

1 Identification

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party: Tec-Guard, 2929 5th Avenue
Rock Island, IL 61201

Telephone number: 1-309-788-5631

E-mail address: info@tec-guard.com

Emergency phone number: Chemtrec: (800) 424-9300

Product identifier used on the label: Tec-Guard Chemical RED Dye

Stock Number: 4861535

Other means of identification:

Synonyms: None

Recommended use of the chemical and restrictions on use:

Application: Coloring Agent

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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(Contd. of page 1)

- 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.

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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: Color:	Dark red
: Odor:	Characteristic
: Odor threshold:	Not determined.
: pH-value:	Not determined.
: Change in condition	
: Melting point/Melting range:	Undetermined.
: Boiling point/Boiling range:	230 °C (446 °F)
: Flash point:	>100 °C (>212 °F)
: Flammability (solid, gaseous):	Not applicable.
: Decomposition temperature:	Not determined.
: Auto igniting:	Product is not selfigniting.
: Danger of explosion:	Product does not present an explosion hazard.
: Explosion limits:	
: Lower:	Not determined.
: Upper:	Not determined.
: Vapor pressure at 20 °C (68 °F):	0.011 hPa (0.008 mm Hg)
: Density at 20 °C (68 °F):	0.95 g/cm ³ (7.92775 lbs/gal)
: 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.
: Kinematic at 40 °C (104 °F):	100 mm ² /s
: Solvent content:	
: Organic solvents:	60.0 %
: VOC content:	60.00 % (EPA Method 24) 570.0 g/l / 4.76 lb/gal
: Solids content:	40.0 %
: 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.

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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

: UN-Number	
: DOT, ADN, IMDG, IATA	Void
: UN proper shipping name	
: DOT, ADN, IMDG, IATA	Void
: Transport hazard class(es)	
: DOT, IMDG, IATA	
: Class	Void
: Label	NOTREGULATED
: ADN/R Class:	Void
: Packing group	
: DOT, IMDG, IATA	Void
: Environmental hazards:	
: Marine pollutant:	No
: Special precautions for user	Not applicable.
: Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
: UN "Model Regulation":	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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: Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
: 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	
None of the ingredients is listed.	
: 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 ingredients have the value ACTIVE	
: California Right to Know Law	
None of the ingredients is listed.	
: Massachusetts Right to Know Law	
64742-53-6	Distillates (petroleum), hydrotreated light naphthenic Yes
: Minnesota Right to Know Law	
None of the ingredients is listed.	
: New Jersey Right to Know Law	
64742-53-6	Distillates (petroleum), hydrotreated light naphthenic
: Pennsylvania Right to Know Law	
None of the ingredients is listed.	
: Rhode Isalnd Right to Know Law	
None of the ingredients is listed.	
: 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	
None of the ingredients is listed.	
: Proposition 65	
: Chemicals known to cause cancer:	
None of the ingredients is listed.	

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: Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

: Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

: Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

: Pennsylvania Right to Know Environmental Hazard

None of the ingredients is listed.

: Carcinogenic categories**: EPA (Environmental Protection Agency)**

None of the ingredients is listed.

: TLV (Threshold Limit Value)

None of the ingredients is listed.

: NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

: 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** 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.

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: 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.**