

Safety Data Sheet PROVANTAGE

Supersedes Date 07/26/2012

Issuing Date 10/30/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name PROVANTAGE
Recommended use Lubricant
Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code 0536
Chemical nature Petroleum distillates
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Red

Physical state liquid

Odor Petroleum distillates

GHS

Classification

Physical Hazards

None

Health Hazard

Serious Eye Damage/Eye Irritation

Skin sensitization

Carcinogenicity

Specific target organ systemic toxicity (single exposure)

Specific target organ toxicity (repeated exposure)

Category 2B

Category 1

Category 2

Category 3

Category 2

Other hazards

None

Labeling

Signal Word

WARNING



Hazard statements

H317 - May cause an allergic skin reaction

H320 - Causes eye irritation

H336 - May cause drowsiness or dizziness

H373 - May cause damage to organs through prolonged or repeated exposure

H351 - Suspected of causing cancer

Precautionary Statements

P202 - Do not handle until all safety precautions have been read and understood

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves, protective clothing and eye protection.

P272 - Contaminated work clothing should not be allowed out of the workplace

P271 - Use in a well-ventilated area.

P260 - Do not breathe mist

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs, get medical attention

P363 - Wash contaminated clothing before reuse

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists, get medical attention.

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P312 - Call a physician if unwell.

P308 + P313 - IF exposed or concerned, get medical attention

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

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

4 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS No. | Weight % * |
|--|--------------|------------|
| Petroleum distillates, solvent dewaxed heavy paraffinic (<3% DMSO extractable) | 64742-65-0 | 30-60 |
| Residual oils (petroleum), solvent refined (<3% DMSO extractable) | 64742-01-4 | 10-30 |
| Residual oils (petroleum), solvent dewaxed (<3% DMSO extractable) | 64742-62-7 | 10-30 |
| NAFTA AROMATICA | 64742-94-5 | 1-5 |
| Zinc alkyl dithiophosphate | 68649-42-3 | 1-5 |
| Petroleum distillates, hydrotreated heavy paraffinic (<3% DMSO extractable) | 64742-54-7 | 1-5 |
| 2,6-Di-tert-butylphenol | 128-39-2 | 1-5 |
| Proprietary Alkyl phenol HMIRC# 7458 | TRADE SECRET | 1-5 |
| Naphthalene | 91-20-3 | 0.1-1 |
| Cumene | 98-82-8 | 0.1-1 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 0.1-1 |

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

| | |
|---------------------------|---|
| General advice | Avoid contact with skin, eyes and clothing. Avoid breathing mist. |
| Eye Contact | Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists. |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use. |
| Inhalation | If inhaled, remove to fresh air. Get medical attention if symptoms occur. |
| Ingestion | Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur. |
| Notes to physician | May cause sensitization of susceptible persons. |

5. FIRE-FIGHTING MEASURES

| | | | |
|--|---|-----------------------|----------------------|
| Flash Point | > 201 °F / > 94 °C | Method | Tag closed cup |
| Flammability Limits in Air %: | No information available. | Upper: | No data available |
| Suitable Extinguishing Media | Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. | | |
| Specific hazards arising from the chemical | Material can create slippery conditions. | | |
| Protective Equipment and Precautions for Firefighters | As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear. | | |
| NFPA | Health 2 | Flammability 1 | Instability 0 |
| HMIS | Health 2 | Flammability 1 | Instability 0 |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|---|
| Personal Precautions | Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions. |
| Environmental Precautions | Do not flush into surface water or sanitary sewer system. |
| Methods for Containment | Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). |
| Methods for Cleaning Up | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). |
| Neutralizing Agent | Not applicable. |

7. HANDLING AND STORAGE

| | | | | |
|----------------------------|---|----------------|----------------|-----------------------------------|
| Handling | Avoid contact with skin, eyes and clothing. Avoid breathing mist. | | | |
| Storage | Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. | | | |
| Storage Temperature | Minimum | -9 °F / -23 °C | Maximum | 129 °F / 54 °C |
| Storage Conditions | Indoor | X | Outdoor | Heated Refrigerated |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

| Component | ACGIH TLV | OSHA PEL | NIOSH |
|--|---|--------------------------|-------------------|
| Petroleum distillates, solvent dewaxed heavy paraffinic (<3% DMSO extractable) | TWA: 5 mg/m ³ STEL: 10 mg/m ³ | TWA: 5 mg/m ³ | No data available |

| | | | |
|---|--|---|---|
| Residual oils (petroleum), solvent refined (<3% DMSO extractable) | 5 mg/m ³ | 5 mg/m ³ | No data available |
| Petroleum distillates, hydrotreated heavy paraffinic (<3% DMSO extractable) | TWA: 5 mg/m ³ STEL: 10 mg/m ³ | TWA: 5 mg/m ³ | No data available |
| Naphthalene | TWA: 10 ppm Skin | TWA: 10 ppm TWA: 50 mg/m ³ | 250 ppm STEL 15 ppm STEL 75 mg/m ³ TWA: 10 ppm TWA: 50 mg/m ³ |
| Cumene | TWA: 50 ppm | TWA: 50 ppm TWA: 245 mg/m ³ Skin | 900 ppm TWA: 50 ppm TWA: 245 mg/m ³ |
| 1,3,5-Trimethylbenzene | TWA: 25 ppm | No data available | TWA: 25 ppm TWA: 125 mg/m ³ |

Engineering Measures Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields.

Skin Protection

Wear suitable protective clothing, Impervious gloves.

Respiratory Protection

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations

Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--------------------------------------|---------------------------|----------------------------------|-----------------------|
| Physical state | liquid | Viscosity | Slightly Viscous |
| Color | Red | Odor | Petroleum distillates |
| Odor Threshold | Not applicable | Appearance | Transparent |
| pH | Not applicable | Specific Gravity | 0.91 |
| Evaporation Rate | 0.01 (Butyl acetate=1) | Percent Volatile (Volume) | 0 |
| VOC Content (%) | 10.5 | VOC Content (g/L) | 0 |
| Vapor Pressure | 0.18 mmHg @ 70°F | Vapor Density | 6.0 |
| Solubility | Negligible | n-Octanol/Water Partition | No data available |
| Melting Point/Range | No data available | Decomposition Temperature | No data available |
| Boiling Point/Range | 601 °F / 316 °C | Flammability (solid, gas) | No data available |
| Flash Point | > 201 °F / > 94 °C | Method | Tag closed cup |
| Autoignition Temperature | No information available. | | |
| Flammability Limits in Air %: | No information available | Upper: | No data available |
| | | Lower: | No data available |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Chemical Stability | Stable. Hazardous polymerization does not occur. |
| Conditions to Avoid | None known. |
| Incompatible Products | Strong oxidizing agents, Reducing agents, Acids, Aldehydes, Halogenated compounds, Acid anhydrides. |
| Decomposition Temperature | No data available |
| Hazardous Decomposition Products | Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Oxides of phosphorus, Zinc oxide fumes, Aldehydes, Smoke, Sulfides. |
| Possibility of Hazardous Reactions | None under normal processing. |

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document

Dermal LD50 No information available

Inhalation LC50

Gas No information available

Mist No information available

Vapor No information available

Principle Route of Exposure Skin contact, Eye contact.

Primary Routes of Entry Ingestion.

Acute Effects:

Eyes Causes eye irritation.

Skin May cause sensitization by skin contact. Repeated exposure may cause skin dryness or cracking.

Inhalation May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May

cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Ingestion
Chronic Toxicity

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Prolonged skin contact may defat the skin and produce dermatitis. May cause sensitization by skin contact. Liver and kidney injuries may occur. Contains a known or suspected carcinogen.

Target Organ Effects
Aggravated Medical Conditions

Liver, Kidney, Central nervous system, Heart, Blood, Lungs, Eyes, Skin, Immune system. Skin disorders, Respiratory disorders, Liver disorders, Kidney disorders, Blood disorders, Neurological disorders, Heart disease.

Component Information

Acute Toxicity

| Component | Oral LD50 | Dermal LD50 | Inhalation LC50 | Draize Test | Other |
|--|----------------------|--------------------------|-------------------------------------|-------------------|-------------------|
| Petroleum distillates, solvent dewaxed heavy paraffinic (<3% DMSO extractable) 64742-65-0 | >5000 mg/kg (rat) | >5000 mg/kg (rabbit) | no data available | no data available | no data available |
| Residual oils (petroleum), solvent refined (<3% DMSO extractable) 64742-01-4 | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | = 2.18 mg/L (Rat) 4 h | no data available | no data available |
| Residual oils (petroleum), solvent dewaxed (<3% DMSO extractable) 64742-62-7 | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | = 2.18 mg/L (Rat) 4 h | no data available | no data available |
| NAFTA AROMATICA 64742-94-5 | > 5000 mg/kg (Rat) | > 2 mL/kg (Rabbit) | > 590 mg/m ³ (Rat) 4 h | no data available | no data available |
| Petroleum distillates, hydrotreated heavy paraffinic (<3% DMSO extractable) 64742-54-7 | > 5000 mg/kg (Rat) | > 5000 mg/kg (Rabbit) | no data available | no data available | no data available |
| 2,6-Di-tert-butylphenol 128-39-2 | > 5000 mg/kg (Rat) | > 10 g/kg (Rabbit) | no data available | no data available | no data available |
| Naphthalene 91-20-3 | = 1110 mg/kg (Rat) | = 1120 mg/kg (Rabbit) | > 340 mg/m ³ (Rat) 1 h | no data available | no data available |
| Cumene 98-82-8 | = 1400 mg/kg (Rat) | = 12300 µL/kg (Rabbit) | > 3577 ppm (Rat) 6 h | no data available | no data available |
| 1,3,5-Trimethylbenzene 108-67-8 | no data available | no data available | = 24 g/m ³ (Rat) 4 h | no data available | no data available |

| Component | Mutagenicity | Sensitization | Developmental Toxicity | Reproductive Toxicity | Target Organ Effects |
|------------------------------------|-------------------|--------------------|------------------------|-----------------------|---|
| Naphthalene 91-20-3 | no data available | Skin sensitization | no data available | no data available | Blood, Skin, Central nervous system, Eyes, Liver, Kidney |
| Cumene 98-82-8 | no data available | no data available | no data available | no data available | Skin, Central nervous system, Eyes, Respiratory system |
| 1,3,5-Trimethylbenzene 108-67-8 | no data available | no data available | no data available | no data available | Blood, Skin, Central nervous system, Eyes, Respiratory system |

Carcinogenicity

| Component | ACGIH | IARC | NTP | OSHA | Other |
|------------------------|----------------|----------|----------------|----------------|----------------|
| Naphthalene 91-20-3 | not applicable | 2B | not applicable | not applicable | not applicable |
| Cumene 98-82-8 | not applicable | Group 2B | not applicable | X | not applicable |

12. ECOLOGICAL INFORMATION

Product Information

No information available.

Component Information

| Component | Toxicity to Algae | Toxicity to Fish | Microtox | Crustacea | log Pow |
|--|---------------------------|--|--------------------------|------------------------------------|---------|
| Petroleum distillates, solvent dewaxed heavy paraffinic (<3% DMSO extractable) | No information available. | LC50 > 5000 mg/L Oncorhynchus mykiss 96 h | No information available | 1000: 48 h Daphnia magna mg/L EC50 | N/A |
| Residual oils (petroleum), solvent refined (<3% DMSO extractable) | No information available. | LC50 > 5000 mg/L Oncorhynchus mykiss 96 h | No information available | 1000: 48 h Daphnia magna mg/L EC50 | N/A |
| Residual oils (petroleum), solvent dewaxed (<3% DMSO extractable) | No information available. | LC50 > 5000 mg/L Oncorhynchus mykiss 96 h | No information available | 1000: 48 h Daphnia magna mg/L EC50 | N/A |
| NAFTA AROMATICA | No information available. | LC50 = 19 mg/L Pimephales promelas 96 h LC50 = 2.34 mg/L Oncorhynchus mykiss 96 h LC50 = 1740 mg/L Lepomis macrochirus 96 h LC50 = 45 mg/L Pimephales | No information available | 0.95: 48 h Daphnia magna mg/L EC50 | 6.1 |

| | | | | | |
|---|--|--|--|--|------|
| | | promelas 96 h LC50 = 41 mg/L Pimephales promelas 96 h | | | |
| Zinc alkyl dithiophosphate | No information available. | LC50 1.0 - 5.0 mg/L Pimephales promelas 96 h LC50 10.0 - 35.0 mg/L Pimephales promelas 96 h | No information available | 1 - 1.5: 48 h Daphnia magna mg/L EC50 | N/A |
| Petroleum distillates, hydrotreated heavy paraffinic (<3% DMSO extractable) | No information available. | LC50 > 5000 mg/L Oncorhynchus mykiss 96 h | No information available | 1000: 48 h Daphnia magna mg/L EC50 | N/A |
| 2,6-Di-tert-butylphenol | No information available. | No information available. | No information available | 0.45: 48 h Daphnia magna mg/L EC50 | N/A |
| Naphthalene | No information available. | LC50 5.74 - 6.44 mg/L Pimephales promelas 96 h LC50 = 1.6 mg/L Oncorhynchus mykiss 96 h LC50 0.91 - 2.82 mg/L Oncorhynchus mykiss 96 h LC50 = 1.99 mg/L Pimephales promelas 96 h LC50 = 31.0265 mg/L Lepomis macrochirus 96 h | EC50 = 0.93 mg/L 30 min EC50 > 20 mg/L 18 h | 2.16: 48 h Daphnia magna mg/L LC50 1.96: 48 h Daphnia magna mg/L EC50 Flow through 1.09 - 3.4: 48 h Daphnia magna mg/L EC50 Static | 3.3 |
| Cumene | EC50 = 2.6 mg/L Pseudokirchneriella subcapitata 72 h | LC50 6.04 - 6.61 mg/L Pimephales promelas 96 h LC50 = 4.8 mg/L Oncorhynchus mykiss 96 h LC50 = 2.7 mg/L Oncorhynchus mykiss 96 h LC50 = 5.1 mg/L Poecilia reticulata 96 h | EC50 = 0.89 mg/L 5 min EC50 = 1.10 mg/L 15 min EC50 = 1.48 mg/L 30 min EC50 = 172 mg/L 24 h | 0.6: 48 h Daphnia magna mg/L EC50 7.9 - 14.1: 48 h Daphnia magna mg/L EC50 Static | 3.55 |
| 1,3,5-Trimethylbenzene | No information available. | LC50 = 3.48 mg/L Pimephales promelas 96 h LC50 = 7.72 mg/L Pimephales promelas 96 h | No information available | No information available. | N/A |

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of contents/container in accordance with local regulation.

Container Disposal

Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

Inventories**TSCA**

Complies

DSL

Complies

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Component | CAS No. | Weight % * | SARA 313 - Threshold Values |
|----------------------------|------------|------------|-----------------------------|
| Zinc alkyl dithiophosphate | 68649-42-3 | 1-5 | 1.0 |
| Naphthalene | 91-20-3 | 0.1-1 | 0.1 |

| | | | | |
|--|---------------------------------|--------------------|--|------------------------|
| Cumene | | 98-82-8 | 0.1-1 | 1.0 |
| SARA 311/312 Hazardous Categorization | | | | |
| Acute Health Hazard | Chronic Health Hazard | Fire Hazard | Sudden Release of Pressure Hazard | Reactive Hazard |
| Yes | Yes | No | No | No |
| CERCLA | | | | |
| Component | Hazardous Substances RQs | | CERCLA EHS RQs | |
| Naphthalene | 100 lb 1 lb | | Not applicable | |
| Cumene | 5000 lb | | Not applicable | |

16. OTHER INFORMATION

Prepared By Adrienne McKee
Supersedes Date 07/26/2012
Issuing Date 10/30/2015
Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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