



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## E4E VBP Fast Cure Part B

Version number: 5.0  
Replaces version of: 2026-01-09 (4)

Revision: 2026-02-10

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name **E4E VBP Fast Cure Part B**

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

Relevant identified uses general use  
Uses advised against Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin.

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

**Epoxy Depot 2700 Cumberland Bldg 4 Lebanon PA 17042**  
**United States** Telephone: 1-855-723-7699 e-mail: info@epoxydepotusa.com  
Website: Epoxydepotusa.com

#### 1.4 Emergency telephone number

Emergency information service CHEMTREC: 1-800-535-5053  
This number is only available during the following office hours: Mon-Fri 12:00 AM - 11:59 PM

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.10	acute toxicity (oral)	4	Acute Tox. 4	H302
A.2	skin corrosion/irritation	1	Skin Corr. 1	H314
A.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
A.4S	skin sensitization	1	Skin Sens. 1	H317
A.7	reproductive toxicity	1B	Repr. 1B	H360FD
B.6	flammable liquid	4	Flam. Liq. 4	H227

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. The product is combustible and can be ignited by potential ignition sources.

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger



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### - Pictograms

GHS05, GHS07, GHS08



### - Hazard statements

H227	Combustible liquid.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H360FD	May damage fertility. May damage the unborn child.

### - Precautionary statements

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dusts or mists.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/eye protection/face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P302+P352	If on skin: Wash with plenty of water.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403	Store in a well-ventilated place.
P405	Store locked up.
P501	Dispose of contents/container to industrial combustion plant.

### - Hazardous ingredients for labelling

1,2-Diaminocyclohexane, tetraethylenepentamine, Benzyl alcohol, 4-tert-butylphenol

### 2.3 Other hazards

This material is combustible, but will not ignite readily.

#### Hazards not otherwise classified

May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).

May be harmful if inhaled (GHS category 5: acutely toxic - inhalation).

Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).

#### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .



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### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Phenol, 4-nonyl-, branched	CAS No 84852-15-3	25 - < 50	Acute Tox. 4 / H302 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Repr. 2 / H361	
4-tert-butylphenol	CAS No 98-54-4	5 - < 10	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Repr. 2 / H361f	
tetraethylenepentamine	CAS No 112-57-2	5 - < 10	Acute Tox. 3 / H311 Skin Corr. 1 / H314 Eye Dam. 1 / H318 Skin Sens. 1 / H317	
Isophorone diamine isobutyraldimine	CAS No 54914-37-3	5 - < 10	Flam. Liq. 4 / H227	
1,3-Benzenedimethanamine	CAS No 1477-55-0	1 - < 5	Acute Tox. 4 / H332	
Benzyl alcohol	CAS No 100-51-6	1 - < 5	Acute Tox. 4 / H302 Acute Tox. 4 / H332	

### Remarks

For full text of abbreviations: see SECTION 16

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.



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### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

Water jet

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

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill



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Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.



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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)  
this information is not available

Relevant DNELs of components						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Phenol, 4-nonyl-, branched	84852-15-3	DNEL	0.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Phenol, 4-nonyl-, branched	84852-15-3	DNEL	1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Phenol, 4-nonyl-, branched	84852-15-3	DNEL	7.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Phenol, 4-nonyl-, branched	84852-15-3	DNEL	15 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
4-tert-butylphenol	98-54-4	DNEL	0.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
4-tert-butylphenol	98-54-4	DNEL	0.071 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Isophorone diamine isobutyraldimine	54914-37-3	DNEL	0.073 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
Isophorone diamine isobutyraldimine	54914-37-3	DNEL	0.073 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
1,3-Benzenedimethanamine	1477-55-0	DNEL	1.2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
1,3-Benzenedimethanamine	1477-55-0	DNEL	0.2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
1,3-Benzenedimethanamine	1477-55-0	DNEL	0.33 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Benzyl alcohol	100-51-6	DNEL	22 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Benzyl alcohol	100-51-6	DNEL	110 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Benzyl alcohol	100-51-6	DNEL	8 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Benzyl alcohol	100-51-6	DNEL	40 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects



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Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Phenol, 4-nonyl-, branched	84852-15-3	PNEC	0.61 µg/l	aquatic organisms	freshwater	short-term (single instance)
Phenol, 4-nonyl-, branched	84852-15-3	PNEC	0.4 µg/l	aquatic organisms	marine water	short-term (single instance)
Phenol, 4-nonyl-, branched	84852-15-3	PNEC	9.5 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Phenol, 4-nonyl-, branched	84852-15-3	PNEC	4.62 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Phenol, 4-nonyl-, branched	84852-15-3	PNEC	1.23 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Phenol, 4-nonyl-, branched	84852-15-3	PNEC	2.3 mg/kg	terrestrial organisms	soil	short-term (single instance)
4-tert-butylphenol	98-54-4	PNEC	0.01 mg/l	aquatic organisms	freshwater	short-term (single instance)
4-tert-butylphenol	98-54-4	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
4-tert-butylphenol	98-54-4	PNEC	1.5 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
4-tert-butylphenol	98-54-4	PNEC	0.27 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
4-tert-butylphenol	98-54-4	PNEC	0.027 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
4-tert-butylphenol	98-54-4	PNEC	0.25 mg/kg	terrestrial organisms	soil	short-term (single instance)
Isophorone diamine isobutyraldimine	54914-37-3	PNEC	0.147 mg/l	aquatic organisms	water	intermittent release
Isophorone diamine isobutyraldimine	54914-37-3	PNEC	0.015 mg/l	aquatic organisms	freshwater	short-term (single instance)
Isophorone diamine isobutyraldimine	54914-37-3	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Isophorone diamine isobutyraldimine	54914-37-3	PNEC	3.04 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Isophorone diamine isobutyraldimine	54914-37-3	PNEC	47.92 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Isophorone diamine isobutyraldimine	54914-37-3	PNEC	4.79 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Isophorone diamine isobutyraldimine	54914-37-3	PNEC	9.57 mg/kg	terrestrial organisms	soil	short-term (single instance)
1,3-Benzenedimethanamine	1477-55-0	PNEC	0.094 mg/l	aquatic organisms	freshwater	short-term (single instance)



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Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
1,3-Benzenedimethanamine	1477-55-0	PNEC	0.009 mg/l	aquatic organisms	marine water	short-term (single instance)
1,3-Benzenedimethanamine	1477-55-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1,3-Benzenedimethanamine	1477-55-0	PNEC	12.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1,3-Benzenedimethanamine	1477-55-0	PNEC	1.24 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
1,3-Benzenedimethanamine	1477-55-0	PNEC	2.44 mg/kg	terrestrial organisms	soil	short-term (single instance)
Benzyl alcohol	100-51-6	PNEC	1 mg/l	aquatic organisms	freshwater	short-term (single instance)
Benzyl alcohol	100-51-6	PNEC	0.1 mg/l	aquatic organisms	marine water	short-term (single instance)
Benzyl alcohol	100-51-6	PNEC	39 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Benzyl alcohol	100-51-6	PNEC	5.27 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Benzyl alcohol	100-51-6	PNEC	0.527 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Benzyl alcohol	100-51-6	PNEC	0.456 mg/kg	terrestrial organisms	soil	short-term (single instance)

### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.



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### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	not determined
Odor	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	191.4 °C at 1,013 hPa
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	0.8 vol% - 4.6 vol%
Flash point	70 °C at 101.5 kPa
Auto-ignition temperature	321 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	not determined
Solubility(ies)	not determined

### Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapor pressure	51.6 Pa at 20 °C
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### Density and/or relative density

Density	not determined
Relative vapour density	information on this property is not available



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Particle characteristics	not relevant (liquid)
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### 9.2 Other information

Information with regard to physical hazard classes	there is no additional information
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Other safety characteristics

Liquid content	82.18 %
Solid content	9.45 %
Temperature class (USA, acc. to NEC 500)	T2 (maximum permissible surface temperature on the equipment: 300°C)

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### 10.5 Incompatible materials

Oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).



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#### Acute toxicity

Harmful if swallowed.

GHS of the United Nations, annex 4: May be harmful in contact with skin or if inhaled.

#### - Acute toxicity estimate (ATE)

Oral >1,228 mg/kg

Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
Phenol, 4-nonyl-, branched	84852-15-3	oral	1,412 mg/kg
4-tert-butylphenol	98-54-4	oral	>2,000 mg/kg
tetraethylenepentamine	112-57-2	oral	3,990 mg/kg
tetraethylenepentamine	112-57-2	dermal	300 mg/kg
Isophorone diamine isobutyraldimine	54914-37-3	oral	4,150 mg/kg
1,3-Benzenedimethanamine	1477-55-0	dermal	>3,100 mg/kg
1,3-Benzenedimethanamine	1477-55-0	inhalation: vapor	11 mg/l/4h
1,3-Benzenedimethanamine	1477-55-0	inhalation: dust/mist	1.34 mg/l/4h
Benzyl alcohol	100-51-6	oral	500 mg/kg
Benzyl alcohol	100-51-6	inhalation: vapor	11 mg/l/4h
Benzyl alcohol	100-51-6	inhalation: dust/mist	>4.178 mg/l/4h

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

May damage the unborn child. May damage fertility.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard



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Shall not be classified as presenting an aspiration hazard.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Phenol, 4-nonyl-, branched	84852-15-3	LC50	0.05 mg/l	fish	96 h
Phenol, 4-nonyl-, branched	84852-15-3	EC50	109 µg/l	rainbow trout (Oncorhynchus mykiss)	96 h
4-tert-butylphenol	98-54-4	LC50	>1 mg/l	rainbow trout (Oncorhynchus mykiss)	96 h
4-tert-butylphenol	98-54-4	EC50	8.1 mg/l	daphnia magna	24 h
Isophorone diamine isobutyraldimine	54914-37-3	LC50	>100 mg/l	zebra fish (Danio rerio)	96 h
Isophorone diamine isobutyraldimine	54914-37-3	EC50	22.2 mg/l	daphnia magna	48 h
1,3-Benzenedimethanamine	1477-55-0	LC50	87.6 mg/l	japanese ricefish/medaka (Oryzias latipes)	96 h
1,3-Benzenedimethanamine	1477-55-0	EC50	35.1 mg/l	daphnia magna	24 h
Benzyl alcohol	100-51-6	LC50	≥100 mg/l	japanese ricefish/medaka (Oryzias latipes)	96 h
Benzyl alcohol	100-51-6	EC50	230 mg/l	daphnia magna	48 h

Aquatic toxicity (chronic) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Phenol, 4-nonyl-, branched	84852-15-3	LC50	>66.7 µg/l	aquatic invertebrates	28 d
Phenol, 4-nonyl-, branched	84852-15-3	EC50	27.7 µg/l	aquatic invertebrates	28 d
4-tert-butylphenol	98-54-4	EC50	2 mg/l	daphnia magna	21 d
Isophorone diamine isobutyraldimine	54914-37-3	EC50	3,024 mg/l	microorganisms	3 h
1,3-Benzenedimethanamine	1477-55-0	EC50	8.4 mg/l	daphnia magna	21 d



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Aquatic toxicity (chronic) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
1,3-Benzenedimethanamine	1477-55-0	LC50	6.77 mg/l	daphnia magna	21 d
Benzyl alcohol	100-51-6	LC50	770 mg/l	fathead minnow (Pimephales promelas)	1 h
Benzyl alcohol	100-51-6	EC50	65.5 mg/l	daphnia magna	21 d

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

### 14.1 UN number

DOT

UN 1760

IMDG-Code

UN 1760



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ICAO-TI	UN 1760
<b>14.2 UN proper shipping name</b>	
DOT	Corrosive liquid, n.o.s.
IMDG-Code	CORROSIVE LIQUID, N.O.S.
ICAO-TI	Corrosive liquid, n.o.s.
<b>14.3 Transport hazard class(es)</b>	
DOT	8
IMDG-Code	8
ICAO-TI	8
<b>14.4 Packing group</b>	
DOT	I
IMDG-Code	I
ICAO-TI	I
<b>14.5 Environmental hazards</b>	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	4-tert-butylphenol
<b>14.6 Special precautions for user</b>	
There is no additional information.	
<b>14.7 Transport in bulk according to IMO instruments</b>	
The cargo is not intended to be carried in bulk.	

### Information for each of the UN Model Regulations

#### Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's declaration UN1760, Corrosive liquid, n.o.s., 8, I, environmentally hazardous

Danger label(s) 8, fish and tree



Environmental hazards YES (hazardous to the aquatic environment)

Special provisions (SP) A7, B10, T14, TP2, TP27

ERG No 154

#### International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant YES (hazardous to the aquatic environment) (4-tert-butylphenol)

Danger label(s) 8, fish and tree



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Special provisions (SP)	274
Excepted quantities (EQ)	E0
Limited quantities (LQ)	0
EmS	F-A, S-B
Stowage category	B

### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	8



Special provisions (SP)	A3
Excepted quantities (EQ)	E0

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### Industry or sector specific available guidance(s)

##### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	3	major injury likely unless prompt action is taken and medical treatment is given
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

##### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).



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Category	Degree of hazard	Description
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information, including date of preparation or last revision

#### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
3.2		Description of the mixture: change in the listing (table)	yes
8.1		Relevant DNELs of components: change in the listing (table)	yes
8.1		Relevant PNECs of components: change in the listing (table)	yes
9.2	Liquid content: 90.12 %	Liquid content: 82.18 %	yes
9.2	Solid content: 10.51 %	Solid content: 9.45 %	yes
11.1		Acute toxicity estimate (ATE) of components: change in the listing (table)	yes
12.1		Aquatic toxicity (acute) of components: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic) of components: change in the listing (table)	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16		List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table)	yes

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation



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Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ED	Endocrine disruptor
EmS	Emergency Schedule
ERG No	Emergency Response Guidebook - Number
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
Repr.	Reproductive toxicity
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitization
vPvB	Very Persistent and very Bioaccumulative



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### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IM-DG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H227	Combustible liquid.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H360FD	May damage fertility. May damage the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.