

Safety Data Sheet

170
Version 6.0

Ortec - contact adhesive
Revision date Jan 21, 2021

Print date Jan 21, 2021

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

1.1 Product identifier

170 Ortec - contact adhesive

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

Relevant identified uses

Adhesives, sealants

1.3 Details of the supplier of the safety data sheet

Supplier

Renia Gesellschaft mbH
Ostmerheimer Straße 516 Telephone: +492216307990
51109 Köln E-mail: info@renia.com
Deutschland Website: www.renia.com

Department responsible for information

E-mail (competent person) labor@renia.com

1.4 Emergency telephone number

Emergency telephone number Grimme: +49-221-630799-17
Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

* Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

- * Flam. Liq. 2; flammable liquids; H225 Highly flammable liquid and vapour.
- * Eye Irrit. 2; Serious eye damage/eye irritation; H319 Causes serious eye irritation.
- * STOT SE 3 Narcotic effects; STOT-single exposure; H336 May cause drowsiness or dizziness.
- * Skin Irrit. 2; Skin corrosion/irritation; H315 Causes skin irritation.
- * Aquatic Acute 2; Hazardous to the aquatic environment; H401 Toxic to aquatic life.
- * Aquatic Chronic 2; Hazardous to the aquatic environment; H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



* Signal word

Danger

* Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H315 Causes skin irritation.
H411 Toxic to aquatic life with long lasting effects.

* Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.

Safety Data Sheet

170
Version 6.0

Ortec - contact adhesive
Revision date Jan 21, 2021

Print date Jan 21, 2021

P261	Avoid breathing vapours.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and 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.
P312	Call a POISON CENTER if you feel unwell.
P332 + P313	If skin irritation 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.
P370 + P378	In case of fire: Use extinguishing powder or sand to extinguish.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to industrial incineration plant.

* Hazard components for labelling

Ethyl acetate

2.3 Other hazards

No information available.

SECTION 3: Composition / information on ingredients

3.2 Mixtures

* Description

polychloroprene adhesive with modified synthetic resins and stabilizers in a mixture of organic solvents.

Hazardous ingredients

*

CAS No. EC No. INDEX No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	weight-%
141-78-6 205-500-4 607-022-00-5	Ethyl acetate 01-2119475103-46 Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	30,0 < 35,0
- 921-024-6 649-328-00-1	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 01-2119475514-35 Flam. Liq. 2 H225 / Asp. Tox. 1 H304 / Skin Irrit. 2 H315 / STOT SE 3 H336 / Aquatic Chronic 2 H411	22,0 < 25,0
110-82-7 203-806-2 601-017-00-1	cyclohexane 01-2119463273-41-0000 Flam. Liq. 2 H225 / Asp. Tox. 1 H304 / Skin Irrit. 2 H315 / STOT SE 3 H336 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	22,0 < 25,0
8050-09-7 232-475-7 650-015-00-7	rosin colophony 01-2119480418-32 Skin Sens. 1 H317	0,7 < 1,0
128-37-0 204-881-4 -	2,6-di-tert-butyl-p-cresol 01-2119555270-46 Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	0,1 < 0,4

* Remark

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

Safety Data Sheet

170
Version 6.0

Ortec - contact adhesive
Revision date Jan 21, 2021

Print date Jan 21, 2021

4.1 Description of first aid measures

* General information

Remove affected person from the danger area and lay down.

* Following inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

* Following skin contact

Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

* After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

* After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

* Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

* Symptoms

Allergic reactions.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Transport affected person in lying position, in case of shortness of breath in half-sitting position. Where appropriate artificial ventilation.

SECTION 5: Firefighting measures

5.1 Extinguishing media

* Suitable extinguishing media

Carbon dioxide (CO₂), alcohol resistant foam, Extinguishing powder, ABC-powder, spray mist, (water), Dry sand.

* Unsuitable extinguishing media

Full water jet. Strong water jet.

5.2 Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air. In case of fire may be liberated: Hydrogen chloride (HCl). Burning produces heavy smoke.

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Hazardous combustion products.

5.4 Additional information

Suppress gases/vapours/mists with water spray jet. Use water spray jet to protect personnel and to cool endangered containers. Remove product from area of fire. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin. Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Cover drains.

6.3 Methods and material for containment and cleaning up

- * Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

Safety Data Sheet

170
Version 6.0

Ortec - contact adhesive
Revision date Jan 21, 2021

Print date Jan 21, 2021

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

* **Advices on safe handling**

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

* **Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Before starting work, apply solvent-resistant skincare preparations.

* **Further information**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Vapours/aerosols must be exhausted directly at the point of origin. Take precautionary measures against static discharge.

7.2 Conditions for safe storage, including any incompatibilities

* **Requirements for storage rooms and vessels**

Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed. Store in a well-ventilated and dry room at temperatures between 10 °C and 30 °C. Ensure adequate ventilation of the storage area.

* **Hints on joint storage**

Do not store together with: Oxidizing agent, Pyrophoric or self-heating substances. Store packaging and ignitable materials separately. Keep away from food, drink and animal feedingstuffs.

* **Further information on storage conditions**

Floors should be impervious, resistant to liquids and easy to clean. Store small packages in a suitable, robust cabinet.

7.3 Specific end use(s)

Adhesives, sealants, Roller application or brushing of adhesive and other coating.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

* **Occupational exposure limit values**

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
128-37-0	2,6-di-tert-butyl-p-cresol	ACGIH	2 / - (-) mg/m ³
128-37-0	2,6-di-tert-butyl-p-cresol	NIOSH	10 / - (-) mg/m ³
* 141-78-6	Ethyl acetate	ACGIH	1.440 / - (-) mg/m ³
* 141-78-6	Ethyl acetate	NIOSH	1.400 / - (-) mg/m ³
* 141-78-6	Ethyl acetate	OSHA	1.400 / - (-) mg/m ³
110-82-7	cyclohexane	ACGIH	344 / - (-) mg/m ³
110-82-7	cyclohexane	NIOSH	1.050 / - (-) mg/m ³
110-82-7	cyclohexane	OSHA	1.050 / - (-) mg/m ³

Additional information

Long-term: long-term occupational exposure limit value
short-term: short-term occupational exposure limit value

* **Biological limit values**

No data available

* **DNEL worker**

CAS No.	Substance name	DNEL type	DNEL value
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Safety Data Sheet

170
Version 6.0

Ortec - contact adhesive
Revision date Jan 21, 2021

Print date Jan 21, 2021

128-37-0	2,6-di-tert-butyl-p-cresol	DNEL long-term inhalative (systemic)	5,8 mg/m ³
128-37-0	2,6-di-tert-butyl-p-cresol	DNEL long-term dermal (systemic)	8,3 mg/kg bw/day
141-78-6	Ethyl acetate	DNEL long-term inhalative (systemic)	1,468 mg/l
141-78-6	Ethyl acetate	DNEL acute inhalative (local)	1,468 mg/l
141-78-6	Ethyl acetate	DNEL long-term dermal (systemic)	63 mg/kg
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term dermal (systemic)	773 mg/kg
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term inhalative (systemic)	2.035 mg/m ³
110-82-7	cyclohexane	DNEL long-term dermal (systemic)	2.016 mg/kg
110-82-7	cyclohexane	DNEL long-term inhalative (systemic)	0,7 mg/l
8050-09-7	rosin colophony	DNEL long-term inhalative (systemic)	117 mg/m ³
8050-09-7	rosin colophony	DNEL long-term dermal (systemic)	17 mg/kg bw/day

*

DNEL Consumer

CAS No.	Substance name	DNEL type	DNEL value
128-37-0	2,6-di-tert-butyl-p-cresol	DNEL long-term inhalative (systemic)	1,74 mg/m ³
128-37-0	2,6-di-tert-butyl-p-cresol	DNEL long-term dermal (systemic)	5 mg/kg bw/day
141-78-6	Ethyl acetate	DNEL acute inhalative (systemic)	0,734 mg/l
141-78-6	Ethyl acetate	DNEL long-term inhalative (local)	0,734 mg/l
141-78-6	Ethyl acetate	DNEL long-term dermal (systemic)	37 mg/kg
141-78-6	Ethyl acetate	DNEL long-term inhalative (systemic)	0,037 mg/l
141-78-6	Ethyl acetate	DNEL long-term oral (repeated)	4,5 mg/kg
141-78-6	Ethyl acetate	DNEL acute inhalative (local)	0,367 mg/l
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term dermal (systemic)	699 mg/kg
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term inhalative (systemic)	608 mg/m ³
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term oral (repeated)	699 mg/kg
110-82-7	cyclohexane	DNEL long-term oral (repeated)	59,4 mg/kg
110-82-7	cyclohexane	DNEL long-term dermal (systemic)	699 mg/kg
110-82-7	cyclohexane	DNEL long-term inhalative (systemic)	0,7 mg/l

Safety Data Sheet

170
Version 6.0

Ortec - contact adhesive
Revision date Jan 21, 2021

Print date Jan 21, 2021

8050-09-7	rosin colophony	DNEL long-term inhalative (systemic)	35 mg/m ³
8050-09-7	rosin colophony	DNEL long-term dermal (systemic)	10 mg/kg bw/day
8050-09-7	rosin colophony	DNEL long-term oral (repeated)	10 mg/kg bw/day

* PNEC

CAS No.	Substance name	PNEC type	PNEC Value
128-37-0	2,6-di-tert-butyl-p-cresol	PNEC soil, freshwater	1,04 mg/kg dw
128-37-0	2,6-di-tert-butyl-p-cresol	PNEC sewage treatment plant (STP)	100 mg/l
128-37-0	2,6-di-tert-butyl-p-cresol	PNEC sediment, freshwater	1,29 mg/kg dw
128-37-0	2,6-di-tert-butyl-p-cresol	PNEC Secondary Poisoning	16,7 mg/kg
128-37-0	2,6-di-tert-butyl-p-cresol	PNEC aquatic, marine water	0,4 µg/l
128-37-0	2,6-di-tert-butyl-p-cresol	PNEC aquatic, freshwater	4 µg/l
128-37-0	2,6-di-tert-butyl-p-cresol	PNEC aquatic, intermittent release	4 µg/l
141-78-6	Ethyl acetate	PNEC aquatic, freshwater	0,26 mg/l
141-78-6	Ethyl acetate	PNEC aquatic, marine water	0,026 mg/l
141-78-6	Ethyl acetate	PNEC sediment, freshwater	0,34 mg/kg
141-78-6	Ethyl acetate	PNEC sediment, marine water	0,034 mg/kg
141-78-6	Ethyl acetate	PNEC soil, freshwater	0,22 mg/kg
8050-09-7	rosin colophony	PNEC aquatic, freshwater	0,002 mg/l
8050-09-7	rosin colophony	PNEC aquatic, marine water	0 mg/l
8050-09-7	rosin colophony	PNEC sewage treatment plant (STP)	1.000 mg/l
8050-09-7	rosin colophony	PNEC sediment, freshwater	0,007 mg/kg dw
8050-09-7	rosin colophony	PNEC sediment, marine water	0,001 mg/kg dw
8050-09-7	rosin colophony	PNEC soil, freshwater	0 mg/kg dw

8.2 Exposure controls

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

* Personal protection equipment

* Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Combination filtering device (EN 14387) Use the following filter types for cleaning waste gases:

* Hand protection

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: >= 0,4 mm

* Breakthrough time (maximum wearing time): >= 480 min

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.

* Eye/face protection

Wear closely fitting protective glasses in case of splashes.

* Body protection

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

* Environmental exposure controls

Safety Data Sheet

170
Version 6.0

Ortec - contact adhesive
Revision date Jan 21, 2021

Print date Jan 21, 2021

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	light yellow

Safety characteristics

Odour	characteristic
Odour threshold	not determined
* pH at 20 °C:	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	65 °C
Flash point	-18 °C
Evaporation rate at 20°C	not determined
Burning time (s)	not applicable
Lower explosion limit at 20°C	1 Vol-%
Upper explosion limit at 20°C	11,5 Vol-%
Vapour pressure at 20°C	175 mbar
Density at 20°C	0,827 kg/l
Water solubility (g/L) at 20°C	not determined
Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	200 °C
Decomposition temperature	not determined
Viscosity	1.200 mPas
Explosive properties	not relevant
Oxidising properties	not relevant

9.2 Other information

not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3 Possibility of hazardous reactions

Gases / vapours, highly flammable. Vapours can form explosive mixtures with air.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Decomposition temperature (°C): not determined

10.5 Incompatible materials

Acid, concentrated, Oxidising agent, strong.

10.6 Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

Safety Data Sheet

170
Version 6.0

Ortec - contact adhesive
Revision date Jan 21, 2021

Print date Jan 21, 2021

SECTION 11: Toxicological information

11.1 Information on toxicological effects

* **Acute toxicity**
Based on available data, the classification criteria are not met.

2,6-di-tert-butyl-p-cresol

LD50: oral (Rat): > 5.000 mg/kg; (OECD 401)

LD50: dermal (Rat): > 5.000 mg/kg; (OECD 402)

Ethyl acetate

LD50: oral (Rat): > 5.620 mg/kg

LD50: dermal (Rabbit): > 18.000 mg/kg

LC50: inhalative (Rat): = 56 mg/l (4 h)

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

LD50: (Rat): > 5.000 mg/kg; (OECD 401)

LC50: (Rat): > 20 mg/l (4 h); (OECD 403)

LD50: dermal (Rabbit): > 2.000 mg/kg; (OECD 402)

cyclohexane

LD50: (Rat): > 5.000 mg/kg

LC50: inhalative (Rat): > 32,88 mg/l (4 h); (OECD 403)

LD50: dermal (Rabbit): > 2.000 mg/kg; (OECD 402)

rosin colophony

LD50: (Rat): > 2.000 Mg/kg KG

LD50: dermal (Rabbit): > 2.000 Mg/kg KG

* **Skin corrosion/irritation**
Causes skin irritation.

* **Serious eye damage/eye irritation**
Causes serious eye irritation.

* **Respiratory or skin sensitisation**
Based on available data, the classification criteria are not met.

* **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Based on available data, the classification criteria are not met.

* **STOT-single exposure**
May cause drowsiness or dizziness.

* **STOT-repeated exposure**
Based on available data, the classification criteria are not met.

* **Aspiration hazard**
Based on available data, the classification criteria are not met.

* **Practical experience/human evidence**
Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Safety Data Sheet

170
Version 6.0

Ortec - contact adhesive
Revision date Jan 21, 2021

Print date Jan 21, 2021

Acute (short-term) fish toxicity

2,6-di-tert-butyl-p-cresol

LC0: (Brachydanio rerio (zebra-fish)): > 0,57 mg/l (96 h)

Ethyl acetate

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 230 mg/l (96 h)

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 11,4 mg/l (96 h)

cyclohexane

LC50: (Pimephales promelas (fathead minnow)): = 4,53 mg/l (96 h)

rosin colophony

LC50: (Pimephales promelas (fathead minnow)): = 1,7 mg/l (96 h)

Method: OECD 203

Acute (short-term) toxicity to aquatic algae and cyanobacteria

2,6-di-tert-butyl-p-cresol

IC50: (Scenedesmus subspicatus): > 0,4 mg/l (72 h)

Ethyl acetate

LC50: (Desmodesmus subspicatus): = 5.600 mg/l (48 h)

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

EL50: (Pseudokirchneriella subcapitata): = 30 < x > 100 mg/l (72 h)

cyclohexane

ErC50: (Desmodesmus subspicatus): > 4,425 mg/l (96 h)

rosin colophony

ErC50: (Pseudokirchneriella subcapitata): = 39,6 mg/l (72 h)

Method: OECD 201

Acute (short-term) toxicity to crustacea

2,6-di-tert-butyl-p-cresol

EC50 (Daphnia magna (Big water flea)): = 0,61 mg/l (48 h)

Ethyl acetate

EC50 (Daphnia magna (Big water flea)): = 165 mg/l (48 h)

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

EL50: (Daphnia magna (Big water flea)): = 3 mg/l (48 h)

cyclohexane

EC50 (Daphnia magna (Big water flea)): = 0,9 mg/l (48 h)

rosin colophony

EC50 (Daphnia magna (Big water flea)): = 1,6 mg/l (48 h)

Method: OECD 202

12.2 Persistence and degradability

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

Biodegradation; (Activated sludge) = 81 % (28 d)

Method: OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D

Readily biodegradable (according to OECD criteria).

cyclohexane

Biodegradation; (Activated sludge) = 77 % (28 d)

Method: OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D

Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

cyclohexane

Bioconcentration factor (BCF), (Pimephales promelas (fathead minnow)) = 167

* Method: calculated

No indication of bioaccumulation potential.

Partition coefficient: n-octanol/water = 0,68

12.4 Mobility in soil

Safety Data Sheet

170
Version 6.0

Ortec - contact adhesive
Revision date Jan 21, 2021

Print date Jan 21, 2021

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

* Product/Packaging disposal

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

* Waste codes/waste designations according to EWC/AVV

* 080409* - Waste adhesives and sealants containing organic solvents or other dangerous substances

* Other disposal recommendations

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1 UN number

1133

14.2 UN proper shipping name

Land transport (ADR/RID)

KLEBSTOFFE (enthält Ethylacetat, Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan)

Inland waterway craft (ADN)

KLEBSTOFFE (enthält Ethylacetat, Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan)

Sea transport (IMDG)

Adhesives (contain Ethyl acetate, Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane, cyclohexane)

Air transport (ICAO-TI / IATA-DGR)

Adhesives (contain Ethyl acetate, Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane)

14.3 Transport hazard class(es)

Land transport (ADR/RID)	3
Inland waterway craft (ADN)	3
Sea transport (IMDG)	3
Air transport (ICAO-TI / IATA-DGR)	3

14.4 Packing group

Land transport (ADR/RID)	II for packages < = 450 litres: III
Inland waterway craft (ADN)	II
Sea transport (IMDG)	II for packages < = 450 litres: III
Air transport (ICAO-TI / IATA-DGR)	II for packages < 30 litres: III

14.5 Environmental hazards

Land transport (ADR/RID)	ENVIRONMENTALLY HAZARDOUS
Sea transport (IMDG)	Marine pollutant / cyclohexane

14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling see parts 6 - 8

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No transport as bulk according to IBC Code.

14.8 Additional information

Land transport (ADR/RID)

Classification code: F1

Safety Data Sheet

170
Version 6.0

Ortec - contact adhesive
Revision date Jan 21, 2021

Print date Jan 21, 2021

Limited quantity (LQ): 5 Liter
tunnel restriction code: D/E
for packages < = 450 litres: E
transport category: 2
Hazard identification number (Kemler No.): 33

Inland waterway craft (ADN)

Classification code: F1
Limited quantity (LQ): 5 Liter

Sea transport (IMDG)

Limited quantity (LQ): 5 Liter
EmS-No.: F-E, S-D

Air transport (ICAO-TI / IATA-DGR)

Limited quantity (LQ): 1 Liter
Verpackungsanweisung: Y341
pro Versandstück - Passenger: 5 Liter
Verpackungsanweisung - Passenger: 353
pro Versandstück - Cargo: 60 Liter
Verpackungsanweisung - Cargo: 364

SECTION 15: Regulatory information

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

* EU legislation

* Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

* Directive 2010/75/EU on industrial emissions

* VOC-value (in g/L): 647,429 g/l

* Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

Hazard categories / Named dangerous substances

E2 Hazardous to the aquatic environment in Category Chronic 2

Quantity 1: 200t; Quantity 2: 500t

P5c Flammable liquids

Quantity 1: 5.000t; Quantity 2: 50.000t

* National regulations

15.2 Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

REACH No.	Substance name
01-2119555270-46	2,6-di-tert-butyl-p-cresol
01-2119475103-46	Ethyl acetate
01-2119475514-35	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
01-2119463273-41-0000	cyclohexane
01-2119480418-32	rosin colophony

SECTION 16: Other information

Relevant R-, H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Safety Data Sheet

170
Version 6.0

Ortec - contact adhesive
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* **Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

Flam. Liq. 2 On basis of test data.

Eye Irrit. 2 Calculation method.

STOT SE 3 Narcotic
effects Calculation method.

Skin Irrit. 2 Calculation method.

* Aquatic Acute 2 Calculation method.

* Aquatic Chronic 2 Calculation method.

* **Abbreviations and acronyms**

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

* **Indication of changes**

* Data changed compared with the previous version