

Printing date 4/25/2024

Reviewed on 4/25/2024

1 Identification

· **Product identifier**

· **Trade name:** Deck Coating

· **Article number:** TK 99

· **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.

· **Application of the substance / the mixture :** *Corrosion and abrasion protection coating*

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

· **Manufacturer/Supplier:**

Chemicar USA
670 New York Street
Memphis, TN 38104
Tel: 1 (800) 261-7976
Fax: 1 (901) 274-8816
Email: Gino.Bauwens@chemicar.com

· **Information department:** Claus.Grafe@chemicar.com

· **Emergency telephone number:** Tel: 1 (800) 424-9300

2 Hazard(s) identification

· **Classification of the substance or mixture**



GHS07

H302: Harmful if swallowed
H315: Causes skin irritation
H319: Causes serious eye irritation

· **Label elements**

GHS label elements

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

· **Hazard pictograms**



GHS07

Signal word WARNING

Hazard -determining components of

labeling: Butyl cello solve

Hazard statements

H302: Harmful if swallowed
H315: Causes skin irritation
H319: Causes serious eye irritation

Precautionary Statements

P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/ eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+ P313: If skin irritation occurs: Get medical advice/attention.

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Trade name: Deck Coating**Precautionary Statements Cont.**

P363: Wash contaminated clothing before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P301+ P312: IF SWALLOWED: Call a Poison Center or doctor/physician if you feel unwell.

P403+P235: Store in a well ventilated place. Keep Cool.

P405: Store locked up.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws, regulations and product characteristics at time of disposal.

· **Classification system:**· **NFPA ratings (scale 0 - 4)****Hazard description:**· **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 additions.· **Dangerous components:**

CAS: 111-76-2 EC number: N/A	2-Butoxyethanol	1 to 2%
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Additional information: For the wording of the listed risk phrases refer to section 16.**4 First-aid measures****Description of first aid measures****After inhalation:** If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops.**After skin contact:** Wash thoroughly affected areas with plenty of soap and water. Get medical attention if irritation occurs.**After eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms persist.**After swallowing:** If symptoms persist consult doctor.**Most important symptoms and effects, both acute and delayed:** May irritate and cause redness and pain.**Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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Trade name: Deck Coating**5 Fire-fighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:** CO2, sand, extinguishing powder, water, water jet.
- **For safety reasons unsuitable extinguishing agents:** Not Applicable
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mount respiratory protective device.
- **Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
 - **Environmental precautions:**
Avoid release into the environment.
 - **Methods and material for containment and cleaning up:**
 - Absorb with vermiculite or other inert material, then place in container for chemical waste.
- Large spillages: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams.
Contain for later disposal.
- 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

- Precautions for safe handling:** Avoid breathing mists or vapors. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. Minimize exposure to air.
- Information about protection against explosions and fires:** Not required.
- Conditions for safe storage, including any incompatibilities**
- Storage:** Keep container tightly closed and in a well ventilated place.
- Requirements to be met by storerooms and receptacles:** Store in a cool location. Store away from heat and light. Do Not Freeze
- Information about storage in one common storage facility:** Not required.
- Further information about storage conditions:** Not required.
Specific end uses: No further relevant information available.

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8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data

· **Control parameters**

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

2-Butoxyethanol; ethylene glycol monobutyl ether butyl cellosolve

PEL	Long-term value: 240 mg/m ³ , 50 ppm
TW L	20 ppm
REL	Not Applicable
TLV	Not Applicable

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Appropriate engineering controls: Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment:**General protective and hygienic measures:**

Wash hands before breaks and at the end of work. Observe good industrial hygiene practices. Do not inhale fumes.

Breathing equipment:

The use of an N rated dust/particle mask respirator is recommended.

Protection of hands:

Protective 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.

Nitrile, latex or poly disposable gloves.

Penetration time of glove material

> 480 min.

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

Body protection: Use protective suit.

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9 Physical and chemical properties**· Information on basic physical and chemical properties****· General Information****· Appearance:**

Form:	Fluid
Color:	Black
· Odor:	Characteristic
· Odour threshold:	Not determined.

· pH-value: 7.5- 8.5

· Change in condition

Melting point/Melting range:	Not Determined.
Boiling point/Boiling range:	100 °C/212 °F
Freezing point/ Freezing range:	0 °C/32 °F

· Flash point: Not Determined

· Flammability (solid, gaseous): Not Applicable.

· Ignition temperature: Not Applicable

· Decomposition temperature: Not determined.

· Auto igniting: Product is not self-igniting.

· Danger of explosion: Product is not explosive.

· Explosion limits:

Lower:	Not Applicable
Upper:	Not Applicable

· Vapor pressure at 20 °C: Not Applicable

· Vapor pressure at 50 °C: Not Applicable

· Density at 20 °C: 1.25 g/cm³ (DIN 51757)

· Relative density Not determined.

· Vapor density Not determined.

· Evaporation rate Not determined.

· Solubility in / Miscibility with

Water: 100%

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Brookfield at 25°C	12,000 cPs at 25 °C
Kinematic:	Not determined

· Solvent content:

Organic solvents:	1 to 5 %
Water:	13-23%
VOC content:	10-30 gr/l

Solids content: 75% -85%

· Other information No further relevant information available.

· VOC (EU): 15 gr/l

· VOC (EU): 1.2%

· VOC (US): 0.13 oz/gal

10 Stability and reactivity

Reactivity: None known

Chemical stability: Stable

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid Do not freeze. Keep away from open flames.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Burning may produce oxides of carbon and nitrogen, hydrogen, cyanide as well as other toxic gases and vapors.

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11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

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

CAS-No: 111-76-2 2-Butoxyethanol

Oral	LD50	1.300 mg/kg
Dermal	LD50	2.000 mg/kg
Inhalation	LC50/4 h	4.9 mg/l

· **Primary irritant effect:**

Inhalation: None known.

Ingestion: Harmful if swallowed.

On the skin: Irritation to skin and mucous membranes.

On the eye: Irritation to eyes.

Sensitization: No sensitizing effects known.

Additional toxicological information: No further relevant information available.

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.

Bio-accumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Eco-toxic effects:

Remark: No further relevant information available

Additional ecological information:

General Notes: Do not release untreated into natural waters. At the present state of knowledge, no negative ecological effects are expected.

Bio-degradation Product: >70% (Zahn Wellens Method).

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 packaging:

Recommendation: Disposal must be made according to local/state/federal/international official regulations. Let uncleaned containers air dry and recycle as a plastic.

Trade name: Deck Coating

14 Transport information

· **UN-Number**
· **DOT, ADR, IMDG, IATA** Not Applicable

· **UN proper shipping name**
· **DOT** Not Applicable
· **ADR** Not Applicable
· **IMDG** Not Applicable
· **IATA** Not Applicable

Transport hazard class(es)

DOT
Class Not Applicable
Label Not Applicable

ADR, IMDG

Class Not Applicable
Label Not Applicable

IATA

Class Not Applicable
Label Not Applicable

Packing group

DOT, IMDG, IATA Not Applicable
ADR Not Applicable

· **Environmental hazards:** Not Applicable
· **Marine pollutant:** Not Applicable
· **Special marking (ADR):** Not Applicable

· **Special precautions for user**
· **Danger code (Kemler):** Not Applicable
EMS Number: Not Applicable

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not Applicable
· **Transport/Additional information:** Not Applicable

· **DOT**
· **Quantity limitations** Not Applicable

ADR
Excepted quantities (EQ) Not Applicable

· **IMDG**
· **Limited quantities (LQ)** Not Applicable
· **Excepted quantities (EQ)** Not Applicable

UN "Model Regulation": Not Applicable

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Trade name: Deck Coating**15 Regulatory information**

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

· Section 355 (extremely hazardous substances):	
None of the ingredient is listed.	
· Section 313 (Specific toxic chemical listings):	
2-Butoxyethanol	1-2%

- **TSCA (Toxic Substances Control Act):** All ingredients are listed.

- **Proposition 65**

· Chemicals known to cause cancer:
None of the ingredients is listed.
· 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.

- **Cancerogenity categories**

· EPA (Environmental Protection Agency)
None of the ingredients is listed.
· TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.
· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

- **GHS label elements**

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

- **Hazard pictograms** GHS07

- **Signal word** Warning

- **Hazard statements**

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H315:Causes skin irritation

H319:Causes serious eye irritation

- **Precautionary Statements**

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/ eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P332+ P313: If skin irritation occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P301+ P310: IF SWALLOWED: Call a Poison Center or doctor/physician if you feel unwell.

P403+P235: Store in a well ventilated place. Keep Cool.

P405: Store locked up.

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws, regulations and product characteristics at time of disposal.

- **National regulations:**

- **Water hazard class:** A Water Hazard Assessment has not been carried out.

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

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Trade name: Deck Coating**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.

HMIS: 1- Health 0- Fire 0- Reactivity

NFPA: 1- Health 0- Fire 0- Reactivity

· **Department issuing MSDS:** Product safety department.

· **Contact:** Claus.Grafe@chemicar.com

· **Date of preparation / last revision** 03/24/2020

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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)

WHMIS: Workplace Hazardous Materials Information System (Canada)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Aquatic Chronic 2:

Hazardous to the aquatic environment - Chronic Hazard, Category 2

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