

Safety Data Sheet

COMMISSION REGULATION (EU) No 2015/830 of 1
June 2015 amending Annex II of Regulation (EU) No
453/2010

Printing date 19.02.2020

Revision: 19.02.2020

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

- **Trade name:** AMBRETTOLIDE
- **CAS Number:**
28645-51-4
- **EC number:**
249-120-7
- **Registration number REACH registration number:** 01-2120103324-74-0005
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
This product is only intended for using as an ingredient in the manufacturing of mixtures.
- **Identified Use**
 - 1) **Identified Use (IU) name**
Formulation of compounds - In a mixture
 - **Sector of end use (SU):**
SU 3 (Industrial Uses): SU10 (Formulation (mixing) of preparations and/or re-packaging (excluding alloys))
 - **Process category (PROC):**
 - PROC1: Use in closed process, no likelihood of exposure
 - PROC3: Use in closed batch process (synthesis or formulation)
 - PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
 - PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
 - PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
 - PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
 - PROC15: Use as laboratory agent
 - **Environmental release category (ERC):**
ERC2: Formulation of preparations
Subsequent service life relevant for that use?
No
 - 2) **Formulation of end-products - In a mixture**
 - **Sector of end use (SU):**
SU 3 (Industrial Uses): SU10 (Formulation (mixing) of preparations and/or re-packaging (excluding alloys))
 - **Process category (PROC):**
 - PROC1: Use in closed process, no likelihood of exposure
 - PROC3: Use in closed batch process (synthesis or formulation)
 - PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
 - PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
 - PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
 - PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
 - PROC14: Production of preparations or articles by tableting, compression, extrusion,

(Contd. on page 2)

Safety Data Sheet

COMMISSION REGULATION (EU) No 2015/830 of 1
June 2015 amending Annex II of Regulation (EU) No
453/2010

Printing date 19.02.2020

Revision: 19.02.2020

Trade name: **AMBRETTOLIDE**

(Contd. of page 1)

pelletisation

PROC15: Use as laboratory agent

- Environmental release category (ERC):

ERC2: Formulation of preparations

Subsequent service life relevant for that use?

No

3) Industrial end- use of washing - In a mixture

- Sector of end use (SU):

SU 3 (Industrial Uses)

- Process category (PROC):

PROC1: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC4: Use in batch and or other process (synthesis) where opportunity for exposure arises

PROC7: Industrial spraying

PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

- Environmental release category (ERC):

ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

- Market sector by type of chemical product:

PC35: Washing and cleaning products (including solvent based products)

Subsequent service life relevant for that use?

No

4) Professional end-use of washing and cleaning products- In a mixture

- Sector of end use (SU):

SU 22 (Professional Uses)

- Process category (PROC):

PROC1: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC4: Use in batch and or other process (synthesis) where opportunity for exposure arises

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC10: Roller application or brushing

PROC11: Nonindustrial spraying

PROC13: Treatment of articles by dipping and pouring

- Environmental release category (ERC):

ERC8a: Wide dispersive indoor use of processing aids in open systems

- Market sector by type of chemical product:

PC35: Washing and cleaning products (including solvent based products)

(Contd. on page 3)

Safety Data Sheet

COMMISSION REGULATION (EU) No 2015/830 of 1
June 2015 amending Annex II of Regulation (EU) No
453/2010

Printing date 19.02.2020

Revision: 19.02.2020

Trade name: AMBRETTOLIDE

(Contd. of page 2)

Subsequent service life relevant for that use? No

5) *Professional end-use of polishes and wax blends -In a mixture*

- *Sector of end use (SU):*

SU 22 (Professional Uses)

- *Process category (PROC):*

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC10: Roller application or brushing

PROC11: Nonindustrial spraying

- *Environmental release category (ERC):*

ERC8a: Wide dispersive indoor use of processing aids in open systems

- *Market sector by type of chemical product:*

PC31: Polishes and wax blends

Subsequent service life relevant for that use? No

6) *Consumer end- use of washing and cleaning products - In a mixture*

- *Sector of end use (SU):*

SU 21 (Consumer Uses: Private households)

- *Product category (PC):*

PC35: Washing and cleaning products (including solvent based products)

- *Environmental release category (ERC):*

ERC8a: Wide dispersive indoor use of processing aids in open systems

ERC8d: Wide dispersive outdoor use of processing aids in open systems

Subsequent service life relevant for that use? No

7) *Consumer end- use of air care products - In a mixture*

- *Sector of end use (SU):*

SU 21 (Consumer Uses: Private households)

- *Product category (PC):*

PC3: Air care products

- *Environmental release category (ERC):*

ERC8a: Wide dispersive indoor use of processing aids in open systems

Subsequent service life relevant for that use? No

8) *Consumer end-use of biocides -*

- *Sector of end use (SU):*

SU 21 (Consumer Uses: Private households)

- *Product category (PC):*

PC8: Biocidal products

- *Environmental release category (ERC):*

ERC8a: Wide dispersive indoor use of processing aids in open systems

ERC8d: Wide dispersive outdoor use of processing aids in open systems

Subsequent service life relevant for that use?

No

(Contd. on page 4)

Safety Data Sheet

COMMISSION REGULATION (EU) No 2015/830 of 1 June 2015 amending Annex II of Regulation (EU) No 453/2010

Printing date 19.02.2020

Revision: 19.02.2020

Trade name: AMBRETTOLIDE

(Contd. of page 3)

9) *Consumer end-use of polishes and wax blends - In a mixture*

- Sector of end use (SU):

SU 21 (Consumer Uses: Private households)

- Product category (PC):

PC31: Polishes and wax blends

- Environmental release category (ERC):

ERC8a: Wide dispersive indoor use of processing aids in open systems

Subsequent service life relevant for that use?

No

10) *Consumer (and Professional) end-use of cosmetics - In a mixture*

- Sector of end use (SU):

SU 21 (Consumer Uses: Private households)/SU 22 (Professional Uses)

- Product category (PC):

PC28: Perfumes, fragrances

PC39: Cosmetic, personal care products

- Environmental release category (ERC):

ERC8a: Wide dispersive indoor use of processing aids in open systems

Subsequent service life relevant for that use?

No

11) *Intermediate Use resulting in manufacture of another substance - As such (substance itself)*

- Sector of end use (SU):

SU 3 (Industrial Uses): SU9 (Manufacture of fine chemicals)

- Process category (PROC):

PROC1: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional controlled exposure

PROC3: Use in closed batch process (synthesis or formulation)

PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC15: Use as laboratory agent

- Environmental release category (ERC):

ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)

- Product category (PC):

PC19: Intermediates

Subsequent service life relevant for that use?

No

· **Application of the substance / the mixture**

This material is used as an ingredient in the manufacturing of aromatic bases.

(Contd. on page 5)

IN

Safety Data Sheet

COMMISSION REGULATION (EU) No 2015/830 of 1
June 2015 amending Annex II of Regulation (EU) No
453/2010

Printing date 19.02.2020

Revision: 19.02.2020

Trade name: **AMBRETTOLIDE**

(Contd. of page 4)

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

R S SHELLS

Corporate office: 156A, Lenin Sarani, Room No: 203, 2nd Floor,
Kolkata – 700013; West Bengal, INDIA

Factory: Vill :- Balarampur, P.O. Rangadih

Dist :- Purulia - 723143, West Bengal

· **Further information obtainable from:**

Telephone: +91-33-22159750

Fax: + 91-33-22150685

E-mail: sales@rsshells.com; rsshells@yahoo.com

Only Representative details:

Sustainability Support Services (Europe) AB,

Ideon Science Park, Scheelevägen 17,

Beta 5, 22370 Lund,

Sweden

· **1.4 Emergency telephone number:**

Emergency telephone number:

Telephone number of EU importer:

Opening hours:

Other comments (e.g. language(s) of the phone service): English

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

The substance is not classified, according to the CLP regulation.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008** Not applicable.

· **Hazard pictograms** Void

· **Signal word** Not applicable.

· **Hazard statements** Not applicable.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

IN

(Contd. on page 6)

Safety Data Sheet

COMMISSION REGULATION (EU) No 2015/830 of 1
June 2015 amending Annex II of Regulation (EU) No
453/2010

Printing date 19.02.2020

Revision: 19.02.2020

Trade name: **AMBRETTOLIDE**

(Contd. of page 5)

SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description**
28645-51-4 Oxacycloheptadec-10-ene-2-one
- **Identification number(s)**
- **EC number:** 249-120-7
- **Additional information:**
Molecular Formula: C₁₆H₂₈O₂
Molecular Weight: 252.39 g/mol
Degree of purity: > 97.1 - < 99.9 % (w/w)
Synonyms: Oxacycloheptadec-10-en-2-one
Isoambrettolide
FEMA No. 2555
- **SVHC** The substance is not in the list of SVHC substances

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Contact physician.
- **After inhalation:**
In case of excessive inhalation, expose the person to fresh air and if necessary, obtain medical assistance. If not breathing give artificial respiration.
- **After skin contact:**
After skin contact Wash skin immediately with water and soap. If any sign of tissue damage or persistent irritation is apparent obtain medical assistance immediately
- **After eye contact:**
After eye contact immediately rinse eyes with water.
If any sign of tissue damage or persistent irritation is apparent, obtain medical assistance immediately.
- **After swallowing:**
Rinse mouth with water (only if the person is conscious). Obtain medical assistance immediately.
Do not induce vomiting.
- **4.2 Most important symptoms and effects, both acute and delayed**
Skin contact: irritation, stinging
Eye contact: irritation, reddening, swelling
Inhalation: Choking, drowsiness, respiratory disruptions
Ingestion: queasiness, stomach aches
- **Information for doctor:** Treat symptomatically.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

IN

(Contd. on page 7)

Safety Data Sheet

COMMISSION REGULATION (EU) No 2015/830 of 1
June 2015 amending Annex II of Regulation (EU) No
453/2010

Printing date 19.02.2020

Revision: 19.02.2020

Trade name: **AMBRETTOLIDE**

(Contd. of page 6)

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Use fire extinguishing methods suitable to surrounding conditions.
CO₂, Dry chemical powder or foam.
- **For safety reasons unsuitable extinguishing agents:** Do not use water directly.
- **5.2 Special hazards arising from the substance or mixture**
May produce carbon mono-oxide and carbon dioxide.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus for firefighting if necessary.
- **Additional information**
High temperatures can provoke high pressures inside the closed packages.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Spillages should be contained by use of sand or another inert material.
Avoid penetration in the sewage system and surface water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Precaution should be taken to prevent material from splashing into the eyes and skin. Wear protective clothing and eye goggles.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool, dry, well-ventilated area away from incompatible substances.
- **Information about storage in one common storage facility:**
Store away from acid, alkaline and strong oxidizing agents.

(Contd. on page 8)

Safety Data Sheet

COMMISSION REGULATION (EU) No 2015/830 of 1
June 2015 amending Annex II of Regulation (EU) No
453/2010

Printing date 19.02.2020

Revision: 19.02.2020

Trade name: **AMBRETTOLIDE**

(Contd. of page 7)

· **Further information about storage conditions:**

Keep in airtight containers protected from light.

· **7.3 Specific end use(s)**

This material is used as an ingredient in the manufacturing of aromatic bases.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:** Not required.

· **DNELs**

Hazard conclusions for workers

Inhalation

Systemic effects - Long-term DNEL (Derived No Effect Level): 16.4 mg/m³ repeated dose toxicity (Oral)

Dermal

Systemic effects - Long-term DNEL (Derived No Effect Level): 4.67 mg/kg bw/day repeated dose toxicity (Oral)

Hazard conclusions for the general population

Inhalation

Systemic effects - Long-term DNEL (Derived No Effect Level): 2.9 mg/m³ repeated dose toxicity (Oral)

Dermal

Systemic effects - Long-term DNEL (Derived No Effect Level): 1.67 mg/kg bw/day repeated dose toxicity (Oral)

Oral

Systemic effects - Long-term DNEL (Derived No Effect Level): 1.67 mg/kg bw/day repeated dose toxicit (Oral)

· **PNECs**

Hazard assessment conclusion for the environment

PNEC aqua (freshwater): 0.194 µg/L

PNEC aqua (marine water): 19.4 ng/L

PNEC sediment (freshwater): 3.84 µg/kg sediment dw

PNEC sediment (marine water): 0.384 µg/kg sediment dw

PNEC soil: 0.654 µg/kg soil dw

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Suitable respiratory protective device recommended.

(Contd. on page 9)

Safety Data Sheet

COMMISSION REGULATION (EU) No 2015/830 of 1
June 2015 amending Annex II of Regulation (EU) No
453/2010

Printing date 19.02.2020

Revision: 19.02.2020

Trade name: **AMBRETTOLIDE**

(Contd. of page 8)

· **Protection of hands:**

The glove material must be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time must be found out by the manufacturer of the protective gloves and must be observed.

· **Eye protection:** Goggles recommended during refilling

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· Appearance:	Liquid
· Form:	Liquid
· Colour:	Colourless to pale yellow
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value at 30 °C:	6.3 (1% w/v)
-----------------------------	--------------

· **Change in condition**

· Melting point/freezing point:	-11.56 °C
· Initial boiling point and boiling range:	254 °C
· Flash point:	166.6 °C (1013 hPa)
· Flammability (solid, gas):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Oxidising properties	No oxidizing properties.
· Vapour pressure at 25 °C:	0.003 Pa

(Contd. on page 10)

Safety Data Sheet

COMMISSION REGULATION (EU) No 2015/830 of 1
June 2015 amending Annex II of Regulation (EU) No
453/2010

Printing date 19.02.2020

Revision: 19.02.2020

Trade name: **AMBRETTOLIDE**

(Contd. of page 9)

· Density:	Not determined.
· Relative density at 20 °C	0.9497
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water at 23 °C:	6.7 log POW
· Viscosity:	
Dynamic at 20 °C:	108.28 mPas
Kinematic:	Not determined.
· 9.2 Other information	Refractive Index: 1.47300–1.47900 at 20°C

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid**
Prolonged or excessive heat, pressure and inadequate manipulation of packages.
- **10.5 Incompatible materials:** Acid, alkaline and strong oxidizing agents.
- **10.6 Hazardous decomposition products:**
Under normal conditions of storage are not known dangerous substances in decomposition.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Oral	LD50	> 2000 mg/kg bw (rat) (OECD Guideline 423)
Dermal	LD50	>2000 mg/kg bw (rat) (OECD Guideline 402)

- **Primary irritant effect:**
- **Skin corrosion/irritation**

The overall irritation score of the substance was determined to be 0 and no erythema and edema (skin irritation) were found at the end of 14 days observation period after patch removal. Hence, it was concluded that the test chemical was not irritating to the skin of Sprague Dawley rats under the experimental conditions tested.

(Contd. on page 11)

Safety Data Sheet

COMMISSION REGULATION (EU) No 2015/830 of 1
June 2015 amending Annex II of Regulation (EU) No
453/2010

Printing date 19.02.2020

Revision: 19.02.2020

Trade name: **AMBRETTOLIDE**

(Contd. of page 10)

· **Serious eye damage/irritation**

Day 1 readings showed scores of 1, 2, and 3 for redness and chemosis. Discharge was also noted in all three animals. These signs generally remained at day 2, subsided by day 3 and cleared by day 4. Cornea and iris were not involved and remained normal.

Hence, the test chemical can be considered to be not irritating to rabbit eyes.

· **Respiratory or skin sensitisation**

SkA patch test was conducted for test chemical on 422 patients suspected with contact allergy who visited the hospitals over the period April 2002 to June 2003 in 9 university hospitals in Korea. Each patient was exposed to 5% of test chemical in petrolatum by using Finn Chambers on Scanpor tape (Epitest, Tuusula, Finland) for patch testing, and the results were evaluated according to the recommendation of the International Contact Dermatitis Research Group. No dermal reactions were observed in the 422 patients suspected with contact allergy. Thus, based on these observations and results, the test chemical was not sensitizing to skin.

· **Repeated dose toxicity**

Repeated dose toxicity: oral

NOAEL: 1000 mg/kg bw/day (actual dose received) (male/female)

Conclusion: No effect observed

Repeated dose toxicity - via inhalation route:

According to Annex IX of the REACH regulation, testing by the inhalation route is appropriate only if exposure of humans via inhalation is likely. Considering the low vapour pressure of the substance oxacycloheptadec-10-en-2-one (28645-51-4) which is reported as 2.2351839 10⁻⁵Hgmm at 25°C. Thus, exposure to inhalable dust, mist and vapour of the chemical oxacycloheptadec-10-en-2-one is highly unlikely and therefore this study is considered for waiver.

Repeated dose toxicity - via dermal route:

The acute toxicity value for oxacycloheptadec-10-en-2-one (28645-51-4) (as provided in section 7.2.3) is >2000 mg/kg body weight. Also, given the use of the chemical; repeated exposure by dermal route is unlikely since the use of gloves is common practice in industries. Thus, it is expected that oxacycloheptadec-10-en-2-one shall not exhibit toxic effects via dermal exposure after exposure of 28 consecutive days. In addition, there is no data available that suggests that oxacycloheptadec-10-en-2-one shall exhibit repeated dose toxicity via dermal route and, consequently this endpoint was considered for waiver.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

The substance is not carcinogenic, Non-mutagenic and nontoxic for reproduction.

· **Germ cell mutagenicity** Genetic toxicity: no adverse effect observed (negative)

· **Carcinogenicity** No data available.

· **Reproductive toxicity**

no adverse effect observed (NOAEL): 1000mg/kg bw/day (subchronic, rat [common rodent species])

· **STOT-single exposure** No data available.

· **STOT-repeated exposure** No data available.

(Contd. on page 12)

Safety Data Sheet

COMMISSION REGULATION (EU) No 2015/830 of 1
June 2015 amending Annex II of Regulation (EU) No
453/2010

Printing date 19.02.2020

Revision: 19.02.2020

Trade name: **AMBRETTOLIDE**

(Contd. of page 11)

· **Aspiration hazard** No data available.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

In accordance with column 2 of Annex VIII of the REACH regulation, testing for this end point is considered scientifically unjustified since there are mitigating factors indicating that aquatic toxicity is unlikely to occur as the substance is highly insoluble in water.

EC50 (48 h) (static)	1.7 mg/L test (<i>Daphnia magna</i>) (OECD Guideline 202)
----------------------	---

EC50 (72 h)	29.7 mg/L (<i>Desmodesmus subspicatus</i>) (OECD Guideline 201)
-------------	---

· 12.2 Persistence and degradability

Biodegradation in water: Screening test

Test type: ready biodegradability

Result: readily biodegradable

94 after 28d (% degradation (O₂ consumption))

Simulation tests (water and sediments):

Half-life period of oxacycloheptadec-10-en-2-one, in water is observed to be 15 days (360 hrs.) while in sediment it is 135 days (3240 hrs). Based on these half-life values of oxacycloheptadec-10-en-2-one, it is concluded that the chemical is not persistent in water but persistent in sediment.

Biodegradation in soil: Estimated

oxacycloheptadec-10-en-2-one, is expected to be found predominantly in soil and its persistence estimate is based on its transformation in this medium. Its half-life in soil, 30 days (720 hrs), does exceeds the threshold of 120 days as per Annex XIII of REACH. Therefore, oxacycloheptadec-10-en-2-one, is estimated to be not persistent in the soil environment.

· **12.3 Bioaccumulative potential** No further relevant information available.

· 12.4 Mobility in soil

Soil Adsorption Coefficient (est.):

The adsorption coefficient *K_{oc}* in soil and in sewage sludge of test chemical was determined by the Reverse Phase High Performance Liquid Chromatographic method according to OECD Guideline No. 121 for testing of Chemicals (Experimental study report, 2017).

The Log *K_{oc}* value of test chemical was determined to be 2.209 ± 0.000 at 25°C.

This log *K_{oc}* value indicates that the test chemical has a low sorption to soil and sediment and therefore have moderate migration potential to ground water.

· **Additional ecological information:**

· General notes:

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

(Contd. on page 13)

Safety Data Sheet

COMMISSION REGULATION (EU) No 2015/830 of 1
June 2015 amending Annex II of Regulation (EU) No
453/2010

Printing date 19.02.2020

Revision: 19.02.2020

Trade name: **AMBRETTOLIDE**

(Contd. of page 12)

- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Dispose of waste material according to local, state and federal regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|-----------------|
| · 14.1 UN-Number | |
| · ADR, IMDG, IATA | Not applicable |
| · ADN | Not applicable |
| · 14.2 UN proper shipping name | |
| · ADR, IMDG, IATA | Not applicable |
| · ADN | Not applicable |
| · 14.3 Transport hazard class(es) | |
| · ADR, IMDG, IATA | |
| · Class | Not applicable |
| · ADN/R Class: | Not applicable |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | Not applicable |
| · 14.5 Environmental hazards: | Not applicable. |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Not applicable |

IN

(Contd. on page 14)

Safety Data Sheet

COMMISSION REGULATION (EU) No 2015/830 of 1
June 2015 amending Annex II of Regulation (EU) No
453/2010

Printing date 19.02.2020

Revision: 19.02.2020

Trade name: **AMBRETTOLIDE**

(Contd. of page 13)

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Not applicable
- **Signal word** No signal word
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
 - TSCA – Listed
 - Canada-DSL/NDSL – Listed
 - China-NEPA (IECSC) – Listed
 - Philippines-PICCS – Listed
 - New Zealand (NZIoC) – Listed
 - Australia-AICS – Listed
 - Japan -MITI-Listed
- **Substances of very high concern (SVHC) according to REACH, Article 57**
The substance is not listed as SVHC.
- **15.2 Chemical safety assessment:**
Exposure assessment not required as substance is not classified as dangerous.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product safety department.
- **Contact:**
 - Telephone: +91-33-22159750
 - Fax: + 91-33-22150685
 - E-mail: sales@rsshells.com; rsshells@yahoo.com
- **Abbreviations and acronyms:**
 - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - DNEL: Derived No-Effect Level (REACH)

(Contd. on page 15)

IN

Safety Data Sheet

COMMISSION REGULATION (EU) No 2015/830 of 1 June 2015 amending Annex II of Regulation (EU) No 453/2010

Printing date 19.02.2020

Revision: 19.02.2020

Trade name: AMBRETTOLIDE

(Contd. of page 14)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

• **Sources**

- *REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.*

- *Data from ECHA Dossier 28645-51-4*

<http://echa.europa.eu/registration-dossier/-/registered-dossier/16691/1>

- *CSR document for CAS No.228645-51-4*

• * **Data compared to the previous version altered.**

- *Section 1: Identification of the substance/preparation & of the company/ undertaking.*

- *Section 3: Composition /Information on Ingredients*

- *Section 4: First-aid measures.*

- *Section 5: Fire-fighting measures*

- *Section 6: Accidental Release measures*

- *Section 7: Handling and storage.*

- *Section 8: Exposure Controls/Personal protection.*

- *Section 9: Physical and Chemical properties.*

- *Section 10: Stability and Reactivity.*

- *Section 11: Toxicological Information.*

- *Section 12: Ecological Information.*

- *Section13 Disposal considerations*

- *Section15: Regulatory information*

- *Section16: Other information*

IN

SHELLS