

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Identification

Product name : GCR-50 Magnetic Crack Detection Oil Carrier  
Also Known As : Soltrol® 170 Isoparaffin  
Material : 1017358, 1017353, 1017352, 1017355, 1017357, 1017359, 1017354, 1017356

### 1.2. Details of the supplier of the safety data sheet

Distributor : Goodson Manufacturing Company  
156 Galewski Drive  
Winona, MN 55987-0847 - USA  
T 507-452-1830

### 1.3. Emergency telephone number

Emergency number : 800-924-6804 (24 hours)

## SECTION 2: Hazard(s) Identification

### 2.1. Classification of the Substance or Mixture

Classification : This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Emergency Overview : Danger.

Form : Liquid

Physical State : Liquid

Color : Colorless at room temperature

Odor : Mild Hydrocarbon

OSHA Hazards : Combustible Liquid

Flammable Liquids : Category 4

Aspiration Hazard : Category 1

### 2.2. Label elements

GHS-US labeling  
Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : Combustible Liquid.  
May be fatal if swallowed and enters airways.

Precautionary statements (GHS-US) : Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wear protective gloves/eye protection/face protection.

Response : **If swallowed:** Immediately call a poison control center or doctor/physician. Do NOT induce vomiting.  
**In Case of Fire:** Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage : Store in a well-ventilated place. Keep cool. Store locked up.

Disposal : Dispose of contents/containers to an approved waste disposal plant.

Carcinogenicity : IARC : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.  
NTP : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by NTP.

Carcinogenicity (continued) : ACGIH : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by ACGIH.

### SECTION 3: Composition/information on ingredients

Synonyms : None established.  
Molecular Formula : UVCB

| Component          | CAS Number   | Weight % |
|--------------------|--------------|----------|
| C12-C14 Isoalkanes | 0068551-19-9 | 100%     |

### SECTION 4: First Aid Measures

#### 4.1. Description of Necessary First Aid Measures

General Advice : Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave victim unattended.

If Inhaled : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a doctor/physician.

In Case of Skin Contact : If on skin, rinse well with water. If on clothes, remove clothes.

In Case of Eye Contact : Flush eyes with water as a precaution. Remove contact lenses if present and easy to do so. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed : Immediately take victim to hospital. Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

### SECTION 5: Fire-Fighting Measures

Flash Point : > 79.4°C (>174.9°F)  
Method: Tag closed cup.

Autoignition Temperature : No data available.

Suitable Extinguishing Media : Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable Extinguishing Media : High volume water jet.

Special Protective Equipment for Firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further Information : For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

Fire & Explosion Protection : Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.

Hazardous Decomposition Products : Carbon Dioxide. Carbon Oxides.

### SECTION 6: Accidental Release Measures

Personal Precautions : Use personal protective equipment. Ensure adequate ventilation.

Environmental Precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains, inform respective authorities.

Methods for Clean Up : Contain spillage and then collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in a container for disposal according to local / national regulations (see Section 13). Keep in suitable, closed containers for disposal.

### SECTION 7: Handling and Storage

#### 7.1. Precautions for Safe Handling

- Advice on Safe Handling : Avoid formation of aerosol. Do not breath vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
- Protection Against Fire or Explosion : Do not spray on open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

- Storage conditions : No smoking. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations/working materials must comply with the technological safety standards.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Chevron Phillips Chemical Company LP

| Ingredients        | CAS          | Value | Control Parameters      | Notes |
|--------------------|--------------|-------|-------------------------|-------|
| C12-C14 Isoalkanes | 0068551-19-9 | TWA   | 1,200 mg/m <sup>3</sup> | RCP   |

RCP=Reciprocal Calculation Procedure

#### 8.2. Appropriate Engineering Controls

- Engineering Controls : Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (Section 2), applicable exposure limits, job activities and other substances in the workplace when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

#### 8.3. Individual Protection Measures, Such as Personal Protective Equipment (PPE)

- Respiratory Protection : Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Dust and Mists/P100. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known or other circumstances where air-purifying respirators may not provide adequate protection.
- Hand Protection : The suitability for a specific workplace should be discussed with the producers of the protective 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. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Eye Protection : Eye wash bottle with pure water. Tightly fitting safety goggles.
- Skin and Body Protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear as appropriate: Protective suit(s). Protective shoes.
- Hygiene Measures : Do not eat, drink or smoke when using. Wash hands thoroughly before breaks and at the end of the workday.

### SECTION 9: Physical and Chemical Properties

|  |  |
|--|--|
| Form                                   | : Liquid   |
| Physical State                         | : Liquid   |
| Color                                  | : Colorless at room temperature                  |
| Odor                                   | : Mild, Hydrocarbon                              |
| Flash Point                            | : > 79.4°C (> 174.9°F)<br>Method: Tag closed cup |
| Lower Explosion Limit                  | : No data available                              |
| Upper Explosion Limit                  | : No data available                              |
| Oxidizing Properties                   | : No   |
| Autoignition Temperature               | : No data available                              |
| Thermal Decomposition                  | : No data available                              |
| Molecular Formula                      | : UVCB   |
| Molecular Weight                       | : Not applicable                                 |
| pH                                     | : 7  |
| Pour Point                             | : No data available                              |
| Boiling Point/Boiling Range            | : 217° to 246°C (423° to 475°F)                  |
| Vapor Pressure                         | : 0.70 MMHG at 37.8°C (100.0°F)                  |
| Relative Density                       | : 0.78, 15.6°C (60.1°F)                          |
| Water Solubility                       | : Negligible                                     |
| Partition Coefficient: n-octanol/water | : No data available                              |
| Viscosity, Kinematic                   | : 2.6 cSt at 38°C (100°F)                        |
| Relative Vapor Density (Air =1)        | : 3  |
| Evaporation Rate                       | : 0.01   |

### SECTION 10: Stability and Reactivity

|                                  |  |
|----------------------------------|--|
| Chemical Stability               | : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. |
| Conditions to Avoid              | : Heat, flames and sparks.   |
| Materials to Avoid               | : May react with oxygen and strong oxidizing agents such as chlorates, nitrates, peroxides, etc.                                       |
| Thermal Decomposition            | : No data available  |
| Hazardous Decomposition Products | : Carbon Dioxide. Carbon Oxides.   |
| Other Data                       | : No decomposition if stored and applied as directed.  |

### SECTION 11: Toxicological Information

**Acute Oral Toxicity** C12-C14 Isoalkanes: LD<sub>50</sub>: >5000 mg/kg, Species: Rat, Method: OECD Test Guideline 401  
Information given is based on data obtained from similar substances

**Acute Inhalation Toxicity**

C12-C14 Isoalkanes : LC<sub>50</sub>: >5.3 mg/L, Exposure Time: 4h, Species: Rat, Test Atmosphere: Vapor, Method: OECD Test Guideline 403  
Information given is based on data obtained from similar substances

**Skin Irritation** C12-C14 Isoalkanes : No skin irritation.  
Information given is based on data obtained from similar substances

**Eye Irritation** C12-C14 Isoalkanes : No eye irritation  
Information given is based on data obtained from similar substances

**Sensitization** C12-C14 Isoalkanes : Classification: Did not cause sensitization on laboratory animals  
Information given is based on data obtained from similar substances

**Repeated Dose Toxicity**

**C12-C14 Isoalkanes**

- : Species: Monkey, Application Route: Inhalation, Dose: 0, 654 ppm  
Exposure: 4 wk; Number of Exposures: 6 h/d, 3 d/wk NOEL: >654 ppm  
Method: OECD Test Guideline 412
- : Species: Rat, Sex: Male & Female, Application Route: oral gavage,  
Dose: 0, 25, 150, 1000 mg/kg/d, Exposure Time: 4 wk, Number of Exposures:  
daily, NOEL: >= 1000 mg/kg/d, Method: OECD Guideline 422  
Information given is based on data obtained from similar substances.

**Reproductive Toxicity**

**C12-C14 Isoalkanes**

- : Species: Rat, Sex: Male, Application Route: oral gavage, Dose 0, 750, 1500, 3000  
mg/kg/bw/d, Number of Exposures: daily, Test Period: 90 d, Method: OECD Test  
Guideline 415, NOAEL Parent: >= 3000 mg/kg/bw/d  
Information given is based on data obtained from similar substances
- : Species: Rat, Sex: Female, Application Route: oral gavage, Dose 0, 750, 1500  
mg/kg/bw/d, Number of Exposures: daily, Test Period: 90 d, Method: OECD Test  
Guideline 415, NOAEL Parent: >= 1500 mg/kg/bw/d, NOAEL F1: 750 mg/kg/bw/d  
Information given is based on data obtained from similar substances
- : Species: Rat, Sex: Male & Female, Application Route: inhalation (vapor),  
Dose 100, 300 ppm, Number of Exposures: 6h/d/5d/wk Test Period: 8 wk,  
Method: OECD Test Guideline 421, NOAEL Parent: >= 300 ppm,  
NOAEL F1: >= 300 ppm  
Information given is based on data obtained from similar substances

**Developmental Toxicity**

**C12-C14 Isoalkanes**

- : Species: Rat, Application Route: inhalation, Dose 100, 300 ppm, Exposure Time:  
GD 6-15, Number of Exposures: 6 h/d, NOAEL Teratogenicity: >= 300 ppm  
Information given is based on data obtained from similar substances
- : Species: Rat, Application Route: inhalation, Dose 300, 900 ppm, Exposure Time:  
GD 6-15, Number of Exposures: 6h/d, Method: OECD Test Guideline 414,  
NOAEL Teratogenicity: >= 900 ppm, NOAEL Maternal: >= 900 ppm  
Information given is based on data obtained from similar substances
- : Species: Rat, Application Route: oral gavage, Dose 0, 500, 1000, 1500 mg/kg/d,  
Exposure Time: GD 6-15, Number of Exposures: daily,  
Method: OECD Test Guideline 414, NOAEL Teratogenicity: 1000 mg/kg,  
NOAEL Maternal: 500 mg/kg  
Information given is based on data obtained from similar substances

**Soltrol® 170 Isoparaffin**

**Aspiration Toxicity**

- : May be fatal if swallowed and enters airways. Substances known to cause human  
airway toxicity hazards or to be regarded as if they cause human aspiration  
toxicity hazard.

**CMR Effects C12-C14 Isoalkanes**

- : Carcinogenicity: Limited evidence of carcinogenicity in animal studies  
Mutagenicity: Test on bacterial or mammalian cell cultures did not show  
mutagenic effects. In vivo tests did not show mutagenic effects.  
Teratogenicity: Animal testing did not show any effects on fetal development  
Reproductive Toxicity: No adverse effects expected.

**Soltrol® 170 Isoparaffin**

**Further Information**

- : Solvents may degrease skin.

## SECTION 12: Ecological Information

**Toxicity to Fish** C12-C14 Isoalkanes :  $LL_{50}$ : > 1,000 mg/l, Exposure time: 96 h, Species: Oncorhynchus mykiss (rainbow trout), semi-static test Method: OECD Test Guideline 203  
Information given is based on data obtained from similar substances.

**Toxicity To Daphnia And Other Aquatic Invertebrates**

C12-C14 Isoalkanes :  $EL_{50}$ : > 1,000 mg/l, Exposure time: 48 h, Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202  
Information given is based on data obtained from similar substances.

**Toxicity to Algae** C12-C14 Isoalkanes :  $EL_{50}$ : > 1,000 mg/l, Exposure time: 72 h, Species: Pseudokirchneriella subcapitata (green algae), Growth inhibition Method: OECD Test Guideline 201  
Information given is based on data obtained from similar substances.

**Toxicity to Fish (Chronic toxicity)**

C12-C14 Isoalkanes : NOELR: 0.316 mg/l, Exposure time: 28 d, Species: Oncorhynchus mykiss (rainbow trout), Method: QSAR modeled data

**Elimination Information (persistence and degradability)**

Biodegradability : Expected to be biodegradable

**Ecotoxicology Assessment**

Results of PBT assessment

C12-C14 Isoalkanes : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological information : No data available

## SECTION 13: Disposal Considerations

Note: : This information pertains only to the product as shipped.  
Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria for hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other state and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated Packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn or use a cutting torch on empty packaging.

## SECTION 14: Transport Information

**The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).**

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flash points for the material may vary slightly between the SDS and the bill of lading.

US DOT : (UNITED STATES DEPARTMENT OF TRANSPORTATION) not regulated as a hazardous material or dangerous goods for transportation by this agency. Testing (ASTM D4206) has shown product does not sustain combustion.

IMO / IMDG : (INTERNATIONAL MARITIME DANGEROUS GOODS) not regulated as a hazardous material or dangerous goods for transportation by this agency.

IATA : (INTERNATIONAL AIR TRANSPORT ASSOCIATION) not regulated as a hazardous material or dangerous goods for transportation by this agency.

# GOODSON

Tools and Supplies for Engine Builders

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Toll-Free 1-800-533-8010 • Local 507-452-1830 • www.goodson.com

## GCR-50 Magnetic Crack Detection Oil

### Safety Data Sheet

Date of Issue: 11/20/2014, Version 1.7

Supercedes All Previous MSDS/SDS

|     |   |   |
|-----|---|---|
| ADR | : | (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE)) not regulated as a hazardous material or dangerous goods for transportation by this agency.   |
| RID | : | (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE)) not regulated as a hazardous material or dangerous goods for transportation by this agency.                  |
| ADN | : | (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS) not regulated as a hazardous material or dangerous goods for transportation by this agency. |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

## SECTION 15: Regulatory Information

### National Legislation

SARA 311/312 Hazards : Fire Hazard

### EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

CERCLA Reportable Quantity : This material does not contain any components with a CERCLA RQ.  
SARA 302 Reportable Quantity : This material does not contain any components with a SARA 302 RQ.  
SARA 302 Threshold Planning Quantity : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.  
SARA 304 Reportable Quantity : This material does not contain any components with a section 304 EHS RQ.  
SARA 313 Ingredients : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).  
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

### US State Regulations

Pennsylvania Right To Know : C12-C14 Isoalkanes - 0068551-19-9  
New Jersey Right To Know : C12-C14 Isoalkanes - 0068551-19-9  
California Prop. 65 Ingredients : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### Notification status

Europe REACH : This mixture contains only ingredients which have been subject to a pre-registration according to Regulation (EU) No. 1907/2006 (REACH).  
United States of America TSCA : On TSCA Inventory  
Canada DSL : All components of this product are on the Canadian DSL.  
Australia AICS : On the inventory, or in compliance with the inventory  
New Zealand NZIoC : This substance may be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right  
Japan ENCS : On the inventory, or in compliance with the inventory  
Korea KECI : On the inventory, or in compliance with the inventory  
Philippines PICCS : Not in compliance with the inventory  
China IECSC : On the inventory, or in compliance with the inventory

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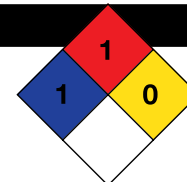
Supersedes All Previous MSDS/SDS

#### SECTION 16: Other Information

NFPA Classification : Health Hazard: 1, Fire Hazard: 1, Reactivity Hazard: 0

##### Further information

Legacy SDS Number : 47800



##### Key or legend to abbreviations and acronyms used in the safety data sheet

|        |  |       |  |
|--------|--|-------|--|
| ACGIH  | American Conference of Government Industrial Hygienists  | LD50  | Lethal Dose 50%  |
| AICS   | Australia, Inventory of Chemical Substances              | LOAEL | Lowest Observed Adverse Effect Level   |
| DSL    | Canada, Domestic Substances List                         | NFPA  | National Fire Protection Agency  |
| NDSL   | Canada, Non-Domestic Substances List                     | NIOSH | National Institute for Occupational Safety & Health                                  |
| CNS    | Central Nervous System                                   | NTP   | National Toxicology Program  |
| CAS    | Chemical Abstract Service                                | NZIoC | New Zealand Inventory of Chemicals   |
| EC50   | Effective Concentration                                  | NOAEL | No Observable Adverse Effect Level   |
| EC50   | Effective Concentration 50%                              | NOEC  | No Observed Effect Concentration   |
| EGEST  | EOSCA Generic Exposure Scenario Tool                     | OSHA  | Occupational Safety & Health Administration  |
| EOSCA  | European Oilfield Specialty Chemicals Association        | PEL   | Permissible Exposure Limit   |
| EINECS | European Inventory of Existing Chemical Substances       | PICCS | Philippines Inventory of Commercial Chemical Substances                              |
| MAK    | Germany Maximum Concentration Values                     | PRNT  | Presumed Not Toxic   |
| GHS    | Globally Harmonized System                               | RCRA  | Resource Conservation Recovery Act   |
| >=     | Greater Than or Equal To                                 | STEL  | Short-term Exposure Limit  |
| IC50   | Inhibition Concentration 50%                             | SARA  | Superfund Amendments and Reauthorization Act   |
| IARC   | International Agency for Research on Cancer              | TLV   | Threshold Limit Value  |
| IECSC  | Inventory of Existing Chemical                           | TWA   | Time Weighted Average  |
| ENCS   | Japan, Inventory of Existing and New Chemical Substances | TSCA  | Toxic Substance Control Act  |
| KECI   | Korea, Existing Chemical Inventory                       | UVCB  | Unknown or Variable Composition, Complex Reaction Products, and Biological Materials |
| <=     | Less Than or Equal To                                    | WHMIS | Workplace Hazardous Materials Information System                                     |
| LC50   | Lethal Concentration 50%                                 |       |  |

##### Disclaimer

: The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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. As data and/or regulations change, and conditions of use and handling are beyond control, no warranty, expressed or implied is made. Personnel handling this material must make independent determinations of the suitability and completeness of information to assure proper use and disposal of this material and the safety and health of employees and customers. The buyer assumes all responsibility of using and handling the product in accordance with applicable Federal, State and Local regulations. The user should consider the health hazards and safety information herein as a guide and should take necessary steps to train employees and to develop work practice procedures to ensure a safe work environment.

End of Safety Data Sheet