

## Safety Data Sheet (SDS)

Printing date 10/30/2015

Reviewed on 10/30/2015

### 1 Identification

- **Product identifier**
- **Trade name:** PowerSolv
- **Article number:** 4214; 4214-1; 4214-55; 42147
- **CAS Number:**  
64742-47-8
- **Recommended use and restriction on use**
- **Recommended use:** Industrial uses.
- **Restrictions on use:** See Sections 8 and 10 for further information.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Rainbow Technology Corp  
261 Cahaba Valley Pkwy  
Pelham, AL 35124  
  
Toll Free: 1.800.637.6047  
Local: 1.205.733.0333
- **Emergency telephone number:**  
ChemTel Inc.  
+1 (800)255-3924, +1 (813)248-0585

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Flam. Liq. 4 H227 Combustible liquid.

- **Additional information:**

There are no other hazards not otherwise classified that have been identified.

0 % of the mixture consists of component(s) of unknown toxicity.

- **Label elements**

- **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS08

- **Signal word:** Danger

- **Hazard-determining components of labeling:**

Aliphatic Hydrocarbon

- **Hazard statements:**

H227 Combustible liquid.

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H304 May be fatal if swallowed and enters airways.

· **Precautionary statements:**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system**

· **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 2

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	2	Fire = 2
REACTIVITY	0	Reactivity = 0

### 3 Composition/information on ingredients

· **Chemical characterization: Substances**

· **CAS No. Description**

64742-47-8 Aliphatic Hydrocarbon

· **Additional information:**

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This product meets these requirements.

### 4 First-aid measures

· **Description of first aid measures**

· **General information:**

Take affected persons out into the fresh air.

Immediately remove any clothing soiled by the product.

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation is experienced, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; immediately call for medical help.  
A person vomiting while lying on their back should be turned on their side.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed:**  
Headache  
Breathing difficulty  
Thirst  
Slight irritant effect on skin and mucous membranes.  
Slight irritant effect on eyes.  
Nausea in case of ingestion.  
Gastric or intestinal disorders when ingested.  
Vomiting.  
Diarrhea.
- **Danger:**  
Danger of impaired breathing.  
May be fatal if swallowed and enters airways.
- **Indication of any immediate medical attention and special treatment needed:**  
If necessary oxygen respiration treatment.  
Later observation for pneumonia and pulmonary edema.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Water fog / haze  
Foam  
Carbon dioxide  
Gaseous extinguishing agents  
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:**  
Water stream.  
Water spray
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information:**  
Eliminate all ignition sources if safe to do so.  
Cool endangered receptacles with water fog.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**  
Ensure adequate ventilation.

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Particular danger of slipping on leaked/spilled product.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Protect from heat

Keep away from ignition sources.

· **Environmental precautions:**

Avoid release to the environment.

Prevent from spreading (e.g. by damming-in or oil barriers).

Do not allow to penetrate the ground/soil.

· **Methods and material for containment and cleaning up:**

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).

Remove from the water surface (e.g. skim or suck off).

Dispose of the collected material according to regulations.

Send for recovery or disposal in suitable receptacles.

· **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

· **Handling**

· **Precautions for safe handling:**

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

The product forms flammable fumes when heated.

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

· **Storage**

· **Requirements to be met by storerooms and receptacles:**

Avoid storage near extreme heat, ignition sources or open flame.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidizing agents.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Keep containers tightly sealed.

· **Specific end use(s):** No relevant information available.

## 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

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- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

<b>64742-47-8 Aliphatic Hydrocarbon</b>	
EL (Canada)	Long-term value: 200 mg/m <sup>3</sup> Skin

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

- **Engineering controls:** No relevant information available.

- **Breathing equipment:**

Not required under normal conditions of use.

Use suitable respiratory protective device when aerosol or mist is formed.

Use suitable respiratory protective device in case of insufficient ventilation.

For large spills, respiratory protection may be advisable.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Eye protection:**



Safety glasses

- **Body protection:**

Not required under normal conditions of use.

Protection may be required for spills.

- **Limitation and supervision of exposure into the environment** Avoid release to the environment.

- **Risk management measures** See Section 7 for additional information.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General information**

- **Appearance:**

Form: Liquid

Color: Clear, colorless

- **Odor:** Orange

- **Odor threshold:** Not determined.

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· <b>pH-value:</b>	Not determined.
· <b>Change in condition:</b>	
<b>Melting point/Melting range:</b>	Not determined.
<b>Boiling point/Boiling range:</b>	360-428 °C (680-802 °F)
· <b>Flash point:</b>	62 °C (144 °F)
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Not determined.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Oxidizing properties:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density:</b>	0.78
· <b>Relative density:</b>	Not determined.
· <b>Vapor density:</b>	Not determined.
· <b>Evaporation rate:</b>	0.06 (butyl acetate = 1)
· <b>Solubility in / Miscibility with:</b>	
<b>Water:</b>	<1 %
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Other information</b>	No relevant information available.

## 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions:**  
Reacts with strong oxidizing agents.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
- **Conditions to avoid:**  
Excessive heat.  
Store away from oxidizing agents.
- **Incompatible materials:** Oxidizing agents

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· **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

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## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

### 64742-47-8 Aliphatic Hydrocarbon

Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

- **Primary irritant effect:**
- **On the skin:** Slight irritant effect on skin and mucous membranes.
- **On the eye:** Slight irritant effect on eyes.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

Substance is not listed.

· **NTP (National Toxicology Program):**

Substance is not listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

Substance is not listed.

· **Probable route(s) of exposure:**

Ingestion.  
Inhalation.  
Eye contact.  
Skin contact.

- **Repeated dose toxicity:** Possible risk of irreversible effects.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Contains suspect carcinogen in less than reportable quantities.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** May be fatal if swallowed and enters airways.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No relevant information available.
- **Persistence and degradability:** The product is partially biodegradable. Significant residuals remain.
- **Behavior in environmental systems**
- **Bioaccumulative potential:** No relevant information available.

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- **Mobility in soil:** No relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Due to mechanical actions of the product (e.g. agglutinations), damages may occur.
- **Additional ecological information**
- **General notes:**  
Avoid release to the environment.  
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **Other adverse effects:** No relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Product is recyclable as a waste oil. Deliver unused and/or contaminated product to waste oil collectors. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT</b></li> </ul>   | <p>Not regulated.<br/>Classified as combustible under US DOT regulations. Labeling required for single packages <math>\geq 119</math> US gal / 450 L to include Combustible symbol and Proper Shipping Name.</p> |
| <ul style="list-style-type: none"> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | <p>Not regulated.</p>  |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>                            | <p>Not regulated.</p>  |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul> | <p>Not regulated.</p>  |
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>                                      | <p>Not regulated.</p>  |
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards</b></li> </ul>   | <p>Not applicable.</p>   |
| <ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> </ul>  | <p>Not applicable.</p>   |
| <ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>                   | <p>Not applicable.</p>   |

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· <b>UN "Model Regulation"</b>	Not regulated.
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## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· <b>Section 302 (extremely hazardous substances):</b>
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Substance is not listed.
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· <b>Section 304 (emergency release notification):</b>
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Substance is not listed.
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· <b>Sections 311/312 (hazardous chemical threshold planning quantity in pounds):</b>
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Substance is not listed.
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· <b>Section 355 (extremely hazardous substances):</b>
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Substance is not listed.
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· <b>Section 313 (Specific toxic chemical listings):</b>
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Substance is not listed.
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· <b>TSCA (Toxic Substances Control Act)</b>
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Substance is listed.
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· <b>Proposition 65 (California)</b>
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· <b>Chemicals known to cause cancer:</b>
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Substance is not listed.
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· <b>Chemicals known to cause reproductive toxicity for females:</b>
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Substance is not listed.
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· <b>Chemicals known to cause reproductive toxicity for males:</b>
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Substance is not listed.
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· <b>Chemicals known to cause developmental toxicity:</b>
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Substance is not listed.
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· <b>Carcinogenic categories</b>
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· <b>EPA (Environmental Protection Agency):</b>
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Substance is not listed.
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· <b>IARC (International Agency for Research on Cancer):</b>
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Substance is not listed.
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· <b>TLV (Threshold Limit Value established by ACGIH):</b>
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Substance is not listed.
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· <b>NIOSH-Ca (National Institute for Occupational Safety and Health):</b>
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Substance is not listed.
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- **Canadian substance listings**

<b>· Canadian Domestic Substances List (DSL):</b>
Substance is listed.

<b>· Canadian Ingredient Disclosure list (limit 0.1%):</b>
Substance is not listed.

<b>· Canadian Ingredient Disclosure list (limit 1%):</b>
Substance is not listed.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 10/30/2015 / -

- **Abbreviations and acronyms:**

Flam. Liq. 4: Flammable liquids, Hazard Category 4

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

- **Sources**

Website, European Chemicals Agency ([http://http://echa.europa.eu/](http://echa.europa.eu/))

Website, US EPA Substance Registry Services ([http://http://ofmpub.epa.gov/sor\\_internet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sor_internet/registry/substreg/home/overview/home.do))

Website, Chemical Abstracts Registry, American Chemical Society (<https://www.cas.org>)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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