispose of contents or container in accordance with local and provincial regulations. P501

Hazards Not Otherwise Classified: None
Physical Hazards Not Otherwise Classified: None
Health Hazards Not Otherwise Classified: None

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixtures

Chemical Name	Synonyms	CAS Number	% wgt/wgt
Alkanes, C_{14-16}, chloro [52% chlorine by weight]	Medium-Chain Chlorinated Paraffin; MCCP 52% Paraffin waxes and Hydrocarbon waxes, chloro	1372804-76-6 (USA) 63449-39-8 (International)	99
Epoxidized Soybean Oil*	ESO, Stabilizer	8013-07-8	1

* The stabilizer does not contribute to the hazard classification of this product.

Section 4. FIRST AID MEASURES

4.1 Description of First Aid Measures

First Aid Procedures:

Eye Contact	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.
Skin Contact	Wash with soap and water. Get medical attention if irritation persists.
Inhalation	If respiratory irritation occurs, move to fresh air. Get medical attention if irritation persists or if breathing difficulty occurs.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. If ingestion of a large amount does occur, seek medical attention or call POISON CONTROL.

Notes to Physician: Treat symptomatically.

General Advice: If you feel unwell, seek medical advice (show the label where possible).

4.2 Most Important Symptoms and Effects, both Acute and Delayed

- Repeated exposure may cause skin dryness or cracking (defatting).
- Inhalation of vapors in high concentration may cause irritation of respiratory system.

4.3 Indication of Immediate Medical Attention or Special Treatment - None

Section 5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Extinguishing Media:

Suitable Extinguishing Media	Dry Chemical, Foam, Water Fog
Unsuitable Extinguishing Media	Avoid using water in a stream or in a high volume water jet as this will spread the fire.

5.2 Specific Hazards Arising from the Chemical including Hazardous Combustion Products

Flammable Properties:	May burn, but does not ignite readily. Containers may explode when heated.
Hazardous Combustion Products:	Irritating and toxic gases may be released during a fire (hydrogen chloride, carbon oxides).

5.3 Advice for Firefighters

Special Protective Equipment:	Wear suitable protective equipment. In event of fire, wear self-contained breathing apparatus.
Precautions for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH-certified or equivalent, and full protective gear. Move containers from fire area if you can do so without risk.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

- Keep unnecessary personnel away. Ensure adequate ventilation. Use personal protective equipment.

6.2 Environmental Precautions

- Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not contaminate water.

6.3 Methods and Materials for Containment and Cleaning Up

Containment:

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Stop leak if you can do so without risk.
- Dike the spilled material, where this is possible.
- This material is harmful to water and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Cleaning Up:

- Wear appropriate protective equipment and clothing during clean-up.

Small Spills:

- Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
- Do not return spills to original containers for re-use.

Large Spills:

- Stop the flow of material, if safe to do so.
- Prevent product from entering drains.
- Dike spilled material far ahead of liquid spill if possible. Cover with plastic sheet to prevent spreading.
- Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
- Following product recovery, use oil absorbent to collect any residual material.

6.4 Other Information

- Refer to personal protective measures listed in Section 8. For disposal, see Section 13.

Section 7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

- DO NOT handle, store or open near an open flame, sources of heat, or sources of ignition.
- Protect material from direct sunlight.
- Handle and open container with care to prevent spillage.
- Avoid prolonged or repeated skin contact with this material
- Wash hands after handling and before eating.
- Avoid breathing vapors or mists of this product.
- Wear personal protective equipment.
- Avoid release to the environment.

Advice on General Occupational Hygiene:

- Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for Safe Storage

- Keep away from heat, sparks, and flame. Store in a cool dry place. Keep container closed when not in use.
- Keep out of the reach of children.

7.3 Specific End Uses

- See Section 1.2

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Occupational Exposure Limits: Exposure limits for chlorinated paraffins have not been established. Avoid repeated or prolonged exposure to vapor or mist without appropriate respiratory protection.

8.2 Exposure Controls

Engineering Controls: Under normal conditions of use, natural ventilation should effectively remove and prevent buildup of any vapor/mist/dust generated from the handling of this product.

Personal Protective Equipment:

Eye / Face Protection: If splashes are likely to occur, wear safety glasses with side-shields or a face shield with safety glasses that meet the American National Standard Practice for Occupational and Educational Eye and Face Protection (ANSI Z-87.1)". In Canada, the Canadian Standards Association (CSA) Z94.3-M1982 "Industrial Eye and Face Protectors".

Skin Protection: Normal work clothing (long sleeved shirts and long pants) is recommended. If splashes are likely to occur, use apron or impervious suit, such as a Tyvek® coverall. If liquid contact is likely to occur, manufacturer recommends nitrile gloves (example: N-DEX Nitrile).

Respiratory Protection: No personal respiratory protective equipment normally required. If vapor or mist is generated (heating, spraying) and engineering controls are not sufficient, wear a NIOSH-certified organic vapor respirator with particulate filter for oil mist (R or P) in the USA. In Canada, select respirator in accordance with Canadian Standards Association (CSA) Z94.4-93, "Selection, Use and Care of Respirators".

8.3 Protective Measures

There are no additional protective measures during repair and maintenance of contaminated equipment.

Section 9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Appearance	Clear, pale yellow, oil-like
Physical State	Liquid
Odor	Slight
Odor Threshold	Not available
pH	Not available
Melting / Freezing Point	Does not freeze
Boiling Point	> 200 °C (>392 °F) @ 1031 hPa (773 mmHg)
Boiling Range	Not available
Flash Point	> 232 °C (450 °F) Cleveland Open Cup
Evaporation Rate	Not available
Flammability (solid, gas)	Not flammable
Flammability limits in Air, Lower % by Volume	Not available
Flammability Limits in Air, Upper % by Volume	Not available
Vapor Pressure	0.00027 Pa @ 20 °C (very low)
Vapor Density (air = 1)	Not available
Relative Density (Specific Gravity)	1.28 @ 25 °C (77 °F)
Density (g/cm^3 @ 25 °C)	1.284
Bulk Density (kg/m^3)	1,284 [10.7 lbs/gallon] (water = 8.32 lbs/gal @ 25 °C)
Solubility	Water: MCCPs are practically insoluble. For MCCP with 51% chlorine content, the value is 0.005-0.027 mg/l @ 20 °C MCCPs are practically insoluble in lower alcohols, glycerol and glycols. Soluble in chlorinated solvents, aromatic hydrocarbons, ketones, esters, ethers, mineral oil, and some cutting oils.
Partition Coefficient n-octanol/water	See Section 12
Autoignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	71 SUS @ 99 °C (210 °F)
Explosive Sensitivity to Mechanical Impact Sensitivity to Static Discharge	Will not explode Not sensitive Not sensitive
Oxidizing Properties	None

9.2 Other Information

Flash Point Classification (NFPA)	Combustible IIIB
Volatility	Not available
Saturated Vapor Concentration	0.0027 ppm @ 20°C and 760 mmHg
Emulsifiable in water	No
Color Gardner	1
Molecular Formula	$C_xH_{(2x+2-y)}Cl_y$ where x = 14-16 and y = 1-16
Structural Formula	CH_3-(CH_2)x-Cly-CH_3 where x=number of carbon atoms and y=number of chlorine atoms

Section 10. STABILITY & REACTIVITY

10.1 Reactivity

- Hazardous polymerization is not known to occur.

10.2 Chemical Stability

- Product is stable under normal conditions.

10.3 Possibility of Hazardous Reactions

- Will not occur.

10.4 Conditions to Avoid

- Heat, flames, and sparks. Avoid temperatures exceeding the flash point.

10.5 Incompatible Materials

- Strong oxidizing agents, reducing agents. Strong amines.

10.6 Hazardous Decomposition Products

- Thermal decomposition (heating higher than 200 °C (392 °F) can lead to release of irritating gases and vapors - carbon oxides, hydrogen chloride, phosgene, chlorine.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Signs & Symptoms of Exposure:

Routes of Exposure	Skin contact, eye contact, inhalation (skin is predominant route of exposure in workplace).

Delayed and Immediate Effects:

Skin	May cause slight skin irritation.
Eyes	Contact with eyes may cause slight, transient irritation.
Ingestion	Swallowing a large amount may cause gastric irritation, incontinence, injury to kidneys (necrosis) based on animal studies.
Inhalation	Inhalation of vapors or mists in high concentration may cause slight irritation of respiratory system.

Acute Toxicity, Oral	MCCP 52% ESO	LD_{50} = >5000 mg/kg, rat LD_{50} = >5000 mg/kg, rat	Product does not meet classification criteria based on available data.
Acute Toxicity, Dermal	No data available.		Product is not classifiable. Acute dermal toxicity is low due to MCCPs poorly absorbed via the dermal route
Acute Toxicity, Inhalation	No data available.		Product is not classifiable. Acute inhalation toxicity is low for a single exposure.

Skin Corrosion / Irritation	MCCP 52%: MCCP:	4 hr, rabbit, slightly irritating Human patch test, no irritation	Product does not meet classification criteria based on available data.
Serious Eye Damage / Irritation	MCCP 52%: ESO:	No irritation, rabbit No irritation, rabbit	Product does not meet classification criteria based on available data.
Irritation to Respiratory Tract	No data available.		Product is not classifiable.
Respiratory or Skin Sensitization	MCCP: ESO:	Human patch test, no allergic response Negative result, guinea pig	Product is not classifiable. Not a contact sensitizer when human or guinea pig tested for dermal sensitization.

Chronic Effects	Repeated exposure may cause skin dryness or cracking (defatting).
Specific Target Organ Toxicity – single exposure	No data available.
Specific Target Organ Toxicity – repeated - exposure	Product does not meet classification criteria based on available data. MCCP 52%: 175 mg/kg/bw NOAEL, rat oral, 14 day ESO: 1400 mg/kg/bw NOAEL, rat oral
Germ Cell Mutagenicity	MCCP 52% and ESO: Did not show mutagenic or chromosomal aberration effects in animal experiments.
Carcinogenicity	The components in this product are not listed by or considered to be a carcinogen by: IARC, NTP, US OSHA, or ACGIH.
Reproductive Toxicity	MCCP 52%: 400 mg/kg/day diet produced internal hemorrhaging in rat pups, NOAEL: 8 mg/kg/bw/day Teratogenicity or Developmental Toxicity - Negative results in animal studies. ESO: Reproductive toxicity: 1000 mg/kg/bw NOAEL, rat gavage Teratogenicity 1000 mg/kg/bw NOAEL, rat gavage
Aspiration Hazard	Product is not an aspiration hazard.
Interactive Effects	Data not available for product or components.
Neurotoxicity	Data not available for product or components.
Endocrine Disrupting Potential	Data not available for product or components.

11.2 Other Information - None

Section 12. ECOLOGICAL INFORMATION (Based on MCCP C_{14-17})

12.1 Toxicity

Ecotoxicity: Product is very toxic to aquatic life with long lasting effects.

Environmental Effects: Most ecologically significant impacts have potential to occur if released to water and sediment. Bioaccumulation potential in aquatic organisms.

Aquatic Acute Toxicity: Alkanes, C_{14-17}, chloro: EC_{50} daphnia magna, 0.0059 mg/l, 48-hr

Aquatic Chronic Toxicity: Alkanes, C_{14-17}, chloro: NOEC daphnia magna, 0.010 mg/l, 21 day

12.2 Persistence and Degradability

- Product is not expected to be readily biodegradable. MCCP - Not readily biodegradable. ESO is biodegradable (aerobic).
- MCCP - Atmospheric half-life (photo-degradation) is estimated to be 0.85 to 1.1 days.

12.3 Bioaccumulative Potential

Bioaccumulation: Does not break down naturally and has potential to bioaccumulate in aquatic organisms.

BCF: 1,087 l/kg has been estimated for fish.

12.4 Mobility in Soil

- Not expected. For MCCPs, a KOC (soil organic carbon - water partition coefficient) of 588844 l/kg has been estimated. These high KOC values indicate that MCCP are expected to be relatively immobile in soil and would not be expected to leach from soil into groundwater.
- Log K_{ow} 4.9 to 12 (range for MCCPs)
- Log P_{ow} 5.47 to 8.01 calculated (MCCP 52%)

12.5 Results of PBT and vPvB Assessment

European Assessment is ongoing, not completed.

12.6 Other Adverse Effects

Ozone Depletion Potential:	Not determined
Endocrine Disrupting Potential:	Not determined
Global Warming Potential:	No

Section 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste Codes:	Waste codes should be assigned by the user based on the application for which the product was used.
Disposal Instructions:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies.
Waste from Residues and Unused Products:	Dispose of in accordance with federal, state, and local regulations.
Contaminated Packaging:	Do not re-use empty containers for other substances. Empty containers should be taken to an approved waste handling site for recycling or disposal.

13.2 Additional Information None

Section 14. TRANSPORT INFORMATION

US DOT Not regulated as hazardous material.

IMDG (Water)

14.1	UN Number	UN3082
14.2	Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
14.3	Hazard Class	9
14.4	Packing Group	III
14.5	Marine Pollutant	Yes
		Per IMDG Section 2.9.3.3: This substance is classified as a Marine Pollutant. It satisfies criteria for Acute 1: EC50 crustacea, < 1 mg/l, 48-hr. See EC50 data in Section 12.
14.6	Special Precautions	None
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

Additional Information:

Packaging Exceptions	155
ERG	171
Labels Required	9 and Environmentally Hazardous Substance (EHS - Marine Pollutant)

IATA (Air)

Basic Shipping Requirements:

UN Number	UN3082
Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s.
Hazard Class	9
Packing Group	III
Labels Required	9, EHS

Additional Information:

Packaging Instruction	914

Section 15. REGULATORY INFORMATION

15.1 Regulatory Information

US FEDERAL REGULATIONS:

OSHA:	This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200
CERCLA Reportable Quantity: (RQ) per 40 CFR 302.4	Not listed.
SARA 302: Extremely Hazardous Substance:	Not listed.
SARA 311/312 Hazardous chemical:	No
Superfund Amendments and Reauthorization Act of 1986 (SARA):	Hazard categories: None that meet OSHA.
SARA 313 (TRI reporting):	Not regulated.

STATE REGULATIONS:

California:	This product does not contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.
Maine:	MCCPs are listed as a chemical of concern to children.

INVENTORY STATUS FOR CAS No. 63449-39-8 Paraffin waxes and Hydrocarbon waxes, chloro

CAS No. 8013-07-8 Epoxidized Soybean Oil

Country	Inventory name		On inventory (yes/no)*
Australia	AICS	Australian Inventory of Chemical Substances	Yes
Canada	DSL	Domestic Substances List	Yes
Canada	NDSL	Non-Domestic Substances List	No
China	IECSC	Inventory of Existing Chemical Substances in China	Yes
Europe	EINECS	European Inventory of Existing Commercial Chemical Substances	Yes
Europe	ELINCS	European List of Notified Chemical Substances	No
Japan	ENCS	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	ECL	Existing Chemicals List	Yes
Mexico	INSQ	National Inventory of Chemical Substances	Yes
New Zealand	NZIoC	New Zealand Inventory	Yes
Philippines	PICCS	Philippine Inventory of Chemicals and Chemical Substances	Yes
Taiwan	NECI	National Existing Chemical Inventory	Yes
United States & Puerto Rico	TSCA	Toxic Substances Control Act Inventory	Yes
United States	TSCA	Toxic Substances Control Act Inventory (USA has CAS No. 1372804-76-6 for Alkanes, C_{14-16}, Chloro	Yes

* "Yes" indicates that all components of this product comply with the inventory requirements of the governing country(ies).

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance by the supplier.

Section 16. OTHER INFORMATION

NFPA Rating:

Health:	1
Flammability:	1
Instability:	0

Abbreviations and Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists
BCF	Bioconcentration Factor: BCF is often expressed in units of liter per kilogram (ratio of mg of chemical per kg of organism to mg of chemical per liter of water).
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response, Compensation, and Liability, Act (USA)
CFR	Code of Federal Regulations (USA)
CHEMTREC	Chemical Transportation Emergency Center
DOT	Department of Transportation (USA)
EC_{50}	Half Maximal Effective Concentration - concentration of a material in water, a single dose which is expected to cause a biological effect on 50% of a group of test species.
EPCRA	Emergency Planning and Community Right-to-Know Act
ESO	Epoxidized Soybean Oil
IARC	International Agency for Research on Cancer
IMDG	International Maritime Dangerous Goods
LD_{50}	Lethal Dose - median dose at which 50% test animals die from oral or dermal exposure
MCCP(s)	Medium Chain Chlorinated Paraffin(s)
MCCP 52%	Medium Chain Chlorinated Paraffin (Alkanes, $C_{14\text{-}16}$, chloro with 52% chlorine)
NTP	National Toxicology Program
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health (USA)
NOEC	No Observed Effect Concentration
OSHA	Occupational Health and Safety Administration (USA)
PBT / vPvB	Persistent, Bioaccumulative, Toxic / Very Persistent and Very Bioaccumulative
ppm	part per million
PPE	Personal Protective Equipment
SARA	Superfund Amendments and Reauthorization Act (USA)
TRI	Toxics Release Inventory (US EPA)

Key Literature References and Sources of Data:

- Toxnet – Toxicology Data Network, United States National Library of Medicine
- The International Uniform Chemical Information Database (**IUCLID**) – Organization for Economic Cooperation and Development (OECD)
- ECHA Database (European Chemicals Agency)

Version 1 Date: June 07, 2019

Revision History:

06-07-19 Initial GHS Version

910-419-6566 Contact the EHS Regulatory Compliance Manager for additional information on the substance for hazard evaluation and any appropriate emergency procedures.

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 guidance for safe handling, use, processing, storage, transportation, disposal, and release. The information in the sheet was written based on the best knowledge and experience currently available.