

# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

## B&R Deo

Version number: GHS 6.0  
Replaces version of: 2023-01-03 (GHS 5)

Revision: 2024-07-03

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

#### 1.1 Product identifier

Trade name **B&R Deo**  
Product code(s) 95593

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

Relevant identified uses cleaning agent  
industrial uses  
professional uses  
Uses advised against Do not use for private purposes (household).

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

Tristar Cleaning Products UK Ltd.  
Unit 3 Ripley Close  
WF6 1TB Normanton, Wakefield  
United Kingdom  
Tel: +44 1924856390  
E-mail: info@tristargroup.uk

#### 1.4 Emergency telephone number

Emergency information service for emergency responders  
This number is only for medical emergencies.

Poison centre		
Country	Name	e-Mail
United Kingdom	National Poisons Information Service (NPIS)	director.birmingham.unit@npis.org

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.4S	skin sensitisation	1	Skin Sens. 1	H317

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

#### 2.2 Label elements

Labelling  
- Signal word warning  
- Pictograms

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GHS07



### - Hazard statements

H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

### - Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling iso eugenol

## 2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at 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	Notes
isopropyl alcohol	CAS No 67-63-0  EC No 200-661-7  Index No 603-117-00-0	10 – < 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	 	GHS-HC
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	CAS No 69011-36-5  EC No 931-138-8	1 – < 5	Acute Tox. 4 / H302 Eye Dam. 1 / H318	 	
phenyl ortho hydroxy benzoate	CAS No 2050-08-0	< 1	Acute Tox. 4 / H302 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	 	



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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
iso eugenol	CAS No 97-54-1  EC No 202-590-7  Index No 604-094-00-X	< 1	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1A / H317 STOT SE 3 / H335		
tridecene-2-nitryl	CAS No 22629-49-8	< 1	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		

### Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	Eye Dam. 1; H318: $C \geq 10\%$ Eye Irrit. 2; H319: $1\% \leq C < 10\%$	-	555.6 mg/kg	oral
phenyl ortho hydroxy ben- zoate	-	-	2,000 mg/kg	oral
iso eugenol	Skin Sens. 1A; H317: $C \geq 0.01\%$	-	1,500 mg/kg 1,912 mg/kg 11 mg/l/4h	oral dermal inhalation: vapour
tridecene-2-nitryl	-	M-factor (acute) = 10	-	

### Remarks

For full text of H-phrases: 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. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 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. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### 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.

#### Self-protection of the first aider

Provision of sufficient ventilation. Wear suitable protective clothing, gloves and eye/face protection.

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### 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: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Water jet

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

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. Co-ordinate 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. Self-contained breathing apparatus (SCBA). SCBA with a chemical protection suit only where personal (close) contact is likely.

## SECTION 6: Accidental release measures

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

For non-emergency personnel

Follow emergency procedures such as the need to evacuate the danger area or to consult an expert. Remove persons to safety. Provision of sufficient ventilation. Prevent skin contact. Avoid inhaling sprayed product. Collection and use of expertise.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

### 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

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.

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### 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. Use only in well-ventilated areas.

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

Control of effects

Protect from sunlight.

Protect against external exposure, such as

frost

- Packaging compatibilities

Keep only in original container.

### 7.3 Specific end use(s)

Cleaning agent. Industrial uses. Professional uses.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Notation	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Source
GB	propan-2-ol	67-63-0		WEL	400	999	500	1,250			EH40/2005

Notation

Ceiling-C  
STEL

ceiling value is a limit value above which exposure should not occur  
short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit); measured or calculated in relation to a reference period of 8 hours  
time-weighted average (unless otherwise specified)

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### Relevant DNELs of components of the mixture

Name of sub-stance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
isopropyl alcohol	67-63-0	DNEL	500 mg/m <sup>3</sup>	human, inhalat-ory	worker (industry)	chronic - systemic effects
isopropyl alcohol	67-63-0	DNEL	888 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Isotridecanol, eth-oxylated (>=2.5 EO)	69011-36-5	DNEL	294 mg/m <sup>3</sup>	human, inhalat-ory	worker (industry)	chronic - systemic effects
Isotridecanol, eth-oxylated (>=2.5 EO)	69011-36-5	DNEL	2,080 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
phenyl ortho hy-droxy benzoate	2050-08-0	DNEL	3.17 mg/m <sup>3</sup>	human, inhalat-ory	worker (industry)	chronic - systemic effects
phenyl ortho hy-droxy benzoate	2050-08-0	DNEL	0.9 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
iso eugenol	97-54-1	DNEL	6 mg/m <sup>3</sup>	human, inhalat-ory	worker (industry)	chronic - systemic effects
iso eugenol	97-54-1	DNEL	1.71 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
tridecene-2-nitryl	22629-49-8	DNEL	1.481 mg/m <sup>3</sup>	human, inhalat-ory	worker (industry)	chronic - systemic effects
tridecene-2-nitryl	22629-49-8	DNEL	0.84 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

### Relevant PNECs of components of the mixture

Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
isopropyl alcohol	67-63-0	PNEC	140.9 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
isopropyl alcohol	67-63-0	PNEC	140.9 mg/l	aquatic organ-isms	marine water	short-term (single instance)
isopropyl alcohol	67-63-0	PNEC	2,251 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
isopropyl alcohol	67-63-0	PNEC	552 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
isopropyl alcohol	67-63-0	PNEC	552 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
isopropyl alcohol	67-63-0	PNEC	28 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Isotridecanol, eth-oxylated (>=2.5 EO)	69011-36-5	PNEC	0.074 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
Isotridecanol, eth-oxylated (>=2.5 EO)	69011-36-5	PNEC	0.007 mg/l	aquatic organ-isms	marine water	short-term (single instance)
Isotridecanol, eth-oxylated (>=2.5 EO)	69011-36-5	PNEC	0.015 mg/l	aquatic organ-isms	water	intermittent re-lease

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### Relevant PNECs of components of the mixture

Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	PNEC	1.4 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	PNEC	0.604 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	PNEC	0.06 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	PNEC	0.1 mg/kg	terrestrial organisms	soil	short-term (single instance)
phenyl ortho hydroxy benzoate	2050-08-0	PNEC	0.77 µg/l	aquatic organisms	freshwater	short-term (single instance)
phenyl ortho hydroxy benzoate	2050-08-0	PNEC	0.077 µg/l	aquatic organisms	marine water	short-term (single instance)
phenyl ortho hydroxy benzoate	2050-08-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
phenyl ortho hydroxy benzoate	2050-08-0	PNEC	0.389 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
phenyl ortho hydroxy benzoate	2050-08-0	PNEC	0.039 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
phenyl ortho hydroxy benzoate	2050-08-0	PNEC	1.786 mg/kg	terrestrial organisms	soil	short-term (single instance)
iso eugenol	97-54-1	PNEC	4.7 µg/l	aquatic organisms	freshwater	short-term (single instance)
iso eugenol	97-54-1	PNEC	0.47 µg/l	aquatic organisms	marine water	short-term (single instance)
iso eugenol	97-54-1	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
iso eugenol	97-54-1	PNEC	0.047 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
iso eugenol	97-54-1	PNEC	0.005 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
iso eugenol	97-54-1	PNEC	0.007 mg/kg	terrestrial organisms	soil	short-term (single instance)
tridecene-2-nitryl	22629-49-8	PNEC	0 mg/l	aquatic organisms	freshwater	short-term (single instance)
tridecene-2-nitryl	22629-49-8	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
tridecene-2-nitryl	22629-49-8	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
tridecene-2-nitryl	22629-49-8	PNEC	0.263 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
tridecene-2-nitryl	22629-49-8	PNEC	0.026 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
tridecene-2-nitryl	22629-49-8	PNEC	0.68 mg/kg	terrestrial organisms	soil	short-term (single instance)

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### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection. Use safety goggle with side 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.

- Type of material

NBR: acrylonitrile-butadiene rubber

- Material thickness

> 0.35 mm

- Breakthrough times of the glove material

>480 minutes (permeation: level 6)

- Other protection measures

Protective clothing against liquid chemicals. Footwear protecting against chemicals. Preventive skin protection (barrier creams/ointments) is recommended. Take recovery periods for skin regeneration. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Type: ABEK (combined filters against gases and vapours, colour code: Brown/Grey/Yellow/Green).

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
Colour	colourless
Odour	Perfume
Melting point/freezing point	-89 °C
Boiling point or initial boiling point and boiling range	82 °C
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	2 vol% - 13 vol%
Flash point	38 °C



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Auto-ignition temperature	250 °C
pH (value)	7 (20 °C)
Kinematic viscosity	not determined

### Solubility(ies)

Water solubility	miscible in any proportion
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### Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	6 kPa (calculated value, referring to a component of the mixture)
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### Density and/or relative density

Density	0.98 g/cm <sup>3</sup> at 20 °C
Relative vapour density	information on this property is not available

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

Information with regard to physical hazard classes hazard classes acc. to GHS (physical hazards): not relevant

### Flammable liquids

- Sustained combustibility	NO (no sustained combustion was observed)
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### Other safety characteristics

Miscibility	Completely miscible with water.
VOC content	17.86 %

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

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### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

Oxidisers

### 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).

#### Classification acc. to GHS

##### Acute toxicity

Shall not be classified as acutely toxic.

#### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	oral	555.6 mg/kg
phenyl ortho hydroxy benzoate	2050-08-0	oral	2,000 mg/kg
iso eugenol	97-54-1	oral	1,500 mg/kg
iso eugenol	97-54-1	dermal	1,912 mg/kg
iso eugenol	97-54-1	inhalation: vapour	11 mg/l/4h

#### Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Isotridecanol, ethoxylated ( $\geq 2.5$ EO)	69011-36-5	oral	LD50	$>2,000$ mg/kg	rat
phenyl ortho hydroxy benzoate	2050-08-0	oral	LD50	2,000 mg/kg	rat
phenyl ortho hydroxy benzoate	2050-08-0	dermal	LD50	$>2,000$ mg/kg	rabbit
iso eugenol	97-54-1	oral	LD50	1,500 mg/kg	rat
iso eugenol	97-54-1	dermal	LD50	1,912 mg/kg	rabbit
tridecene-2-nitryl	22629-49-8	oral	LD50	$>4,165$ mg/kg	rat
tridecene-2-nitryl	22629-49-8	dermal	LD50	$>2,000$ mg/kg	rat

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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### Serious eye damage/eye irritation

Causes serious eye irritation.

### Respiratory or skin sensitisation

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

Shall not be classified as a reproductive toxicant.

### 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

Shall not be classified as presenting an aspiration hazard.

## 11.2 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
isopropyl alcohol	67-63-0	LC50	10,000 mg/l	fish	96 h
phenyl ortho hydroxy benzoate	2050-08-0	LC50	1.34 mg/l	fish	96 h
phenyl ortho hydroxy benzoate	2050-08-0	EC50	1.4 mg/l	aquatic invertebrates	24 h
phenyl ortho hydroxy benzoate	2050-08-0	ErC50	0.77 mg/l	algae	72 h
iso eugenol	97-54-1	LC50	3.6 mg/l	fish	96 h
iso eugenol	97-54-1	EC50	3 mg/l	aquatic invertebrates	48 h
iso eugenol	97-54-1	ErC50	5.6 mg/l	algae	72 h
tridecene-2-nitryl	22629-49-8	LC50	>0.164 mg/l	fish	96 h
tridecene-2-nitryl	22629-49-8	EC50	10.84 µg/l	aquatic invertebrates	48 h
tridecene-2-nitryl	22629-49-8	ErC50	106 µg/l	algae	72 h

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### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
isopropyl alcohol	67-63-0	LC50	>10,000 mg/l	aquatic invertebrates	24 h

## 12.2 Persistence and degradability

### Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
isopropyl alcohol	67-63-0	oxygen depletion	53 %	5 d		ECHA
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	DOC removal	82 %	28 d		ECHA
phenyl ortho hydroxy benzoate	2050-08-0	oxygen depletion	32 %	2 d		ECHA
iso eugenol	97-54-1	oxygen depletion	79 %	28 d		ECHA
tridecene-2-nitryl	22629-49-8	carbon dioxide generation	88 %	29 d		ECHA

## 12.3 Bioaccumulative potential

Data are not available.

### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
isopropyl alcohol	67-63-0		0.05 (20 °C)	
Isotridecanol, ethoxylated (>=2.5 EO)	69011-36-5	232.5		
phenyl ortho hydroxy benzoate	2050-08-0	1,136	4.4 (30 °C)	
iso eugenol	97-54-1		2.1 (25 °C)	
tridecene-2-nitryl	22629-49-8		>6 (35 °C)	

## 12.4 Mobility in soil

Data are not available.

## 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. 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) at a concentration of  $\geq 0,1\%$ .

## 12.7 Other adverse effects

Data are not available.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

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

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 or ID number                                  | not subject to transport regulations                                  |
| 14.2 | UN proper shipping name                                 | not relevant  |
| 14.3 | Transport hazard class(es)                              | none  |
| 14.4 | Packing group   | not assigned  |
| 14.5 | Environmental hazards                                   | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 | Special precautions for user                            | There is no additional information.                                   |
| 14.7 | Maritime transport in bulk according to IMO instruments | The cargo is not intended to be carried in bulk.                      |

#### Information for each of the UN Model Regulations

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

Not subject to IMDG.

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

Not subject to ICAO-IATA.

### SECTION 15: Regulatory information

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

##### Relevant provisions of the European Union (EU)

None of the ingredients are listed.

##### Deco-Paint Directive

VOC content	15.33 %
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##### Industrial Emissions Directive (IED)

VOC content	17.86 %
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##### Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

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### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

### Water Framework Directive (WFD)

none of the ingredients are listed

### Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

### National regulations (GB)

#### List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

#### Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)

Name of substance	Name acc. to inventory	CAS No	No
B&R Deo	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3
isopropyl alcohol	flammable / pyrophoric		40

#### National inventories

Country	Inventory	Status
EU	REACH Reg.	not all ingredients are listed
US	TSCA	not all ingredients are listed

#### Legend

REACH Reg. REACH registered substances  
TSCA Toxic Substance Control Act

## 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## SECTION 16: Other information

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

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.1		Classification acc. to GHS: change in the listing (table)	yes
2.2		- Hazard statements: change in the listing (table)	yes
2.2		- Precautionary statements: change in the listing (table)	yes
2.2		- Supplemental hazard information: change in the listing (table)	yes
2.2		- Hazardous ingredients for labelling: iso eugenol	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$ .	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Remarks: For full text of H-phrases: see SECTION 16.	yes
5.2	Hazardous combustion products: Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )	Hazardous combustion products: Nitrogen oxides (NO <sub>x</sub> ), Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )	yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes
9.2	VOC content: 18.39 %	VOC content: 17.86 %	yes
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
11.1		Acute toxicity of components of the mixture: change in the listing (table)	yes
11.1	Respiratory or skin sensitisation: Contains Lili <sup>al</sup> . May produce an allergic reaction.	Respiratory or skin sensitisation: May cause an allergic skin reaction.	yes
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes
12.2		Degradability of components of the mixture: change in the listing (table)	yes
12.3		Bioaccumulative potential of components of the mixture: change in the listing (table)	yes
12.5	Results of PBT and vPvB assessment: Data are not available.	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$ .	yes
12.6	Endocrine disrupting properties: None of the ingredients are listed.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$ .	yes
15.1	VOC content: 15.66 %	VOC content: 15.33 %	yes
15.1	VOC content: 18.39 %	VOC content: 17.86 %	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
15.1		National regulations (GB)	yes
15.1		List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list: none of the ingredients are listed	yes
15.1		Restrictions according to GB REACH, Annex 17	yes
15.1		Dangerous substances with restrictions (GB REACH, Annex 17): change in the listing (table)	yes
15.1		National inventories: change in the listing (table)	yes
16		Abbreviations and acronyms: change in the listing (table)	yes

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
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
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye



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Abbr.	Descriptions of used abbreviations
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
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
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
SCBA	Self-contained breathing apparatus
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

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### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). 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
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### Disclaimer

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