

## Safety Data Sheet acc. to OSHA HCS

Printing date 05/23/2022

Reviewed on 11/04/2021

### 1 Identification

**: Product identifier**

**: Trade name:** Unisol® Liquid Red BHF

**: Application of the substance / the mixture** Colorant agent - fuel additive

**: Details of the supplier of the safety data sheet**

**: Manufacturer/Supplier:**

United Color Manufacturing, Inc.  
660 Newtown-Yardley Road  
Newtown, PA 18940 USA

**: For more information**

Website: [www.unitedcolor.com](http://www.unitedcolor.com)  
U.S. (215) 860-2165 / 800-852-5942  
**: Telephone:** U.S. (215) 860-2165 / 800-852-5942

**: Emergency telephone number:**

Within Continental U.S., CHEMTREC 1-800-424-9300  
Outside U.S., CHEMTREC 001-703-527-3887  
Within Continental U.S., CHEMTREC 1-800-424-9300; Outside U.S., CHEMTREC 1-703-527-3887

### 2 Hazard(s) identification

**: Classification of the substance or mixture**



Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

**: Label elements**

**: GHS label elements**

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

**: Hazard pictograms**



**: Signal word** Warning

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

2-Naphthalenol, 1-[2-[4-(2-phenyldiazenyl)phenyl]diazenyl]-, ar-heptyl ar',ar"-Me derivs.

**: Hazard statements**

H361 Suspected of damaging fertility or the unborn child.

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

**: Precautionary statements**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P314 Get medical advice/attention if you feel unwell.

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- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**: Additional information:**

35-45% of the mixture consists of ingredients of unknown toxicity and ecotoxicity.  
40 % of the mixture consists of component(s) of unknown toxicity.

**: Classification system:**

**: NFPA ratings (scale 0 - 4)**



Health = 1  
Fire = 1  
Reactivity = 0

**: HMIS-ratings (scale 0 - 4)**



HEALTH 1 Health = 1  
FIRE 1 Fire = 1  
REACTIVITY 0 Reactivity = 0

**: Other hazards**

**: Results of PBT and vPvB assessment**

- : **PBT:** Not applicable.
- : **vPvB:** Not applicable.

### 3 Composition/information on ingredients

**: Chemical characterization: Mixtures**

**: Description:** Mixture of the substances listed below with nonhazardous additions.

**: Dangerous components:**

64742-53-6	Distillates (petroleum), hydrotreated light naphthenic	45-60%
92257-31-3	2-Naphthalenol, 1-[2-[4-(2-phenyldiazenyl)phenyl]diazenyl]-, ar-heptyl ar',ar''-Me derivs.	30-40%

**: Additional information:**

The classification as a carcinogen need not to apply because the hydrotreated light naphthenic distillates solvent present, contains less than 3 % DMSO extract as measured by IP 346 (Dir. 2001/59/EC)

### 4 First-aid measures

**: Description of first aid measures**

**: General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**: After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

**: After skin contact:**

Immediately rinse with water.

Immediately wash with water and soap and rinse thoroughly.

**: After eye contact:** Rinse opened eye for several minutes under running water.

**: After swallowing:** If symptoms persist consult doctor.

**: Information for doctor:**

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

No further relevant information available.

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: **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**5 Fire-fighting measures**

- : **Extinguishing media**
- : **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- : **Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- : **Advice for firefighters**
- : **Protective equipment:** Mouth respiratory protective device.

**6 Accidental release measures**

- : **Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.
- : **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- : **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- : **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.
- : **Protective Action Criteria for Chemicals**

: **PAC-1:**

None of the ingredients is listed.

: **PAC-2:**

None of the ingredients is listed.

: **PAC-3:**

None of the ingredients is listed.

**7 Handling and storage**

- : **Handling:**
- : **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- : **Information about protection against explosions and fires:** Keep respiratory protective device available.
- : **Conditions for safe storage, including any incompatibilities**
- : **Storage:**
- : **Requirements to be met by storerooms and receptacles:** No special requirements.
- : **Information about storage in one common storage facility:** Not required.
- : **Further information about storage conditions:** Keep receptacle tightly sealed.
- : **Specific end use(s)** No further relevant information available.

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**8 Exposure controls/personal protection**

- : **Additional information about design of technical systems:** No further data; see item 7.
- : **Control parameters**
- : **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- : **Additional information:** The lists that were valid during the creation were used as basis.
- : **Exposure controls**
- : **Personal protective equipment:**
- : **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.
- : **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- : **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

: **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

: **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

: **Eye protection:**



Tightly sealed goggles

**\* 9 Physical and chemical properties**

- : **Information on basic physical and chemical properties**
- : **General Information**
- : **Appearance:**
- : **Form:** Fluid

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: <b>Color:</b>	Dark red
: <b>Odor:</b>	Characteristic
: <b>Odor threshold:</b>	Not determined.
: <b>pH-value:</b>	Not determined.
: <b>Change in condition</b>	
: <b>Melting point/Melting range:</b>	Undetermined.
: <b>Boiling point/Boiling range:</b>	230 °C (446 °F)
: <b>Flash point:</b>	>100 °C (>212 °F)
: <b>Flammability (solid, gaseous):</b>	Not applicable.
: <b>Decomposition temperature:</b>	Not determined.
: <b>Auto igniting:</b>	Product is not selfigniting.
: <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>Vapor pressure at 20 °C (68 °F):</b>	0.011 hPa (0.008 mm Hg)
: <b>Density at 20 °C (68 °F):</b>	0.95 g/cm <sup>3</sup> (7.92775 lbs/gal)
: <b>Relative density</b>	Not determined.
: <b>Vapor density</b>	Not determined.
: <b>Evaporation rate</b>	Not determined.
: <b>Solubility in / Miscibility with</b>	
: <b>Water:</b>	Not miscible or difficult to mix.
: <b>Partition coefficient (n-octanol/water):</b>	Not determined.
: <b>Viscosity:</b>	
: <b>Dynamic:</b>	Not determined.
: <b>Kinematic at 40 °C (104 °F):</b>	100 mm <sup>2</sup> /s
: <b>Solvent content:</b>	
: <b>Organic solvents:</b>	60.0 %
: <b>VOC content:</b>	60.00 % (EPA Method 24) 570.0 g/l / 4.76 lb/gal
: <b>Solids content:</b>	40.0 %
: <b>Other information</b>	No further relevant information available.

**10 Stability and reactivity**

- : **Reactivity** No further relevant information available.
- : **Chemical stability**
- : **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- : **Possibility of hazardous reactions** No dangerous reactions known.
- : **Conditions to avoid** No further relevant information available.
- : **Incompatible materials:** No further relevant information available.

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: **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

: **Information on toxicological effects**

: **Acute toxicity:**

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

**64742-53-6 Distillates (petroleum), hydrotreated light naphthenic**

Oral	LD50	>5,000 mg/kg (rat)
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Dermal	LD50	>2,000 mg/kg (rabbit)
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**92257-31-3 2-Naphthalenol, 1-[2-[4-(2-phenyldiazenyl)phenyl]diazenyl]-, ar-heptyl ar',ar''-Me derivs.**

Oral	LD50	>5,000 mg/kg (rat)
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: **Primary irritant effect:**

: **on the skin:** No irritant effect.

: **on the eye:** No irritating effect.

: **Sensitization:** No sensitizing effects known.

: **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

: **Carcinogenic Status:**

Contains an o-Toluidine-based azo dye. Metabolic studies on some Azo-dyes, following prolonged skin or oral cavity contact, have detected reduction of azo bonds to aromatic amines. This product, therefore, could potentially metabolize to o-toluidine and o-aminoazotoluene upon prolonged skin or oral cavity contact. o-Toluidine and o-aminoazotoluene have been identified as animal carcinogens.

: **Reproductive effects:**

May affect reproductive system. Contains: a version of 2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-me derivatives. A reproductive screening study in rats with some versions of 2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-me derivatives produced adverse effects on reproduction [ovarian atrophy; reduced litter size; reduced pup weight with no apparent abnormal morphology of the surviving pups] at 20 and 80 mg/kg/day. The relevance of these findings for humans is uncertain, but may be predictive of the potential to cause harm.

: **Carcinogenic categories**

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

None of the ingredients is listed.

: **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

**12 Ecological information**

: **Toxicity**

: **Aquatic toxicity:** No further relevant information available.

: **Persistence and degradability** No further relevant information available.

: **Behavior in environmental systems:**

: **Bioaccumulative potential** No further relevant information available.

: **Mobility in soil** No further relevant information available.

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**: Additional ecological information:**

**: General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**: Results of PBT and vPvB assessment**

**: PBT:** Not applicable.

**: vPvB:** Not applicable.

**: Other adverse effects** No further relevant information available.

**13 Disposal considerations**

**: Waste treatment methods**

**: Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**: Uncleaned packagings:**

**: Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

<b>: UN-Number</b>	
<b>: DOT, ADN, IMDG, IATA</b>	Void
<b>: UN proper shipping name</b>	
<b>: DOT, ADN, IMDG, IATA</b>	Void
<b>: Transport hazard class(es)</b>	
<b>: DOT, IMDG, IATA</b>	
<b>: Class</b>	Void
<b>: Label</b>	NOTREGULATED
<b>: ADN/R Class:</b>	Void
<b>: Packing group</b>	
<b>: DOT, IMDG, IATA</b>	Void
<b>: Environmental hazards:</b>	
<b>: Marine pollutant:</b>	No
<b>: Special precautions for user</b>	Not applicable.
<b>: Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>: UN "Model Regulation":</b>	Void

**15 Regulatory information**

**: Safety, health and environmental regulations/legislation specific for the substance or mixture**

**: Sara**

**: Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

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<b>: Section 313 (Specific toxic chemical listings):</b>		
None of the ingredients is listed.		
<b>: Sara 311/312 Hazards</b>		
<b>Fire Hazard, Acute Health Hazard, Chronic Health Hazard</b>		
None of the ingredients is listed.		
<b>: CERCLA Hazardous Substances and Corresponding RQ's</b>		
None of the ingredients is listed.		
<b>: Clean Water Act</b>		
None of the ingredients is listed.		
<b>: Massachusetts Extraordinary Harardous Substances</b>		
None of the ingredients is listed.		
<b>: Sara Section 302 (Reportable Ingredients)</b>		
None of the ingredients is listed.		
<b>: SARA Section 304 (Reportable Ingredients)</b>		
None of the ingredients is listed.		
<b>: TSCA (Toxic Substances Control Act):</b> All ingredients have the value ACTIVE		
<b>: California Right to Know Law</b>		
None of the ingredients is listed.		
<b>: Massachusetts Right to Know Law</b>		
64742-53-6	Distillates (petroleum), hydrotreated light naphthenic	Yes
<b>: Minnesota Right to Know Law</b>		
None of the ingredients is listed.		
<b>: New Jersey Right to Know Law</b>		
64742-53-6	Distillates (petroleum), hydrotreated light naphthenic	
<b>: Pennsylvania Right to Know Law</b>		
None of the ingredients is listed.		
<b>: Rhode Isalnd Right to Know Law</b>		
None of the ingredients is listed.		
<b>: New Jersey Special Hazardous Substances</b>		
None of the ingredients is listed.		
<b>: Illinois Toxic Air Contaminants</b>		
None of the ingredients is listed.		
<b>: Pennsylvania Right to Know Special Hazardous Substances</b>		
None of the ingredients is listed.		
<b>: Hazardous Air Pollutants</b>		
None of the ingredients is listed.		
<b>: Proposition 65</b>		
<b>: Chemicals known to cause cancer:</b>		
None of the ingredients is listed.		

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<b>: Chemicals known to cause reproductive toxicity for females:</b>
None of the ingredients is listed.
<b>: Chemicals known to cause reproductive toxicity for males:</b>
None of the ingredients is listed.
<b>: Chemicals known to cause developmental toxicity:</b>
None of the ingredients is listed.
<b>: Pennsylvania Right to Know Environmental Hazard</b>
None of the ingredients is listed.
<b>: Carcinogenic categories</b>
<b>: EPA (Environmental Protection Agency)</b>
None of the ingredients is listed.
<b>: TLV (Threshold Limit Value)</b>
None of the ingredients is listed.
<b>: NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
None of the ingredients is listed.
<b>: Clean air act section 111 SOCMi intermediate or final VOC's (40 CFR 60.489)</b>
None of the ingredients is listed.

**: GHS label elements**

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

**: Hazard pictograms**



**: Signal word** Warning

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

2-Naphthalenol, 1-[2-[4-(2-phenyldiazenyl)phenyl]diazenyl]-, ar-heptyl ar',ar"-Me derivs.

**: Hazard statements**

H361 Suspected of damaging fertility or the unborn child.

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

**: Precautionary statements**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**: Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### 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.

: **Department issuing SDS:** Regulatory Affairs department.

: **Contact:**

Michael P. Hinton

Michael P. Hinton, PhD.

: **Date of preparation / last revision** 05/23/2022 / -

: **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Repr. 2: Reproductive toxicity – Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

: \* **Data compared to the previous version altered.**