## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product Identifiers

Product name : DPX Mountant
Type of product : Chemical substance
Product grade : Dyes/Indicator Solution
CAS No :

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Reagent for analysis

### 1.3. Details of the supplier of the safety data sheet

RYZE CHEMIE PRIVATE LIMITED
Gami Industrial Park, Unit.13, Second Floor, C Block,
Plot No.C-39-A, TTC Industrial area, Navi Mumbai,
Thane, Maharashtra-400705
Safety@ryzechemie.com

### 1.4. Emergency Telephone Number: +91- 9930060404

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

| | |
|---|---|
| Flammable liquids, Category 2 | H225: Highly flammable liquid and vapour. |
| Skin irritation, Category 2 | H315: Causes skin irritation. |
| Eye irritation, Category 2 | H319: Causes serious eye irritation. |
| Reproductive toxicity, Category 1B | H360FD: May damage fertility. May damage the unborn child. |

| | |
|---|---|
| Specific target organ toxicity - single exposure, Category 3, Respiratory system | H335: May cause respiratory irritation. |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness. |
| Specific target organ toxicity - repeated exposure, Category 2, Central nervous system, Liver, Kidney | H373: May cause damage to organs through prolonged or repeated exposure if inhaled. |
| Aspiration hazard, Category 1 | H304: May be fatal if swallowed and enters airways. |
| Endocrine disruptor for human health, Category 1 | EUH380: May cause endocrine disruption in humans. |
| Long-term (chronic) aquatic hazard, Category 3 | H412: Harmful to aquatic life with long lasting effects. |
| Endocrine disruptor for environment, Category 1 | EUH430: May cause endocrine disruption in the environment. |

## 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Danger

Hazard statements :

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H360FD | May damage fertility. May damage the unborn child. |
| H373 | May cause damage to organs (Central nervous system, Liver, Kidney) through prolonged or repeated exposure if inhaled. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH380 | May cause endocrine disruption in humans. |
| EUH430 | May cause endocrine disruption in the |

environment.



Ryze Chemie Pvt. Ltd. | Gami Industrial Park, Unit.13, Second Floor, C Block, Plot No.C-39-A, TTC Industrial area, Navi Mumbai, Thane, Maharashtra-400705 | www.ryzechemie.com

| | | |
|---|---|---|
| Precautionary statements | : | **Prevention:** |
| | | P201 Obtain special instructions before use. |
| | | P202 Do not handle until all safety precautions have been read and understood. |
| | | P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| | | P263 Avoid contact during pregnancy and while nursing. |
| | | P273 Avoid release to the environment. |
| | | P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. |
| | | **Response:** |
| | | P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. |
| | | P331 Do NOT induce vomiting. |
| | | P391 Collect spillage. |
| | | **Storage:** |
| | | P405 Store locked up. |
| | | **Disposal:** |
| | | P501 Dispose of contents/ container to an approved waste disposal plant. |

**Hazardous components which must be listed on the label:**

Toluene
Xylene
dibutyl phthalate

**Additional Labelling**

Restricted to professional users.

**Reduced Labelling (<= 125 ml)**

Hazard pictograms :



| | |
|---|---|
| Signal word | Danger |
| Hazard Statements | |
| H304 | May be fatal if swallowed and enters airways. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH380 | May cause endocrine disruption in humans. |
| EUH430 | May cause endocrine disruption in the environment. |
| H360FD | May damage fertility. May damage the unborn child. |
| Precautionary Statements | |
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |

| | |
|---|---|
| P263 | Avoid contact during pregnancy and while nursing. |
| 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. |
| P331 | Do NOT induce vomiting. |
| P391 | Collect spillage. |
| P405 | Store locked up. |
| P501 | Dispose of contents/ container to an approved waste disposal plant. |
| Supplemental Hazard Statements | none |

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Components**

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification | Concentration (% w/w) |
|---|---|---|---|
| Toluene | 108-88-3<br>203-625-9<br>601-021-00-3<br>01-2119471310-51-XXXX | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>Repr. 2; H361d<br>STOT SE 3; H336 (Central nervous system)<br>STOT RE 2; H373 (Central nervous system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3; H412<br><br>specific concentration limit<br>STOT SE 3; H336<br>20 % | >= 50 - <= 100 |
| Xylene | 1330-20-7<br>215-535-7<br>601-022-00-9<br>01-2119488216-32-XXXX | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315 | >= 25 - < 50 |

| | | | |
|---|---|---|---|
| | | Eye Irrit. 2; H319<br>STOT SE 3; H335 (Respiratory system)<br>STOT RE 2; H373 (Central nervous system, Liver, Kidney)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3; H412 | |
| dibutyl phthalate | 84-74-2<br>201-557-4<br>607-318-00-4<br>01-2119493042-44-XXXX | Repr. 1B; H360Df<br>ED HH 1; EUH380<br>Aquatic Acute 1; H400<br>ED ENV 1; EUH430 | >= 5 - < 10 |
| | | M-Factor (Acute aquatic toxicity): 1 | |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Show this safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air. Call in physician.

In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact : After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed : After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

| | | |
|---|---|---|
| Suitable extinguishing media | : | Foam<br>Carbon dioxide (CO2)<br>Dry powder |
| Unsuitable extinguishing media | : | For this substance/mixture no limitations of extinguishing agents are given. |

### 5.2 Special hazards arising from the substance or mixture

| | | |
|---|---|---|
| Specific hazards during fire fighting | : | Combustible.<br><br>Pay attention to flashback.<br>Vapours are heavier than air and may spread along floors.<br>Development of hazardous combustion gases or vapours possible in the event of fire.<br>Forms explosive mixtures with air at ambient temperatures. |
| Hazardous combustion products | : | Carbon oxides |

### 5.3 Advice for firefighters

| | | |
|---|---|---|
| Special protective equipment for fire-fighters | : | Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. |
| Further information | : | Remove container from danger zone and cool with water.<br>Prevent fire extinguishing water from contaminating surface water or the ground water system. |

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

| | | |
|---|---|---|
| Personal precautions | : | Advice for non-emergency personnel:<br>Do not breathe vapours, aerosols.<br>Avoid substance contact.<br>Ensure adequate ventilation.<br>Keep away from heat and sources of ignition.<br>Evacuate the danger area, observe emergency procedures, consult an expert. |

For personal protection see section 8.

### 6.2 Environmental precautions

| | | |
|---|---|---|
| Environmental precautions | : | Do not let product enter drains.<br>Risk of explosion. |

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10).
Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class (TRGS 510) : 3, Flammable liquids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational Exposure Limits**

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006**

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|---|---|---|---|
| Xylene | Worker DNEL, acute | Inhalation | Local and systemic effects | 289 mg/m3 |
| | Worker DNEL, acute | Inhalation | Local and systemic effects | 289 mg/m3 |

| | | | | |
|---|---|---|---|---|
| | Worker DNEL, longterm | Dermal | Systemic effects | 180 mg/kg |
| | Worker DNEL, longterm | Dermal | Systemic effects | 180 mg/kg |
| | Worker DNEL, longterm | Inhalation | Systemic effects | 77 mg/m3 |
| | Worker DNEL, longterm | Inhalation | Systemic effects | 77 mg/m3 |
| | Consumer DNEL, acute | Inhalation | Local and systemic effects | 174 mg/m3 |
| | Consumer DNEL, acute | Inhalation | Local and systemic effects | 174 mg/m3 |
| | Consumer DNEL, longterm | Dermal | Systemic effects | 108 mg/kg |
| | Consumer DNEL, longterm | Dermal | Systemic effects | 108 mg/kg |
| | Consumer DNEL, longterm | Inhalation | Systemic effects | 14,8 mg/m3 |
| | Consumer DNEL, longterm | Inhalation | Systemic effects | 14,8 mg/m3 |

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006**

| Substance name | Environmental Compartment | Value |
|---|---|---|
| Xylene | Fresh water | 0,327 mg/l |
| | Marine water | 0,327 mg/l |
| | Aquatic intermittent release | 0,327 mg/l |
| | Sewage treatment plant | 6,58 mg/l |
| | Fresh water sediment | 12,46 mg/kg |
| | Marine sediment | 12,46 mg/kg |
| | Soil | 2,31 mg/kg |

## 8.2 Exposure controls

**Personal protective equipment**

Eye/face protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Safety glasses

Hand protection

Remarks : required

Skin and body protection : Flame retardant antistatic protective clothing.

Respiratory protection : required when vapours/aerosols are generated.

Our recommendations on filtering respiratory

protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: : Filter type ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Environmental exposure controls**

Advice : Do not let product enter drains.
Risk of explosion.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | liquid |
| Form | : | viscous |
| Color | : | colourless |
| Odor | : | No data available |
| Melting point | : | No data available |
| Boiling point | : | No data available |
| Flammability | : | No data available |
| Upper explosion limit / Upper flammability limit | : | 7 %(V) |
| Lower explosion limit / Lower flammability limit | : | 0,1 %(V) |
| Flash point | : | 8 °C |
| Autoignition temperature | : | 390 °C |
| Decomposition temperature | : | No data available |
| pH | : | No data available |

| | | |
|---|---|---|
| Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | No data available |
| Flow time | : | No data available |
| Solubility(ies) | | |
| Water solubility | : | practically insoluble |
| Partition coefficient: n-octanol/water | : | No data available |
| Vapor pressure | : | 29 hPa |
| Relative density | : | No data available |
| Density | : | No data available |
| Relative vapour density | : | No data available |

**9.2 Other information**

| | | |
|---|---|---|
| Explosives | : | Not classified as explosive. |
| Oxidizing properties | : | none |
| Burning rate | : | No data available |
| Evaporation rate | : | No data available |

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

Vapours may form explosive mixture with air.

**10.2 Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

| | | |
|---|---|---|
| Conditions to avoid | : | Warming. |

**10.5 Incompatible materials**

| | | |
|---|---|---|
| Materials to avoid | : | Bases |

Strong oxidizing agents
acids
Chlorine
Nitrates

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Mixture**

**Acute toxicity**
Oral: No data available
Symptoms: Possible symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages: damage of respiratory tract
Acute toxicity estimates Inhalation - 4 h - > 20 mg/l - vapour(Calculation method)

Acute toxicity estimates Dermal - > 2.000 mg/kg
(Calculation method)

**Skin corrosion/irritation**
Remarks: Mixture causes skin irritation.

**Serious eye damage/eye irritation**
Remarks: Mixture causes serious eye irritation.

**Respiratory or skin sensitization**
No data available

**Germ cell mutagenicity**
No data available

**Carcinogenicity**
No data available

**Reproductive toxicity**
May harm the unborn child.
May impair fertility.

**Specific target organ toxicity - single exposure**
Mixture may cause respiratory irritation.
Mixture may cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure**
Mixture may cause damage to organs through prolonged or repeated exposure.
- Central nervous system, Liver, Kidney

**Aspiration hazard**
Aspiration hazard, Aspiration may cause pulmonary oedema and pneumonitis.

## 11.2 Additional Information

**Endocrine disrupting properties**

**Components:**

**dibutyl phthalate:**

| | |
|---|---|
| Assessment | The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for human health. |

Exposure can cause damage to the: Central nervous system depression, Dermatitis, Anorexia., Bronchitis., Tremors, Blurred vision, Incoordination., Headache, Vomiting, Dizziness, Weakness, anemia, Prolonged or repeated exposure to skin causes defatting and dermatitis.
Other dangerous properties cannot be excluded.

This substance should be handled with particular care.

Handle in accordance with good industrial hygiene and safety practice.

**Components**

**Toluene**

**Acute toxicity**
LD50 Oral - Rat - male - 5.580 mg/kg
(Directive 67/548/EEC, Annex V, B.1.)
LC50 Inhalation - Rat - male - 4 h - 25,7 mg/l - vapour
(OECD Test Guideline 403)
LD50 Dermal - Rabbit - male - > 5.000 mg/kg
Remarks: (ECHA)

**Skin corrosion/irritation**
Skin - Rabbit
Result: irritating - 4 h
(Regulation (EC) No. 440/2008, Annex, B.4)

**Serious eye damage/eye irritation**
Eyes - Rabbit
Result: No eye irritation
(OECD Test Guideline 405)

**Respiratory or skin sensitization**
Maximization Test - Guinea pig
Result: negative
(Regulation (EC) No. 440/2008, Annex, B.6)

**Germ cell mutagenicity**
Test Type: In vitro mammalian cell gene mutation test
Test system: Mouse lymphoma test
Result: negative
Test Type: Ames test
Test system: S. typhimurium
Result: negative
Species: Rat - Bone marrow

Result: negative
Remarks: (ECHA)

**Carcinogenicity**
No data available

**Reproductive toxicity**
Suspected of damaging the unborn child.

**Specific target organ toxicity - single exposure**
Inhalation - May cause drowsiness or dizziness. - Central nervous system
Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

**Specific target organ toxicity - repeated exposure**
Inhalation - May cause damage to organs through prolonged or repeated exposure. - Central nervous system
Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

**Aspiration hazard**
Aspiration may cause pulmonary oedema and pneumonitis.

**Xylene**

**Acute toxicity**
LD50 Oral - Rat - male - 3.523 mg/kg
(EC Directive 92/69/EEC B.1 Acute Toxicity (Oral))
Remarks: (ECHA)
LC50 Inhalation - Rat - male - 4 h - 29,09 mg/l - vapour
(Regulation (EC) No. 440/2008, Annex, B.2)
Remarks: (Regulation (EC) No 1272/2008, Annex VI)
LD50 Dermal - Rabbit - > 1.700 mg/kg
Remarks: (RTECS)

**Skin corrosion/irritation**
Skin - Rabbit
Result: Moderate skin irritation - 24 h
Remarks: (IUCLID)
Remarks: Drying-out effect resulting in rough and chapped skin.
After long-term exposure to the chemical:
Dermatitis

**Serious eye damage/eye irritation**
Eyes - Rabbit
Result: Causes serious eye irritation. - 24 h
Remarks: (RTECS)

**Respiratory or skin sensitization**
Local lymph node assay (LLNA) - Mouse
Result: negative
(OECD Test Guideline 429)

**Germ cell mutagenicity**
Test Type: Mutagenicity (mammal cell test): chromosome aberration.
Test system: Chinese hamster ovary cells
Result: negative
Remarks: (National Toxicology Program)

Test Type: Ames test
Test system: Salmonella typhimurium
Result: negative
Test Type: sister chromatid exchange assay
Test system: Chinese hamster ovary cells
Result: negative
Method: OECD Test Guideline 478
Species: Mouse - male and female
Result: negative

**Carcinogenicity**
No data available

**Reproductive toxicity**
No data available

**Specific target organ toxicity - single exposure**
May cause respiratory irritation. - Respiratory system

**Specific target organ toxicity - repeated exposure**
Inhalation - May cause damage to organs through prolonged or repeated exposure.
- Central nervous system, Liver, Kidney

**Aspiration hazard**
May be fatal if swallowed and enters airways.

**dibutyl phthalate**

**Acute toxicity**
LD50 Oral - Rat - male and female - 6.279 mg/kg
(OECD Test Guideline 401)
LC50 Inhalation - Rat - male and female - 4 h - >= 15,68 mg/l - aerosol
Remarks: (ECHA)
LD50 Dermal - Rabbit - > 21.000 mg/kg
Remarks: (RTECS)

**Skin corrosion/irritation**
Skin - Rabbit
Result: No skin irritation - 4 h
(OECD Test Guideline 404)

**Serious eye damage/eye irritation**
Eyes - Rabbit
Result: No eye irritation - 72 h
(OECD Test Guideline 405)

**Respiratory or skin sensitization**
Maximisation Test - Guinea pig
Result: negative
(OECD Test Guideline 406)

**Germ cell mutagenicity**
Test Type: Ames test
Test system: S. typhimurium
Result: negative
Remarks: (ECHA)
Species: Mouse

Result: negative
Remarks: (ECHA)

**Carcinogenicity**
No data available

**Reproductive toxicity**
May damage the unborn child.
Suspected of damaging fertility.

**Specific target organ toxicity - single exposure**
No data available

**Specific target organ toxicity - repeated exposure**

**Aspiration hazard**
No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

**Components:**

**Toluene:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus kisutch (coho salmon)): 5,5 mg/l<br>End point: mortality<br>Exposure time: 96 h<br>Test Type: flow-through test<br>Analytical monitoring: yes<br>Remarks: (ECHA) |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Ceriodaphnia dubia (water flea)): 3,78 mg/l<br>End point: mortality<br>Exposure time: 48 h<br>Analytical monitoring: yes<br>Method: US-EPA |
| Toxicity to microorganisms | : | EC50 (Bacteria): 84 mg/l<br>Exposure time: 24 h<br>Test Type: static test<br>Remarks: (ECHA) |
| Toxicity to fish (Chronic toxicity) | : | NOEC: 1,39 mg/l<br>End point: Growth inhibition<br>Exposure time: 40 d<br>Species: Oncorhynchus kisutch (coho salmon)<br>Test Type: flow-through test<br>Analytical monitoring: yes<br>Remarks: (ECHA) |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 0,74 mg/l<br>End point: reproduction rate<br>Exposure time: 7 d<br>Species: Ceriodaphnia dubia (water flea) |

Analytical monitoring : yes

Method: US-EPA

**Xylene:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 2,60 mg/l<br>End point: mortality<br>Exposure time: 96 h<br>Test Type: static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 203 |
| Toxicity to algae/aquatic plants | : | EC50 (Pseudokirchneriella subcapitata): 4,36 mg/l<br>Exposure time: 73 h<br>Test Type: static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 201<br>GLP: yes |
| Toxicity to microorganisms | : | NOEC (activated sludge): 16,2 mg/l<br>Exposure time: 28 h<br>Test Type: static test<br>GLP: yes<br>Remarks: (ECHA) |
| Toxicity to fish (Chronic toxicity) | : | NOEC: > 1,3 mg/l<br>End point: mortality<br>Exposure time: 56 d<br>Species: Oncorhynchus mykiss (rainbow trout)<br>Test Type: flow-through test<br>Analytical monitoring: yes<br>Remarks: (ECHA) |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 0,96 mg/l<br>End point: reproduction rate<br>Exposure time: 7 d<br>Species: Ceriodaphnia dubia (water flea)<br>Analytical monitoring: yes<br>Method: US-EPA |

**dibutyl phthalate:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Lepomis macrochirus (Bluegill sunfish)): ca. 0,48 mg/l<br>End point: mortality<br>Exposure time: 96 h<br>Test Type: static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 203<br>GLP: yes |
| Toxicity to daphnia and | | other aquatic invertebrates |

: EC50 (Daphnia magna (Water flea)): ca. 2,99 mg/l End point: mortality Exposure time: 48 h

Test Type: static test
Analytical monitoring: yes
Method: US-EPA
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

**Ecotoxicology Assessment**

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

## 12.2 Persistence and degradability

**Components:**

**Toluene:**

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Biodegradation: 86 %
Exposure time: 20 d
Remarks: (IUCLID)

**Xylene:**

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 16 mg/l
Result: Readily biodegradable.
Biodegradation: 94 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

**dibutyl phthalate:**

Biodegradability : Inoculum: activated sludge, non-adapted
Concentration: 21,7 mg/l
Result: Readily biodegradable.
Biodegradation: 81 %
Exposure time: 28 d
Method: Regulation (EC) No. 440/2008, Annex, C.4-C
GLP: yes

## 12.3 Bioaccumulative potential

**Components:**

**Toluene:**

Bioaccumulation : Species: Leuciscus idus (Golden orfe)
Exposure time: 3 d
Concentration: 0,05 mg/l
Bioconcentration factor (BCF): 90

Partition coefficient: n- : log Pow: 2,73 (20 °C)

| | | |
|---|---|---|
| octanol/water | | pH: 7<br>Remarks: Bioaccumulation is not expected. |

**Xylene:**

| | | |
|---|---|---|
| Bioaccumulation | : | Species: Oncorhynchus mykiss (rainbow trout)<br>Exposure time: 56 d<br>Temperature: 10 °C<br>Concentration: 1,3 mg/l<br>Bioconcentration factor (BCF): 7,4 - 18,5 |
| Partition coefficient: n-octanol/water | : | log Pow: 3,12 (20 °C)<br>pH: 7<br>Remarks: Bioaccumulation is not expected. |

**dibutyl phthalate:**

| | | |
|---|---|---|
| Bioaccumulation | : | Species: Pimephales promelas (fathead minnow)<br>Exposure time: 11 d<br>Concentration: 0,0348 mg/l<br>Bioconcentration factor (BCF): 2.165<br>Remarks: Does not bioaccumulate. |
| Partition coefficient: n-octanol/water | : | log Pow: 4,46 (30 °C)<br>pH: 5 - 8<br>Method: Regulation (EC) No. 440/2008, Annex, A.8<br>Remarks: Potential bioaccumulation |

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

| | | |
|---|---|---|
| Assessment | : | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |

**Components:**

**Xylene:**

| | | |
|---|---|---|
| Assessment | : | Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII. |

### 12.6 Endocrine disrupting properties

**Components:**

**dibutyl phthalate:**

| | | |
|---|---|---|
| Assessment | : | The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environment. |

### 12.7 Other adverse effects

**Components:**

**dibutyl phthalate:**

Additional ecological information : Discharge into the environment must be avoided.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

## SECTION 14: Transport information

### 14.1 UN number or ID number

**ADR** : UN 1294

**IMDG** : UN 1294

**IATA** : UN 1294

### 14.2 UN proper shipping name

**ADR** : TOLUENE, SOLUTION (Toluene)

**IMDG** : TOLUENE, SOLUTION (Toluene)

**IATA** : Toluene, solution (Toluene)

### 14.3 Transport hazard class(es)

| | Class | Subsidiary risks |
|---|---|---|
| **ADR** | 3 | |
| **IMDG** | 3 | |
| **IATA** | 3 | |

### 14.4 Packing group

**ADR**

Packing group : II

Classification Code : F1

| | | |
|---|---|---|
| Hazard Identification Number | : | 33 |
| Labels | : | 3 |
| Tunnel restriction code | : | (D/E) |

**IMDG**

| | | |
|---|---|---|
| Packing group | : | II |
| Labels | : | 3 |
| EmS Code | : | F-E, S-D |

**IATA (Cargo)**

| | | |
|---|---|---|
| Packing instruction (cargo aircraft) | : | 364 |
| Packing instruction (LQ) | : | Y341 |
| Packing group | : | II |
| Labels | : | Class 3 - Flammable liquids |

**IATA_P (Passenger)**

| | | |
|---|---|---|
| Packing instruction (passenger aircraft) | : | 353 |
| Packing instruction (LQ) | : | Y341 |
| Packing group | : | II |
| Labels | : | Class 3 - Flammable liquids |

### 14.5 Environmental hazards

**ADR**

| | | |
|---|---|---|
| Environmentally hazardous | : | no |

**IMDG**

| | | |
|---|---|---|
| Marine pollutant | : | no |

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

| | | |
|---|---|---|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : | Conditions of restriction for the following entries should be considered:<br>Number on list 3<br><br>Number on list 30: dibutyl phthalate<br><br>Number on list 48: Toluene |

Number on list 51b: dibutyl phthalate

Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59) : dibutyl phthalate

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - List of substances subject to authorization (Annex XIV) : dibutyl phthalate

This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr. 1907/2006.
Listed substance / Sunset Date : dibutyl phthalate / 21.02.2015

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

| | | |
|---|---|---|
| | P5c | |
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | P5c | FLAMMABLE LIQUIDS |

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

## SECTION 16: Other information

**Full text of H-Statements**

| | | |
|---|---|---|
| EUH380 | : | May cause endocrine disruption in humans. |
| EUH430 | : | May cause endocrine disruption in the environment. |
| H225 | : | Highly flammable liquid and vapour. |
| H226 | : | Flammable liquid and vapour. |
| H304 | : | May be fatal if swallowed and enters airways. |
| H312 | : | Harmful in contact with skin. |
| H315 | : | Causes skin irritation. |
| H319 | : | Causes serious eye irritation. |
| H332 | : | Harmful if inhaled. |
| H335 | : | May cause respiratory irritation. |

| | | |
|---|---|---|
| H336 | : | May cause drowsiness or dizziness. |

| | | |
|---|---|---|
| H360Df | : | May damage the unborn child. Suspected of damaging fertility. |
| H360FD | : | May damage fertility. May damage the unborn child. |
| H361d | : | Suspected of damaging the unborn child. |
| H373 | : | May cause damage to organs through prolonged or repeated exposure if inhaled. |
| H400 | : | Very toxic to aquatic life. |
| H412 | : | Harmful to aquatic life with long lasting effects. |
| H336 | : | May cause drowsiness or dizziness. |

**Abbreviation and Acronyms**

CAS - Chemical Abstracts Service
TSCA - United States Toxic Substances Control Act Section 8(b)Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non- Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japanese Existing and New Chemical Substances
IECSC - Chinese Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
WEL - Workplace Exposure Limit
TWA - Time Weighted Average
ACGIH - American Conference of Governmental Industrial Hygienists
IARC - International Agency for Research on Cancer
DNEL - Derived No Effect Level
PNEC - Predicted No Effect Concentration
RPE - Respiratory Protective Equipment
LD50 - Lethal Dose 50%
LC50 - Lethal Concentration 50%
EC50 - Effective Concentration 50%
NOEC - No Observed Effect Concentration
POW- Partition coefficient Octanol: Water
PBT - Persistent, Bioaccumulative, Toxic
vPvB - very Persistent, very Bioaccumulative
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road
ICAO/IATA - International Civil Aviation Organization/International Air Transport Association
IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code
MARPOL - International Convention for the Prevention of Pollution from Ships
OECD - Organization for Economic Co-operation and Development
ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor
VOC - (Volatile Organic Compound)

**Disclaimer:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text
Ryze Chemie will not be held liable for any damage resulting from handling or from contact with the above product.

**End of safety data sheet**