

Safety Data Sheet acc. to OSHA HCS

Printing date 11/01/2021

Reviewed on 11/01/2021

1 Identification

: Product identifier

: Trade name: **Unisol® Liquid Red BK-50**

: Application of the substance / the mixture Dyestuff/Colorant

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

2 Hazard(s) identification

: Classification of the substance or mixture



Flame

Flammable liquid and vapor.



Health hazard

Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to the hearing organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.



Environment

Toxic to aquatic life with long lasting effects.



Causes skin irritation.
May cause respiratory irritation. May cause drowsiness or dizziness.

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Trade name: **Unisol® Liquid Red BK-50**

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: Label elements

: GHS label elements

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

: Hazard pictograms



: Signal word Danger

: Hazard-determining components of labeling:

xylene, mixture of isomers
2-Naphthalenol, 1-[2-[4-(2-phenyldiazenyl)phenyl]diazenyl]-, ar-heptyl ar',ar"-Me derivs.
ethylbenzene
Kerosene (petroleum)

: Hazard statements

H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
H373 May cause damage to the hearing organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

: Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P321 Specific treatment (see on this label).
P331 Do NOT induce vomiting.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a poison center/doctor if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P362+P364 Take off contaminated clothing and wash it before reuse.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.
P391 Collect spillage.

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P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 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.
 30.9 % of the mixture consists of component(s) of unknown toxicity.

: Classification system:

: NFPA ratings (scale 0 - 4)



Health = 2
 Fire = 3
 Reactivity = 0

: HMIS-ratings (scale 0 - 4)



Health = 2
 Fire = 3
 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:

92257-31-3	2-Naphthalenol, 1-[2-[4-(2-phenyldiazenyl)phenyl]diazanyl]-, ar-heptyl ar',ar''-Me derivs.	25-35%
8008-20-6	Kerosene (petroleum)	10-25%
1330-20-7	xylene, mixture of isomers	10-25%
64742-94-5	Solvent naphtha (petroleum), heavy arom.	5-20%
100-41-4	ethylbenzene	2.5-10%

4 First-aid measures

: Description of first aid measures

: General information:

Immediately remove any clothing soiled by the product.
 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 wash with water and soap and rinse thoroughly.

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

: After swallowing: Immediately call a doctor.

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- : **Information for doctor:**
- : **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- : **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- : **Extinguishing media**
- : **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- : **For safety reasons unsuitable extinguishing agents:** Water with full jet
- : **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.
Wear protective equipment. Keep unprotected persons away.
- : **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
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:**

1330-20-7	xylene, mixture of isomers	130 ppm
100-41-4	ethylbenzene	33 ppm
91-20-3	Naphthalene	15 ppm
108-88-3	toluene	67 ppm
71-43-2	benzene	52 ppm

: **PAC-2:**

1330-20-7	xylene, mixture of isomers	920* ppm
100-41-4	ethylbenzene	1100* ppm
91-20-3	Naphthalene	83 ppm
108-88-3	toluene	560 ppm
71-43-2	benzene	800 ppm

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: PAC-3:		
1330-20-7	xylene, mixture of isomers	2500* ppm
100-41-4	ethylbenzene	1800* ppm
91-20-3	Naphthalene	500 ppm
108-88-3	toluene	3700* ppm
71-43-2	benzene	4000* ppm

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 ignition sources away - Do not smoke.
Protect against electrostatic charges.
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.

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 following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

8008-20-6 Kerosene (petroleum)	
REL	Long-term value: 100 mg/m ³ Kerosene only
TLV	Long-term value: 200 mg/m ³ as total hydrocarbon vapor; Skin; A3
1330-20-7 xylene, mixture of isomers	
PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: (150) ppm Long-term value: (100) NIC-20 ppm BEI, A4

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100-41-4 ethylbenzene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 20 NIC-20 ppm BEI, A3, NIC: OTO, BEI, A3
: Ingredients with biological limit values:	
1330-20-7 xylene, mixture of isomers	
BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
100-41-4 ethylbenzene	
BEI	0.15 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

: 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.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the skin.
- Avoid contact with the eyes and skin.

: 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.

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: 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
: Color:	Red
: Odor:	Aromatic
: Odor threshold:	Not determined.
: pH-value:	Not determined.
: Change in condition	
: Melting point/Melting range:	Undetermined.
: Boiling point/Boiling range:	137 °C (278.6 °F)
: Flash point:	>35 °C (>95 °F)
: Flammability (solid, gaseous):	Not applicable.
: Ignition temperature:	254 °C (489.2 °F)
: Decomposition temperature:	Not determined.
: Auto igniting:	Product is not selfigniting.
: Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
: Explosion limits:	
: Lower:	1.1 Vol %
: Upper:	7 Vol %
: Vapor pressure at 20 °C (68 °F):	6.1 hPa (4.6 mm Hg) (ASTM D5191)
: Density:	
: Relative density	Not determined.
: Vapor density	Not determined.
: Evaporation rate	Not determined.
: Solubility in / Miscibility with	
: Water:	Not miscible or difficult to mix.
: Partition coefficient (n-octanol/water): Not determined.	
: Viscosity:	
: Dynamic:	Not determined.

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: Kinematic:	Not determined.
: Solvent content:	
: Organic solvents:	69.1 %
: VOC content:	69.13 % (EPA Method 24) 691.3 g/l / 5.77 lb/gal
: Solids content:	30.9 %
: Other information	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.
- : **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:		
ATE (Acute Toxicity Estimate)		
Dermal	LD50	8,126 mg/kg (rabbit)
Inhalative	LC50/4 h	33.7 mg/l
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)
8008-20-6 Kerosene (petroleum)		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>5,000 mg/l (rat)
1330-20-7 xylene, mixture of isomers		
Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)
64742-94-5 Solvent naphtha (petroleum), heavy arom.		
Oral	LD50	>5,000 mg/kg (rat) (OECD Guideline 401)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD Guideline 402)
Inhalative	LC50/4 h	4,778 mg/l (rat) (OECD Guideline 403)
100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)

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Inhalative	LC50/4 h	11 mg/l (ATE)
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: Primary irritant effect:

: **on the skin:** Irritant to skin and mucous membranes.

: **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:

Irritant

: 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)

8008-20-6	Kerosene (petroleum)	2B
1330-20-7	xylene, mixture of isomers	3
100-41-4	ethylbenzene	2B
91-20-3	Naphthalene	2B
108-88-3	toluene	3
71-43-2	benzene	1

: NTP (National Toxicology Program)

91-20-3	Naphthalene	R
71-43-2	benzene	K

: OSHA-Ca (Occupational Safety & Health Administration)

71-43-2	benzene
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12 Ecological information

: Toxicity

: Aquatic toxicity:

8008-20-6 Kerosene (petroleum)

EC50	10-100 mg/kg (Algae)
	10-100 mg/kg (daphnia)
	10-100 mg/kg (fish)

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64742-94-5 Solvent naphtha (petroleum), heavy arom.		
Oral	LC50 aquatic	3.6 mg/l (Oncorhynchus mykiss)
	EC50	3.6 mg/kg (Oncorhynchus mykiss) (96 hr)
100-41-4 ethylbenzene		
	EC50	3.6 mg/kg (Algae) 1.81 mg/kg (daphnia) 4.2 mg/kg (fish)

- : **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.
- : **Ecotoxicological effects:**
 - : **Remark:** Toxic for fish
- : **Additional ecological information:**
 - : **General notes:**
 - Water hazard class 2 (Self-assessment): hazardous for water
 - Do not allow product to reach ground water, water course or sewage system.
 - Danger to drinking water if even small quantities leak into the ground.
 - Also poisonous for fish and plankton in water bodies.
 - Toxic for aquatic organisms
- : **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

: UN-Number	
: DOT, IMDG, IATA	UN1993
: UN proper shipping name	
: DOT	Flammable liquids, n.o.s. (Kerosene (petroleum), Xylenes)
: IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Kerosene (petroleum), XYLENES)

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: Transport hazard class(es)	
: DOT	
	
: Class	3 Flammable liquids
: Label	3

: IMDG, IATA	
	
: Class	3 Flammable liquids
: Label	3
: Packing group	III
: DOT, IMDG, IATA	III
: Environmental hazards:	Product contains environmentally hazardous substances: Naphthalene
: Marine pollutant:	No
: Special precautions for user	Warning: Flammable liquids
: Hazard identification number (Kemler code):	30
: EMS Number:	F-E, <u>S</u> -E
: Stowage Category	A
: Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
: Transport/Additional information:	
: DOT	
: Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L

: IMDG	
: Limited quantities (LQ)	5L
: Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
: UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (KEROSENE (PETROLEUM), XYLENES), 3, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

: **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

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: Sara

: Section 355 (extremely hazardous substances):		
None of the ingredients is listed.		
: Section 313 (Specific toxic chemical listings):		
1330-20-7	xylene, mixture of isomers	
100-41-4	ethylbenzene	
: Sara 311/312 Hazards		
Fire Hazard, Acute Health Hazard, Chronic Health Hazard		
None of the ingredients is listed.		
: CERCLA Hazardous Substances and Corresponding RQ's		
1330-20-7	xylene, mixture of isomers	100 lbs or 45.4 kgs
100-41-4	ethylbenzene	1000 lbs or 454 kgs
: Clean Water Act		
None of the ingredients is listed.		
: Massachusetts Extraordinary Harardous Substances		
None of the ingredients is listed.		
: Sara Section 302 (Reportable Ingredients)		
None of the ingredients is listed.		
: SARA Section 304 (Reportable Ingredients)		
None of the ingredients is listed.		
: TSCA (Toxic Substances Control Act):		
All components have the value ACTIVE.		
: California Right to Know Law		
1330-20-7	xylene, mixture of isomers	Yes
100-41-4	ethylbenzene	Yes
: Massachusetts Right to Know Law		
1330-20-7	xylene, mixture of isomers	Yes
100-41-4	ethylbenzene	Yes
: Minnesota Right to Know Law		
1330-20-7	xylene, mixture of isomers	Yes
100-41-4	ethylbenzene	Yes
: New Jersey Right to Know Law		
1330-20-7	xylene, mixture of isomers	
100-41-4	ethylbenzene	
: Pennsylvania Right to Know Law		
1330-20-7	xylene, mixture of isomers	Yes
64742-94-5	Solvent naphtha (petroleum), heavy arom.	Yes
100-41-4	ethylbenzene	Yes
: Rhode Isalnd Right to Know Law		
1330-20-7	xylene, mixture of isomers	Yes

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100-41-4	ethylbenzene	Yes
: New Jersey Special Hazardous Substances		
None of the ingredients is listed.		
: Illinois Toxic Air Contaminants		
None of the ingredients is listed.		
: Pennsylvania Right to Know Special Hazardous Substances		
None of the ingredients is listed.		
: Hazardous Air Pollutants		
1330-20-7	xylene, mixture of isomers	
100-41-4	ethylbenzene	
91-20-3	Naphthalene	
108-88-3	toluene	
71-43-2	benzene	
: Proposition 65		
: Chemicals known to cause cancer:		
100-41-4	ethylbenzene	
91-20-3	Naphthalene	
71-43-2	benzene	
: Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
: Chemicals known to cause reproductive toxicity for males:		
71-43-2	benzene	
: Chemicals known to cause developmental toxicity:		
108-88-3	toluene	
71-43-2	benzene	
: Pennsylvania Right to Know Environmental Hazard		
None of the ingredients is listed.		
: Carcinogenic categories		
: EPA (Environmental Protection Agency)		
1330-20-7	xylene, mixture of isomers	I
100-41-4	ethylbenzene	D
91-20-3	Naphthalene	C, CBD
108-88-3	toluene	II
71-43-2	benzene	A, K/L
: TLV (Threshold Limit Value)		
8008-20-6	Kerosene (petroleum)	A3
1330-20-7	xylene, mixture of isomers	A4
100-41-4	ethylbenzene	A3
91-20-3	Naphthalene	A4

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108-88-3	toluene	A4
71-43-2	benzene	A1

: NIOSH-Ca (National Institute for Occupational Safety and Health)		
71-43-2	benzene	

: Clean air act section 111 SOCMi intermediate or final VOC's (40 CFR 60.489)		
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 Danger

: Hazard-determining components of labeling:

xylene, mixture of isomers
2-Naphthalenol, 1-[2-[4-(2-phenyldiazenyl)phenyl]diazenyl]-, ar-heptyl ar',ar''-Me derivs.
ethylbenzene
Kerosene (petroleum)

: Hazard statements

- H226 Flammable liquid and vapor.
- H315 Causes skin irritation.
- H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
- H373 May cause damage to the hearing organs through prolonged or repeated exposure.
- H304 May be fatal if swallowed and enters airways.
- H411 Toxic to aquatic life with long lasting effects.

: Precautionary statements

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P321 Specific treatment (see on this label).
- P331 Do NOT induce vomiting.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.

(Contd. on page 15)

Safety Data Sheet acc. to OSHA HCS

Printing date 11/01/2021

Reviewed on 11/01/2021

Trade name: **Unisol® Liquid Red BK-50**

(Contd. of page 14)

P312	Call a poison center/doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P370+P378	In case of fire: Use CO ₂ , powder or water spray to extinguish.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
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.

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** 11/01/2021 / -

: **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

BEL: Biological Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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