

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 08/19/2024

Version 4

Reviewed on 08/19/2024

### 1 Identification

- **Product identifier**
- **Trade Name:** DOLPHON® CB-1128-A
- **Article number:** CB-1128-A
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 Von Roll USA, Inc.  
 200 Von Roll Drive  
 SCHENECTADY, NY 12306  
 USA
- **Information department:** Environmental Health and Safety Department
- **Emergency telephone number:**  
 During normal opening hours (day-time): +1 (518) 344-7100  
 Mahoney 24 hours Emergency Message Service to contact EHS: +1 (518) 793-7788  
 For Hazardous Materials [or Dangerous Goods] Incident  
 Spill, Leak, Fire, Exposure, or Accident  
 Call CHEMTREC :+1 703-741-5970 / 1-800-424-9300

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Toxic to Reproduction 1B H360 May damage fertility or the unborn child.

Aquatic Chronic 3

H412 Harmful 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**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol
- **Hazard statements**  
 H360 May damage fertility or the unborn child.  
 H412 Harmful 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.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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Trade Name: **DOLPHON® CB-1128-A**

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· **Classification system:**· **NFPA ratings (scale 0 - 4)**

Health = 0

Fire = 1

Reactivity = 1

· **HMIS-ratings (scale 0 - 4)**

Health = 0

Fire = 1

Reactivity = 1

· **Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:**

61788-32-7 hydrogenated terphenyl

## 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**· **Description:** Mixture of the substances listed below with nonhazardous additions.· **Dangerous components:**

61788-32-7	hydrogenated terphenyl	>10- <25%
1332-58-7	Kaolin	>10- ≤25%
67762-90-7	Hydrophobic Silica	>2.5- ≤10%
1333-86-4	Carbon black	>2.5- ≤10%
119-47-1	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	≥0.1- ≤2.5%

## 4 First-aid measures

· **Description of first aid measures**· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:** Generally the product does not irritate the skin.· **After swallowing:** If symptoms persist consult 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:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.· **Special hazards arising from the substance or mixture** No further relevant information available.

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- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 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.
- **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 section 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:

61788-32-7	hydrogenated terphenyl	1.5 ppm
112945-52-5	Synthetic Amorphous, Pyrogenic Silica	18 mg/m <sup>3</sup>
67762-90-7	Hydrophobic Silica	120 mg/m <sup>3</sup>
1333-86-4	Carbon black	9 mg/m <sup>3</sup>
7631-86-9	silicon dioxide, chemically prepared	18 mg/m <sup>3</sup>
26140-60-3	terphenyl	0.45 mg/m <sup>3</sup>
1344-28-1	aluminium oxide	15 mg/m <sup>3</sup>
12136-45-7	dipotassium oxide	0.18 mg/m <sup>3</sup>
1313-59-3	sodium monoxide	0.5 mg/m <sup>3</sup>
1305-78-8	calcium oxide	6 mg/m <sup>3</sup>
556-67-2	octamethylcyclotetrasiloxane	30 ppm

### · PAC-2:

61788-32-7	hydrogenated terphenyl	47 ppm
112945-52-5	Synthetic Amorphous, Pyrogenic Silica	100 mg/m <sup>3</sup>
67762-90-7	Hydrophobic Silica	1,300 mg/m <sup>3</sup>
1333-86-4	Carbon black	290 mg/m <sup>3</sup>
7631-86-9	silicon dioxide, chemically prepared	200 ppm
26140-60-3	terphenyl	5 mg/m <sup>3</sup>
1344-28-1	aluminium oxide	41 ppm
12136-45-7	dipotassium oxide	2 mg/m <sup>3</sup>
1313-59-3	sodium monoxide	5 mg/m <sup>3</sup>
1305-78-8	calcium oxide	42 mg/m <sup>3</sup>
556-67-2	octamethylcyclotetrasiloxane	68 ppm

### · PAC-3:

61788-32-7	hydrogenated terphenyl	280 ppm
112945-52-5	Synthetic Amorphous, Pyrogenic Silica	630 mg/m <sup>3</sup>
67762-90-7	Hydrophobic Silica	7,900 mg/m <sup>3</sup>

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1333-86-4	Carbon black	1750 mg/m <sup>3</sup>
7631-86-9	silicon dioxide, chemically prepared	1200 ppm
26140-60-3	terphenyl	1,400 mg/m <sup>3</sup>
1344-28-1	aluminium oxide	240 ppm
12136-45-7	dipotassium oxide	54 mg/m <sup>3</sup>
1313-59-3	sodium monoxide	50 mg/m <sup>3</sup>
1305-78-8	calcium oxide	250 mg/m <sup>3</sup>
556-67-2	octamethylcyclotetrasiloxane	130 ppm

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Open and handle receptacle with care.
- **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 section 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.

#### 61788-32-7 hydrogenated terphenyl

REL	Long-term value: 5 mg/m <sup>3</sup> , 0.5 ppm
TLV	Long-term value: 0.5 ppm nonirradiated

#### 1332-58-7 Kaolin

PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	Long-term value: 2* mg/m <sup>3</sup> E; respirable particulate matter, A4

#### 1333-86-4 Carbon black

PEL	Long-term value: 3.5 mg/m <sup>3</sup>
REL	Long-term value: 3.5* mg/m <sup>3</sup> *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m <sup>3</sup> *inhalable fraction, A3

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· **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:** Not required.

· **Protection of hands:**



Protective gloves

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: Fluid

Color: Black

· **Odor:** Like aromatic solvents

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 60 °C (140 °F)

· **Flash point:** >93.3 °C (>199.9 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Auto igniting:** >370 °C (>698 °F)

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: Not determined.

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<b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with 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:</b>	Not determined.
· <b>Solvent content:</b>	
<b>VOC content:</b>	0.00 % 0.0 g/l / 0.00 lb/gal
· <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.
- **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)**

Oral	LD50	>29,579 mg/kg (rat)
------	------	---------------------

**67762-90-7 Hydrophobic Silica**

Oral	LD50	>1,000 mg/kg (rat)
------	------	--------------------

Dermal	LD50	>2,000 mg/kg (rat)
--------	------	--------------------

**1333-86-4 Carbon black**

Oral	LD50	10,000 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)**

1333-86-4	Carbon black	2B
7631-86-9	silicon dioxide, chemically prepared	3

· **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.· **Ecotoxical effects:**· **Remark:** Harmful to 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.

Harmful to aquatic organisms

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:**

61788-32-7	hydrogenated terphenyl
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· **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** not regulated· **UN proper shipping name**· **DOT, IMDG, IATA** not regulated

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- |   |                 |
|---|-----------------|
| · <b>Transport hazard class(es)</b>   |                 |
| · <b>DOT, ADN, IMDG, IATA</b>   |                 |
| · <b>Class</b>  | not regulated   |
| · <b>Packing group</b>  |                 |
| · <b>DOT, IMDG, IATA</b>  | not regulated   |
| · <b>Environmental hazards:</b>   | Not applicable. |
| · <b>Special precautions for user</b>   | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>   | not regulated   |

### 15 Regulatory information

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

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

None of the ingredients is listed.

#### · **Section 313 (Specific toxic chemical listings):**

1344-28-1 aluminium oxide

#### · **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

#### · **Hazardous Air Pollutants**

None of the ingredients is listed.

#### · **Proposition 65**

#### · **Chemicals known to cause cancer:**

1333-86-4 Carbon black

#### · **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.

#### · **Carcinogenic categories**

#### · **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

#### · **TLV (Threshold Limit Value)**

1332-58-7 Kaolin

A4

1333-86-4 Carbon black

A4

1344-28-1 aluminium oxide

A4

#### · **NIOSH-Ca (National Institute for Occupational Safety and Health)**

1333-86-4 Carbon black

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- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labeling:**  
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol
- **Hazard statements**  
H360 May damage fertility or the unborn child.  
H412 Harmful 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.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
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.

- **Relevant phrases** Shelf life: 365 days at room temperature and not recommended at cold room temperature
- **Department issuing SDS:** Environment Health and Safety Department
- **Contact:** Hitesh Surti
- **Date of preparation / last revision** 08/19/2024 / 3
- **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  
Toxic to Reproduction 1B: Reproductive toxicity – Category 1B  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- **\* Data compared to the previous version altered.**

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acc. to OSHA HCS

Printing date 08/19/2024

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Reviewed on 12/14/2023

## 1 Identification

- **Product identifier**
- **Trade Name:** CB-1128-B
- **Article number:** CB-1128-B
- **CAS Number:**  
9016-87-9
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Von Roll USA, Inc.  
200 Von Roll Drive  
SCHENECTADY, NY 12306  
USA
- **Information department:** Environmental Health and Safety Department
- **Emergency telephone number:**  
During normal opening hours (day-time): +1 (518) 344-7100  
Mahoney 24 hours Emergency Message Service to contact EHS: +1 (518) 793-7788  
For Hazardous Materials [or Dangerous Goods] Incident  
Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC :+1 703-741-5970 / 1-800-424-9300

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Sensitization - Respiratory 1

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carcinogenicity 2

H351 Suspected of causing cancer.

Specific Target Organ Toxicity - Repeated Exposure 2

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



GHS07

Acute Toxicity - Inhalation 4

H332 Harmful if inhaled.

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 3

H335 May cause respiratory irritation.

- **Label elements**

- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07



GHS08

- **Signal word** Danger

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**Trade Name: CB-1128-B**

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

diphenylmethanediisocyanate, isomers and homologues

· **Hazard statements**

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

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.

P264 Wash thoroughly after handling.

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

P272 Contaminated work clothing must not be allowed out of the workplace.

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

P284 [In case of inadequate ventilation] wear respiratory protection.

P302+P352 If on skin: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a poison center/doctor if you feel unwell.

P321 Specific treatment (see on this label).

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 1

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 3

Fire = 1

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

### 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:**  
Supply fresh air and to be sure call for a doctor.  
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. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult 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:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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:** No special measures required.
- **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 section 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.

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### · Protective Action Criteria for Chemicals

· PAC-1:	
	0.15 mg/m <sup>3</sup>
· PAC-2:	
	3.6 mg/m <sup>3</sup>
· PAC-3:	
	22 mg/m <sup>3</sup>

## 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 section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **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 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

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

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- **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.

- **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:** Dark brown

- **Odor:** Slight Musty

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

**Melting point/Melting range:** 41 °C (105.8 °F)

**Boiling point/Boiling range:** 190 °C (374 °F)

- **Flash point:** >110 °C (>230 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Auto igniting:** 400 °C (752 °F)

- **Decomposition temperature:** Not determined.

- **Ignition temperature:** Not determined.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

- **Vapor pressure at 25 °C (77 °F):** 0.0002 hPa (0 mm Hg)

- **Density at 20 °C (68 °F):** 1.24 g/cm<sup>3</sup> (10.3478 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.

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**Kinematic:** Not determined.  
**VOC content:** 0.00 %  
 0.0 g/l / 0.00 lb/gal

· **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)**

Inhalative LC50/4 h 11 mg/l

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:**  
 Sensitization possible through inhalation.  
 Sensitization possible through skin contact.
- **Additional toxicological information:**

- **Carcinogenic categories**

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

3

· **NTP (National Toxicology Program)**

Substance is not listed.

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

Substance is not 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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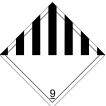
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- **Additional ecological information:**
- **General notes:**  
*Water hazard class 1 (Assessment by list): slightly hazardous for water*  
*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*
- **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**
  - **IMDG, IATA**
- |  |               |
|--|---------------|
|  | UN3082        |
|  | not regulated |
- 
- **UN proper shipping name**
  - **DOT**
  - **IMDG, IATA**
- |  |  |
|--|--|
|  | Environmentally hazardous substance, liquid, n.o.s. (contains 4,4'-methylenediphenyl diisocyanate) |
|  | not regulated  |
- 
- **Transport hazard class(es)**
  - **DOT**
- 
- |                       |   |
|-----------------------|---|
| · <b>Class</b>        | 9 Miscellaneous dangerous substances and articles |
| · <b>Label</b>        | 9   |
| · <b>ADN/R Class:</b> | not regulated                                     |
- 
- **Packing group**
  - **DOT**
  - **IMDG, IATA**
- |  |               |
|--|---------------|
|  | III           |
|  | not regulated |
- 
- **Environmental hazards:**
  - **Special precautions for user**
- |  |                 |
|--|-----------------|
|  | Not applicable. |
|  | Not applicable. |
- 
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
  - **UN "Model Regulation":**
- |  |                 |
|--|-----------------|
|  | Not applicable. |
|  | not regulated   |

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## 15 Regulatory information

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

No further relevant information available.

· **Sara**

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

Substance is not listed.

· **Section 313 (Specific toxic chemical listings):**

Substance is listed.

· **TSCA (Toxic Substances Control Act):**

ACTIVE

· **Hazardous Air Pollutants**

Substance is not listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

· **Chemicals known to cause developmental toxicity:**

Substance is not listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

CBD

· **TLV (Threshold Limit Value)**

Substance is not listed.

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

Substance is not listed.

· **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Danger

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

diphenylmethanediisocyanate, isomeres and homologues

· **Hazard statements**

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

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*H335 May cause respiratory irritation.**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.**P264 Wash thoroughly after handling.**P271 Use only outdoors or in a well-ventilated area.**P272 Contaminated work clothing must not be allowed out of the workplace.**P280 Wear protective gloves/protective clothing/eye protection/face protection.**P284 [In case of inadequate ventilation] wear respiratory protection.**P302+P352 If on skin: Wash with plenty of water.**P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.**P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P308+P313 IF exposed or concerned: Get medical advice/attention.**P312 Call a poison center/doctor if you feel unwell.**P321 Specific treatment (see on this label).**P314 Get medical advice/attention if you feel unwell.**P362+P364 Take off contaminated clothing and wash it before reuse.**P333+P313 If skin irritation or rash occurs: Get medical advice/attention.**P337+P313 If eye irritation persists: Get medical advice/attention.**P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.**P363 Wash contaminated clothing before reuse.**P403+P233 Store in a well-ventilated place. Keep container tightly closed.**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.***· Relevant phrases** Shelf life: 365 days at room temperature and not recommended at cold room temperature**· Department issuing SDS:** Environment Health and Safety Department**· Contact:** Hitesh Surti**· Date of preparation / last revision** 12/14/2023 / 3**· Abbreviations and acronyms:***IMDG: International Maritime Code for Dangerous Goods**DOT: US Department of Transportation**IATA: International Air Transport Association**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**Acute Toxicity - Inhalation 4: Acute toxicity – Category 4*

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*Skin Irritation 2: Skin corrosion/irritation – Category 2**Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A**Sensitization - Respiratory 1: Respiratory sensitisation – Category 1**Sensitization - Skin 1: Skin sensitisation – Category 1**Carcinogenicity 2: Carcinogenicity – Category 2**Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3**Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2***. \* Data compared to the previous version altered.**

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