



BLUE DYE

Safety Data Sheet

Issue date: 8/10/2020 Revision date: 06/22/2026 Version: 1.1

* 1 Identification

Product identifier used on the label: Tec-Guard Chemical Blue Dye
Stock Number: 4861536

Other means of identification:

Synonyms: None

Recommended use of the chemical and restrictions on use:

Application: Coloring Agent

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party: Tec-Guard. 400 S. 14th Ave
Eldridge, IA 52748

Telephone number: (800) 522-1150

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

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

* 2 Hazard(s) identification

: Classification of the substance or mixture

.3, Health hazard

May be fatal if swallowed and enters airways.

1, Environment

Toxic to aquatic life with long lasting effects.

: Label elements

: GHS label elements

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

: Hazard pictograms

.3, 1,

: Signal word Danger

: Hazard-determining components of labeling:

Solvent naphtha (petroleum), heavy arom.

: Hazard statements

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

: Precautionary statements

P273 Avoid release to the environment.

P301+P310 If swallowed: Immediately call a poison center/doctor.

P331 Do NOT induce vomiting.

- P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

: Additional information:

45 % 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
Fire = 1
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:

64742-94-5	Solvent naphtha (petroleum), heavy arom.	45-60%
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4 First-aid measures

: Description of first aid measures

- : **After inhalation:** Supply fresh air; consult doctor in case of complaints.
: **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.
: **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:** Use fire fighting measures that suit the environment.
: **Special hazards arising from the substance or mixture** No further relevant information available.
: **Advice for firefighters**
: **Protective equipment:** No special measures required.

(Contd. on page 3)

*** 6 Accidental release measures**

- : **Personal precautions, protective equipment and emergency procedures** Not required.
- : **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.
- : **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** No special precautions are necessary if used correctly.
 - : **Information about protection against explosions and fires:** No special measures required.
- : **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.

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: **Breathing equipment:** Not required.

: **Protection of hands:**

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:** Goggles recommended during refilling.

* 9 Physical and chemical properties

: Information on basic physical and chemical properties	
: General Information	
: Appearance:	
: Form:	Liquid
: Color:	Blue
: Odor:	Aromatic
: Odor threshold:	Not determined.
: pH-value:	Not determined.
: Change in condition	
: Melting point/Melting range:	Undetermined.
: Boiling point/Boiling range:	Undetermined.
: Flash point:	>100 °C (>212 °F)
: Flammability (solid, gaseous):	Not applicable.
: Ignition temperature:	430 °C (806 °F)
: Decomposition temperature:	Not determined.
: Auto igniting:	Product is not selfigniting.
: Danger of explosion:	Product does not present an explosion hazard.
: Explosion limits:	
: Lower:	1 Vol %
: Upper:	7.8 Vol %
: Vapor pressure at 20 °C (68 °F):	9.5 hPa (7.1 mm Hg)
: Density at 20 °C (68 °F):	1 g/cm ³ (8.345 lbs/gal)
: Relative density	Not determined.
: Vapor density	Not determined.

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: 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):	15 mm ² /s
: Solvent content:	
: VOC content:	0.00 %
: Solids content:	45.0 %
: 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.
- : **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:		
64742-94-5 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)
91-20-3 Naphthalene		
Oral	LD50	490 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rat)

- : **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:

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: Carcinogenic categories

: IARC (International Agency for Research on Cancer)		
91-20-3	Naphthalene	2B
: NTP (National Toxicology Program)		
91-20-3	Naphthalene	R
: OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

12 Ecological information

: Toxicity

: Aquatic toxicity:		
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)

: **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	Void
: IMDG, IATA	UN3082

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: UN proper shipping name	
: DOT	Void
: IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha), MARINE POLLUTANT
: IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha)
: Transport hazard class(es)	
: DOT	
: Class	Void
: Label	NOTREGULATED
: IMDG, IATA	
	
: Class	9 Miscellaneous dangerous substances and articles
: Label	9
: Packing group	
: DOT	Void
: IMDG, IATA	III
: Environmental hazards:	Product contains environmentally hazardous substances: Solvent naphtha
: Marine pollutant:	Yes
: Special marking (IATA):	Symbol (fish and tree)
: Special precautions for user	Warning: Miscellaneous dangerous substances and articles
: Hazard identification number (Kemler code):	90
: EMS Number:	F-A,S-F
: Stowage Category	A
: Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
Not applicable.	
: Transport/Additional information:	
: 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 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SOLVENT NAPHTHA), 9, III	



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* 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.

: **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**

91-20-3 Naphthalene

100 lbs or 45.4 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**

91-20-3 Naphthalene

Yes

: **Massachusetts Right to Know Law**

None of the ingredients is listed.

: **Minnesota Right to Know Law**

None of the ingredients is listed.

: **New Jersey Right to Know Law**

None of the ingredients is listed.

: **Pennsylvania Right to Know Law**

64742-94-5 Solvent naphtha (petroleum), heavy arom.

Yes

: **Rhode Island Right to Know Law**

None of the ingredients is listed.

: **New Jersey Special Hazardous Substances**

91-20-3 Naphthalene

: **Illinois Toxic Air Contaminants**

91-20-3 Naphthalene

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: Pennsylvania Right to Know Special Hazardous Substances		
91-20-3	Naphthalene	
: Hazardous Air Pollutants		
None of the ingredients is listed.		
: Proposition 65		
: Chemicals known to cause cancer:		
91-20-3	Naphthalene	
: 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)		
91-20-3	Naphthalene	C, CBD
: TLV (Threshold Limit Value established by ACGIH)		
91-20-3	Naphthalene	A4
: NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
: Clean air act section 111 SOCMl intermediate or final VOC's (40 CFR 60.489)		
None of the ingredients is listed.		

: GHS label elements

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: Hazard pictograms



: Signal word Danger

: Hazard-determining components of labeling:

Solvent naphtha (petroleum), heavy arom.

: Hazard statements

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

: Precautionary statements

P273 Avoid release to the environment.

P301+P310 If swallowed: Immediately call a poison center/doctor.

P331 Do NOT induce vomiting.

P391 Collect spillage.

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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, PhD.

: **Date of preparation / last revision** 08/10/2020 / -

: **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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

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.**