

| Version 1.9 | Revision Date: 2020/10/10 | | S Number: '980-00010 | Date of last issue: 2019/09/13 Date of first issue: 2016/06/01 |
|----------------|------------------------------|------|---|---|
| 1. PRODL | JCT AND COMPANY IDE | ENT | IFICATION | |
| Produ | uct name | : | Olmesartan Fo | rmulation |
| Manu | ufacturer or supplier's d | etai | ls | |
| Com | •• | : | Organon & Co. | |
| Addre | ess | : | JL Raya Panda Pandaan, Jawa | aan KM. 48 a Timur - Indonesia |
| Telep | phone | : | 551-430-6000 | |
| Emer | rgency telephone number | : | 215-631-6999 | |
| E-ma | il address | : | EHSSTEWARI | D@organon.com |
| Reco | ommended use of the ch | nem | ical and restric | tions on use |
| Reco | mmended use | : | Pharmaceutica | I |
| 2. HAZAR | DS IDENTIFICATION | | | |
| GHS | Classification | | | |
| | oductive toxicity | : | Category 1A | |
| GHS | label elements | | | |
| Haza | rd pictograms | : | | |
| | | | | |
| Signa | al word | : | Danger | |
| Haza | rd statements | : | H360D May da | mage the unborn child. |
| Preca | autionary statements | : | P202 Do not ha and understood | tective gloves/ protective clothing/ eye protec- |
| | | | Response: | exposed or concerned: Get medical advice/ |
| | | | Storage: P405 Store loc | ked up. |
| | | | Disposal: P501 Dispose disposal plant. | of contents/ container to an approved waste |



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Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

4. FIRST AID MEASURES

| Chemical name | CAS-No. | Concentration (% w/w) |
|---------------|-------------|-----------------------|
| Olmesartan | 144689-63-4 | >= 0.3 -< 10 |
| Cellulose | 9004-34-6 | < 10 |

In the case of accident or if you feel unwell, seek medical ad-General advice vice immediately. When symptoms persist or in all cases of doubt seek medical advice. If inhaled If inhaled, remove to fresh air. 5 Get medical attention. In case of skin contact In case of contact, immediately flush skin with soap and plenty : of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. In case of eye contact If in eyes, rinse well with water. : Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. If swallowed : Get medical attention. Rinse mouth thoroughly with water. Most important symptoms May damage the unborn child. and effects, both acute and Contact with dust can cause mechanical irritation or drying of delayed the skin. Dust contact with the eyes can lead to mechanical irritation. First Aid responders should pay attention to self-protection, Protection of first-aiders : and use the recommended personal protective equipment when the potential for exposure exists (see section 8). Treat symptomatically and supportively. Notes to physician : **5. FIREFIGHTING MEASURES** Suitable extinguishing media : Water spray Alcohol-resistant foam

| | | Carbon dioxide (CO2) Dry chemical |
|---|---|--|
| Unsuitable extinguishing media | : | None known. |
| Specific hazards during fire- fighting | : | Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a |



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| | | | potential dust exp Exposure to comb | losion hazard. Dustion products may be a hazard to health. | |
| Ha uct | zardous combustion prod- s | : | Carbon oxides | | |
| | Specific extinguishing meth- ods | | Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to de so. Evacuate area. | | |
| | ecial protective equipment firefighters | : | | e, wear self-contained breathing apparatus. tective equipment. | |
| 6. ACC | IDENTAL RELEASE MEAS | SUF | RES | | |
| tive | Personal precautions, protec- tive equipment and emer- gency procedures | | Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8). | | |
| En | vironmental precautions | : | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. | | |
| | Methods and materials for containment and cleaning up | | tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national posal of this mate employed in the c mine which regula Sections 13 and 1 | f dust in the air (i.e., clearing dust surfaces | |
| 7. HAN | DLING AND STORAGE | | | | |
| _ | | | _ | | |

| Technical measures | Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. |
|-------------------------|--|
| Local/Total ventilation | : If sufficient ventilation is unavailable, use with local exhaust ventilation. |
| Advice on safe handling | Do not get on skin or clothing. Do not breathe dust. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety |



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| | | sessment Keep container Minimize dust Keep container Keep away fro Take precautio | d on the results of the workplace exposure as- r tightly closed. generation and accumulation. r closed when not in use. m heat and sources of ignition. nary measures against static discharges. revent spills, waste and minimize release to the |
| Cond | itions for safe storage | Store locked up Keep tightly clo | osed. |
| Mater | rials to avoid | | lance with the particular national regulations. ith the following product types: g agents |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|------------|-------------|-------------------------------------|--|----------|
| Olmesartan | 144689-63-4 | TWA | 30 µg/m3 (OEB 3) | Internal |
| | | Wipe limit | 300 µg/100 cm ² | Internal |
| Cellulose | 9004-34-6 | TWA | 10 mg/m3 | ACGIH |

| Engineering measures | : | All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling. |
|---|----|--|
| Personal protective equipment | nt | |
| Respiratory protection Filter type | : | If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type |
| Hand protection | | |
| Material | : | Chemical-resistant gloves |
| Remarks Eye protection Skin and body protection | : | Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. Work uniform or laboratory coat. |
| | | Additional body garments should be used based upon the |



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| Hygier | ne measures | posable suits) t Use appropriat contaminated of If exposure to of eye flushing sy ing place. When using do Wash contamin The effective of engineering co appropriate des | chemical is likely during typical use, provide stems and safety showers close to the work- not eat, drink or smoke. nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | powder |
|---|---|--|
| Colour | : | No data available |
| Odour | : | No data available |
| Odour Threshold | : | No data available |
| рН | : | No data available |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | No data available |
| Flash point | : | Not applicable |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | May form explosive dust-air mixture during processing, han- dling or other means. |
| Flammability (liquids) | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Relative density | : | No data available |
| Density | | |



Olmesartan Formulation

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|---------------|----------------------|--|-------|--|---|
| S | Solubili | tv(ies) | | | |
| | | er solubility | : | No data available | 9 |
| | Partition octanol | n coefficient: n- /water | : | No data available | 9 |
| А | Auto-ig | nition temperature | : | No data available | 9 |
| D | Decom | position temperature | : | No data available | 9 |
| V | /iscosit | - | | | |
| | Visc | osity, kinematic | : | No data available | 9 |
| E | Explosi | ve properties | : | Not explosive | |
| С | Dxidizir | ng properties | : | The substance o | r mixture is not classified as oxidizing. |
| Ν | Nolecu | lar weight | : | No data available | 9 |
| P | Particle | size | : | No data available | 2 |
| 10. S1 | TABIL | ITY AND REACTIVITY | , | | |
| C P | | ity al stability lity of hazardous reac- | : | Stable under nor May form explos dling or other me | ive dust-air mixture during processing, han- |
| С | Conditio | ons to avoid | : | Heat, flames and Avoid dust forma | |
| Ir | ncomp | atible materials | : | Oxidizing agents | |
| | lazard | ous decomposition s | : | | ecomposition products are known. |
| 11. TC | OXICO | LOGICAL INFORMAT | | l | |
| | nforma exposu | tion on likely routes of re | : | Inhalation Skin contact Ingestion Eye contact | |
| A | Acute t | oxicity | | | |
| Ν | Not clas | ssified based on availa | ble i | nformation. | |
| <u>P</u> | Produc | <u>et:</u> | | | |
| A | Acute o | oral toxicity | : | Acute toxicity esti Method: Calculati | mate: > 2,000 mg/kg on method |
| ~ | | nonto | | | |

Components:

Olmesartan:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg



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| | | | LD50 (Mouse): > | > 2,000 mg/kg | |
| | | | LD50 (Dog): > 1 | ,500 mg/kg | |
| Acute | inhalation toxicity | : | Remarks: No da | ta available | |
| Acute | Acute dermal toxicity | | Remarks: No data available | | |
| Cellu | lose: | | | | |
| Acute | oral toxicity | : | LD50 (Rat): > 5, | 000 mg/kg | |
| Acute | inhalation toxicity | : | LC50 (Rat): > 5. Exposure time: 4 Test atmosphere | 4 h | |
| Acute | e dermal toxicity | : | LD50 (Rabbit): > | > 2,000 mg/kg | |
| - | corrosion/irritation lassified based on ava | ailable | information. | | |
| <u>Comp</u> | oonents: | | | | |
| Olme Rema | sartan: arks | : | No data availabl | e | |
| | | | | | |
| Serio Not cl | us eye damage/eye lassified based on ava ponents: | | | | |
| Serio Not cl <u>Comp</u> | lassified based on ava | | | | |
| Serio Not cl <u>Comp</u> | lassified based on ava ponents: sartan: les lt | | | ritation | |
| Serio Not cl Comp Olme Speci Resul Metho | lassified based on ava ponents: sartan: les lt | ailable : : | information. Rabbit Moderate eye in Draize Test | ritation | |
| Serio Not cl Comp Olme Speci Resul Metho Respi | lassified based on ava <u>ponents:</u> sartan: les lt pd | ailable : : | information. Rabbit Moderate eye in Draize Test | ritation | |
| Serio Not cl Comp Olme Speci Resul Metho Respi Skin s | lassified based on ava <u>ponents:</u> sartan: les lt pd iratory or skin sensi | ailable : : tisatic | information. Rabbit Moderate eye in Draize Test | ritation | |
| Serio Not cl Comp Olme Speci Resul Metho Respi Skin s Not cl Respi | lassified based on ava <u>ponents:</u> sartan: les It pd iratory or skin sensi sensitisation | ailable : tisatic ailable | information. Rabbit Moderate eye in Draize Test on information. | ritation | |
| Serio Not cl Comp Olme Speci Resul Metho Respi Skin s Not cl Not cl | lassified based on ava <u>ponents:</u> sartan: les It pd iratory or skin sensi sensitisation lassified based on ava iratory sensitisation | ailable : tisatic ailable | information. Rabbit Moderate eye in Draize Test on information. | ritation | |
| Serio Not cl Comp Olme Speci Resul Metho Respi Skin s Not cl Respi Not cl Not cl | lassified based on ava ponents: sartan: les It pd iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava | ailable : tisatic ailable | information. Rabbit Moderate eye in Draize Test on information. | ritation | |



| ersion Ə | Revision Date: 2020/10/10 | | Number: 80-00010 | Date of last issue: 2019/09/13 Date of first issue: 2016/06/01 |
|-----------------------|---|-------------|---|---|
| <u>Com</u> | ponents: | | | |
| Olme | esartan: | | | |
| Genotoxicity in vitro | | | est Type: Bacte Result: negative | rial reverse mutation assay (AMES) |
| | | | est Type: Mutag Result: negative | genicity (in vitro mammalian cytogenetic tes |
| | | Т | | nosome aberration test in vitro nese hamster lung cells |
| | | | est Type: Mous Result: negative | e Lymphoma |
| Geno | toxicity in vivo | S C A | est Type: Micro pecies: Mouse cell type: Bone n pplication Route Result: negative | narrow |
| | i cell mutagenicity - ssment | | Veight of eviden ell mutagen. | ce does not support classification as a gern |
| Cellu | lose: | | | |
| Geno | toxicity in vitro | | est Type: Bacte Result: negative | rial reverse mutation assay (AMES) |
| | | | est Type: In vitr Result: negative | o mammalian cell gene mutation test |
| Geno | toxicity in vivo | c S A | est Type: Mamr ytogenetic assa pecies: Mouse pplication Route Result: negative | |
| | i nogenicity lassified based on ava | ilable in | formation. | |
| Com | ponents: | | | |
| Olme | esartan: | | | |
| • | | _ | | |

| Species | : | Rat |
|---|---|---------------------------------------|
| Application Route | : | Oral |
| Exposure time | : | 2 Years |
| Result | : | negative |
| | | U |
| Species Application Route Exposure time Result | : | Mouse Oral 6 Months negative |





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| S A E: | ellulose: pecies pplication Route xposure time esult | : Rat : Ingestion : 72 weeks : negative | |
| | eproductive toxicity ay damage the unborn child | | |
| <u>C</u> | omponents: | | |
| 0 | Imesartan: | | |
| E | ffects on fertility | : Test Type: Fertili Species: Rat Application Route Fertility: NOAEL: Result: No effects | e: Oral 1,000 mg/kg body weight |
| | ffects on foetal develop- ent | Result: No terato Test Type: Devel Species: Rabbit Application Route Dose: 1 milligram Result: No terato Test Type: Devel Species: Rat Application Route Developmental T | e: Oral gram per kilogram genic effects opment e: Oral n per kilogram genic effects |
| | | weight Result: Effects or | n postnatal development |
| | eproductive toxicity - As- essment | : Positive evidence human epidemiol | e of adverse effects on development from logical studies. |
| С | ellulose: | | |
| E | ffects on fertility | : Test Type: One-o Species: Rat Application Route Result: negative | generation reproduction toxicity study e: Ingestion |
| | ffects on foetal develop- ent | : Test Type: Fertili Species: Rat Application Route Result: negative | ty/early embryonic development e: Ingestion |



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| | T - single exposure classified based on availal | ole | information. | | | | | | |
| STO | STOT - repeated exposure | | | | | | | | |
| Not o | Not classified based on available information. | | | | | | | | |
| Repe | Repeated dose toxicity | | | | | | | | |
| <u>Com</u> | ponents: | | | | | | | | |
| Olmo | esartan: | | | | | | | | |
| Spec | | : | Rat | | | | | | |
| NOA Appli | ication Route | ÷ | 2,000 mg/kg Oral | | | | | | |
| Expo | osure time | : | 24 Months | | | | | | |
| Rem | arks | : | No significant adv | erse effects were reported | | | | | |
| Cellu | ulose: | | | | | | | | |
| Spec | | : | Rat | | | | | | |
| NOA | | : | >= 9,000 mg/kg | | | | | | |
| | ication Route | : | Ingestion 90 Days | | | | | | |
| Not o | iration toxicity classified based on availal erience with human expo pponents: | | | | | | | | |
| Olmo | esartan: | | | | | | | | |
| | contact | : | Symptoms: Eye in | | | | | | |
| Inges | stion | : | Symptoms: hypote Remarks: May ca Based on Human | use harm to the unborn child. | | | | | |
| 12. ECOL | OGICAL INFORMATION | | | | | | | | |
| Ecot | oxicity | | | | | | | | |
| <u>Com</u> | ponents: | | | | | | | | |
| Cellu | ulose: | | | | | | | | |
| Τοχία | city to fish | : | Exposure time: 48 | ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials | | | | | |
| Pers | sistence and degradabili | ty | | | | | | | |
| <u>Com</u> | Components: | | | | | | | | |
| Cellu | ulose: | | | | | | | | |
| | egradability | : | Result: Readily bi | odegradable. | | | | | |
| | . , | | | 5 | | | | | |



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| | ccumulative potential ata available | | | | | |
| | Mobility in soil No data available | | | | | |
| •• | r adverse effects ata available | | | | | |
| 13. DISPO | OSAL CONSIDERATIO | NS | | | | |
| Wast | osal methods e from residues aminated packaging | : Empty contain dling site for re | accordance with local regulations. ers should be taken to an approved waste han- ecycling or disposal. e specified: Dispose of as unused product. | | | |
| 14. TRAN | SPORT INFORMATIO | N | | | | |
| Inter | national Regulations | | | | | |
| UNR Not re | TDG egulated as a dangerou | is good | | | | |
| | IATA-DGR Not regulated as a dangerous good | | | | | |

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered : Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

| Hazardous substances approved for use | : | Not applicable |
|---------------------------------------|---|----------------|
| Prohibited substances | : | Not applicable |
| Restricted substances | : | Not applicable |





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| - | Regulation of the Minister of Trade No. 44 of 2009 on Procurement, Distribution and Supervision of Hazardous Materials | | | | | | |
| | Type of Hazardous Materials Restricted to Import, : Not applicable Distribution and Supervision | | | | | | |
| The c | components of this p | roduct are reported i | n the following inventories: | | | | |
| AICS | | : not determined | | | | | |
| DSL | | : not determined | | | | | |
| IECS | С | : not determined | | | | | |
| | | | | | | | |

16. OTHER INFORMATION

| Further information | | |
|---|-----|--|
| Sources of key data used to compile the Safety Data Sheet | : | Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/ |
| Date format | : | yyyy/mm/dd |
| Full text of other abbreviation | ons | |
| ACGIH | : | USA. ACGIH Threshold Limit Values (TLV) |
| ACGIH / TWA | : | 8-hour, time-weighted average |

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Trans-



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portation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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