

## Steward® eVo insecticide

| Version<br>1.2 | Revision Date:<br>02.08.2023                               |           | S Number:<br>)00122   | Date of last issue: -<br>Date of first issue: 03.01.2018 |
|----------------|--|-----------|---|--|
| Section 1:     | dentification  |           |   |  |
| Produ          | ict name   | :         | Steward® eVo ir   | nsecticide   |
| Reco           | <b>mmended use of the</b><br>mmended use<br>ictions on use | chem<br>: | Insecticide   | ons on use<br>ended by the label.                        |
| Manu           | facturer or supplier's                                     | s deta    | ils   |  |
| Comp           |  | :         | FMC New Zeala   | nd Ltd   |
| Addre          | 255  | :         | IRD number: 10<br>6 Clayton Street<br>1023 Auckland<br>New Zealand        |  |
| Telep          | hone   | :         | +640800658080   |  |
| Telefa         | ах   | :         | (09)-271-2961   |  |
| E-mai          | il address   | :         | SDS-Info@fmc.o  | com  |
| Emer           | gency telephone numb                                       | ber :     | 0800 734 607 (b)<br>Medical emerger<br>0800 764 766 (N<br>0800 111174 (24 | ,  |

#### Section 2: Hazard identification

| GHS Classification<br>Acute toxicity (Oral)           | : | Acute Tox.4                      |
|---|---|----------------------------------|
| Skin sensitisation                                    | : | Skin Sens.1                      |
| Specific target organ toxicity -<br>repeated exposure | : | STOT RE1 (Blood, Nervous system) |
| Hazardous to terrestrial verte-<br>brates             |   |                                  |
| Hazardous to terrestrial inver-<br>tebrates           |   |                                  |



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| ersion<br>2 | Revision Date:<br>02.08.2023    | SDS Number:<br>50000122  | Date of last issue: -<br>Date of first issue: 03.01.2018  |
|-------------|---------------------------------|--|---|
| GHS         | label elements                  |  |   |
| Hazar       | rd pictograms                   |  |   |
| Signa       | l word                          | : Danger   |   |
| Hazar       | rd statements                   | H317 May ca<br>H372 Causes<br>through prolo<br>H433 Harmfu   | Il if swallowed.<br>use an allergic skin reaction.<br>s damage to organs (Blood, Nervous system)<br>nged or repeated exposure.<br>Il to terrestrial vertebrates.<br>Il to terrestrial invertebrates.  |
| Preca       | utionary statements             | Prevention:  |   |
|             |                                 | and other ign<br>P260 Do not<br>P264 Wash s<br>P270 Do not<br>P272 Contan<br>the workplace<br>P280 Wear p          | way from heat, hot surfaces, sparks, open flam<br>ition sources. No smoking.<br>breathe mist or vapours.<br>skin thoroughly after handling.<br>eat, drink or smoke when using this product.<br>hinated work clothing should not be allowed out<br>e.<br>rotective gloves/ protective clothing/ eye protect<br>tection/ hearing protection.  |
|             |                                 | Response:  |   |
|             |                                 | CENTER/ do<br>P302 + P352<br>P314 Get me<br>P333 + P313<br>vice/ attentior<br>P362 + P364<br>reuse.<br>P370 + P378 | <ul> <li>+ P330 IF SWALLOWED: Call a POISON<br/>ctor if you feel unwell. Rinse mouth.</li> <li>IF ON SKIN: Wash with plenty of water.</li> <li>dical advice/ attention if you feel unwell.</li> <li>If skin irritation or rash occurs: Get medical addression.</li> <li>Take off contaminated clothing and wash it be</li> <li>In case of fire: Use dry sand, dry chemical or<br/>cant foam to extinguish.</li> </ul> |
|             |                                 | <b>Storage:</b><br>P403 Store ir   | n a well-ventilated place.  |
|             |                                 | Disposal:  | ·   |
|             |                                 | •  | e of contents/ container to an approved waste<br>t.   |
| Other       | <sup>.</sup> hazards which do r | not result in classific  | ation   |
| None        | known.                          |  |   |

Substance / Mixture : Mixture

#### Components

Section 4: First-aid measures



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|---|--|
|   |  |
| Chemical name CAS-No.   | Concentration (% w                     |

| Chemical name                    | CAS-No.     | Concentration (% w/w) |
|----------------------------------|-------------|-----------------------|
| indoxacarb (ISO)                 | 173584-44-6 | 15.84                 |
| calcium dodecylbenzenesulphonate | 26264-06-2  | >= 3 -< 10            |
| Fatty acids, soya, Me esters     | 68919-53-9  | >= 1 -< 10            |
| 2-ethylhexan-1-ol                | 104-76-7    | >= 1 -< 10            |
| Fatty acids, C6-10, Me esters    | 68937-83-7  | >= 1 -< 10            |

| General advice  | : | Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.   |
|---|---|--|
| If inhaled  | : | If unconscious, place in recovery position and seek medical<br>advice.<br>If symptoms persist, call a physician.   |
| In case of skin contact   | : | Take off all contaminated clothing immediately.<br>Wash off with soap and water.<br>If symptoms persist, call a physician.<br>Wash contaminated clothing before re-use.  |
| In case of eye contact  | : | Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.  |
| If swallowed  | : | Induce vomiting immediately and call a physician.<br>Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |
| Most important symptoms<br>and effects, both acute and<br>delayed | : | Exposure may result in loss of coordination and tremors.<br>Harmful if swallowed.<br>May cause an allergic skin reaction.<br>May cause damage to organs.<br>Causes damage to organs through prolonged or repeated<br>exposure.   |
| Protection of first-aiders  | : | Avoid inhalation, ingestion and contact with skin and eyes.  |
| Notes to physician  | : | Treat symptomatically.   |
|   |   |  |

#### Section 5: Fire-fighting measures

| Suitable extinguishing media | : | Dry chemical<br>Carbon dioxide (CO2) |
|------------------------------|---|--------------------------------------|
|                              |   | Water spray                          |
|                              |   | Regular foam                         |



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|--------------------------------|-----------------------------------|---|--|--|--|--|
| Unsuitable extinguishing media |                                   | : | High volume wate   | High volume water jet  |  |  |
| Specifi<br>fighting            | c hazards during fire-<br>I       | : | Do not allow run-off from fire fighting to enter drains or water courses.  |  |  |  |
| Hazaro<br>ucts                 | lous combustion prod-             | : | Fire may produce irritating, corrosive and/or toxic gases.<br>Chlorinated compounds<br>Fluorinated compounds<br>Nitrogen oxides (NOx)<br>Carbon oxides<br>Hydrogen cyanide<br>Hydrogen chloride<br>Hydrogen fluoride<br>Sulphur oxides |  |  |  |
| Specifi<br>ods                 | c extinguishing meth-             | : | so.<br>Use a water spray<br>Use extinguishing<br>cumstances and t<br>Collect contamina<br>must not be disch<br>Fire residues and   | ged containers from fire area if it is safe to do<br>to cool fully closed containers.<br>measures that are appropriate to local cir-<br>he surrounding environment.<br>ted fire extinguishing water separately. This<br>arged into drains.<br>contaminated fire extinguishing water must<br>accordance with local regulations. |  |  |
|                                | l protective equipment<br>ïghters | : | Firefighters should breathing apparat  | d wear protective clothing and self-contained us.  |  |  |
| Hazch                          | em Code                           | : | 3Z   |  |  |  |

#### Section 6: Accidental release measures

| Personal precautions, protec-<br>tive equipment and emer-<br>gency procedures | : | Evacuate personnel to safe areas.<br>Use personal protective equipment.<br>If it can be safely done, stop the leak.<br>Do not touch or walk through the spilled material.<br>Keep people away from and upwind of spill/leak.<br>Remove all sources of ignition.<br>Immediately evacuate personnel to safe areas.<br>Ensure adequate ventilation.<br>Never return spills in original containers for re-use.<br>Mark the contaminated area with signs and prevent access to<br>unauthorized personnel equipped with suitable protective<br>equipment may intervene.<br>For disposal considerations see section 13. |
|---|---|--|
| Environmental precautions   | : | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform<br>respective authorities.   |
| Methods and materials for containment and cleaning up                         | : | Never return spills in original containers for re-use.<br>Collect as much of the spill as possible with a suitable absor-  |



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|                |   |   |  | fer to properly labelled containers.<br>closed containers for disposal.                 |
| Section 7      | Handling and storage                    | ) |  |   |
|                | e on protection against<br>nd explosion | : |  | a naked flame or any incandescent material.<br>open flames, hot surfaces and sources of |
| Advic          | e on safe handling                      | : | Avoid contact with<br>For personal prot<br>Smoking, eating a<br>plication area.<br>Provide sufficient                                      | apours/dust.<br>obtain special instructions before use.                                 |
| Hygie          | ne measures                             | : | Do not inhale aer<br>When using do no<br>When using do no  | ot eat or drink.  |
| Condi          | itions for safe storage                 | : | Observe label pre<br>Keep container cl<br>Keep locked up o<br>authorised person<br>Keep in properly<br>No smoking.<br>Electrical installat | losed when not in use.<br>r in an area accessible only to qualified or                  |
| Reco<br>perati | mmended storage tem-<br>ure             | : | > 0 °C   |   |
|                | er information on stor-<br>tability     | : | Do not freeze.   |   |
|                |   |   | No decomposition   | n if stored and applied as directed.  |

#### Section 8: Exposure controls/personal protection

#### Components with workplace control parameters

| Components        | CAS-No.  | Value type<br>(Form of<br>exposure) | Control parame-<br>ters / Permissible<br>concentration | Basis |
|-------------------|----------|-------------------------------------|--|-------|
| 2-ethylhexan-1-ol | 104-76-7 | TWA                                 | 5 ppm  | ACGIH |



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|------------------------|-------------------------------|---|--|--|--|--|--|--|
| Perso                  | Personal protective equipment |   |  |  |  |  |  |  |
| Respiratory protection |                               |   | In case of mist, spray or aerosol exposure wear suitable per-<br>sonal respiratory protection and protective suit.   |  |  |  |  |  |
|                        | protection<br>aterial         |   | al resistant gloves, such as barrier laminate,<br>or nitrile rubber.   |  |  |  |  |  |
| Re                     | emarks                        |   | The suitability for a specific workplace should be discussed with the producers of the protective gloves.  |  |  |  |  |  |
| Eye protection         |                               | Tightly fitting                             | tle with pure water<br>safety goggles<br>ield and protective suit for abnormal processing  |  |  |  |  |  |
| Skin a                 | and body protection           |   | othing<br>protection according to the amount and con-<br>the dangerous substance at the work place.  |  |  |  |  |  |
| Prote                  | ctive measures                | Always have<br>structions.<br>Wear suitable | action before beginning work with this product.<br>on hand a first-aid kit, together with proper in-<br>e protective equipment.<br>lo not eat, drink or smoke. |  |  |  |  |  |
|                        |                               |   | t of professional plant protection use as recom-<br>end user must refer to the label and the instruc-  |  |  |  |  |  |

#### Section 9: Physical and chemical properties

| Physical state              | : liquid                             |        |
|-----------------------------|--------------------------------------|--------|
| Colour                      | : amber                              |        |
| Odour                       | : faint burn smell                   |        |
| Odour Threshold             | : No data availab                    | le     |
| рН                          | : 6.6 (20 - 25 °C)<br>Concentration: | 10 g/l |
| Melting point/range         | : No data availab                    | le     |
| Boiling point/boiling range | : No data availab                    | le     |
| Flash point                 | : 69 °C                              |        |



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|-------------|---------------------|--|---|---------------------|--|--|
|             |                     |  |   |                     |  |  |
|             | Evapor              | ation rate                               | : | No data available   | 9  |  |
|             | Flamm               | ability (liquids)                        | : | Not highly flamm    | able   |  |
|             | Self-igr            | nition                                   | : | 255 °C              |  |  |
|             |                     | explosion limit / Upper<br>ability limit | : | No data available   | 9  |  |
|             |                     | explosion limit / Lower<br>ability limit | : | No data available   | 9  |  |
|             | Vapour              | pressure                                 | : | No data available   | 9  |  |
|             | Relativ             | e vapour density                         | : | No data available   | 9  |  |
|             | Relativ             | e density                                | : | No data available   |  |  |
|             | Density             | /  | : | No data available   | 9  |  |
|             | Solubili<br>Wat     | ity(ies)<br>ter solubility               | : | No data available   | 9  |  |
|             | Partitio<br>octanol | n coefficient: n-<br>I/water             | : | No data available   | 9  |  |
|             | Auto-ig             | nition temperature                       | : | No data available   | 9  |  |
|             | Viscosi<br>Visc     | ty<br>cosity, dynamic                    | : | 5.6 mPa,s ( 25 °0   | C)   |  |
|             | Viso                | cosity, kinematic                        | : | No data available   | 9  |  |
|             | Explosi             | ive properties                           | : | Not explosive       |  |  |
|             | Oxidizii            | ng properties                            | : | Non-oxidizing       |  |  |
|             | Molecu              | lar weight                               | : | Not applicable      |  |  |

# Section 10: Stability and reactivity

| Reactivity                              | : | No decomposition if stored and applied as directed.   |
|---|---|---|
| Chemical stability                      | : | No decomposition if stored and applied as directed.   |
| Possibility of hazardous reac-<br>tions | : | Vapours may form explosive mixture with air.<br>No decomposition if stored and applied as directed. |
| Conditions to avoid                     | : | Avoid extreme temperatures<br>Avoid formation of aerosol.<br>Heat, flames and sparks.               |
| Incompatible materials                  | : | Avoid strong acids, bases, and oxidizers  |



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|------------------------|--|-------|---|---|
| Hazar<br>produ         | rdous decomposition                    | :     | Stable under                                      | recommended storage conditions.   |
| Section 1 <sup>4</sup> | 1: Toxicological infor                 | matio | on  |   |
| Expos                  | sure routes                            | :     | Skin contact                                      |   |
|                        | <b>e toxicity</b><br>ful if swallowed. |       |   |   |
| <u>Produ</u><br>Acute  | uct:<br>oral toxicity                  | :     | Method: OECE                                      | nale): 977 mg/kg<br>) Test Guideline 425<br>The component/mixture is moderately toxic afte<br>n.      |
| Acute                  | inhalation toxicity                    | :     | GLP: yes  | :4 h  |
| Acute                  | e dermal toxicity                      | :     | LD50 (Rat): ><br>Method: OECI<br>GLP: yes         | 5,000 mg/kg<br>) Test Guideline 402   |
| <u>Com</u> r           | oonents:                               |       |   |   |
| indox                  | (ISO):                                 |       |   |   |
| Acute                  | e oral toxicity                        | :     | Method: OECE<br>Target Organs                     | nale): 179 mg/kg<br>) Test Guideline 401<br>: Nervous system<br>poactivity, Tremors, ataxia, Fatality |
|                        |  |       | LD50 (Rat): 40                                    | 7 mg/kg   |
| Acute                  | inhalation toxicity                    | :     | LC50 (Rat): 4.:<br>Exposure time<br>Test atmosphe | : 4 h   |
|                        |  |       | LC50 (Rat): ><br>Exposure time<br>Test atmosphe   | :4 h  |
| Acute                  | e dermal toxicity                      | :     | GLP: yes  | 5,000 mg/kg<br>) Test Guideline 402<br>The substance or mixture has no acute dermal                   |



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|-----------------|------------------------------|---|
| calciu          | ım dodecylbenzene            | sulphonate:   |
| Acute           | oral toxicity                | : LD50 (Rat, male and female): 1,300 mg/kg<br>Remarks: Based on data from similar materials   |
| Acute           | inhalation toxicity          | : Remarks: Not classified   |
| Acute           | dermal toxicity              | <ul> <li>LD50 (Rat, male and female): &gt; 2000 milligram per kilogram<br/>Method: OECD Test Guideline 402<br/>Assessment: The substance or mixture has no acute dermal<br/>toxicity<br/>Remarks: Based on data from similar materials</li> </ul> |
| Fatty           | acids, soya, Me est          | ers:  |
| -               | oral toxicity                | : LD50 (Rat): 5,000 - 15,000 mg/kg  |
| Acute           | dermal toxicity              | : LD50 (Rabbit): 2,000 - 20,000 mg/kg   |
| 2-ethy          | /lhexan-1-ol:                |   |
| -               | oral toxicity                | : LD50 (Rat, male): 2,047 mg/kg   |
| Acute           | inhalation toxicity          | : LC50 (Rat): 4.3 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist  |
| Acute           | dermal toxicity              | <ul> <li>LD50 (Rat, male and female): &gt; 3,000 mg/kg<br/>Method: OECD Test Guideline 402<br/>Assessment: The substance or mixture has no acute dermal<br/>toxicity</li> </ul>   |
| Fatty           | acids, C6-10, Me es          | ers:  |
| Acute           | oral toxicity                | : LD50 (Rat): > 5,000 mg/kg   |
| Skin c          | corrosion/irritation         |   |
| Not cla         | assified based on ava        | ilable information.   |
| Produ           |                              |   |
| Specie<br>Metho |                              | : Rabbit<br>: OECD Test Guideline 404   |
| Result          |                              | : Mild skin irritation  |
| Rema            | rks                          | : May cause skin irritation and/or dermatitis.  |
| <u>Comp</u>     | onents:                      |   |
| indox           | acarb (ISO):                 |   |
| Specie          |                              | : Rabbit  |
| •               |                              | : OECD Test Guideline 404   |
| Metho           |                              |   |
| Result          | t                            | : No skin irritation  |
|                 | t                            | : No skin irritation<br>: yes   |



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|              |                              |                          |  |
| calciu       | ım dodecylbenzene            | sulphonate:              |  |
| Speci        |                              | : Rabbit                 |  |
| Metho        |                              | : OECD Test Gu           | uideline 404   |
| Resul        | t                            | : Skin irritation        |  |
| Fatty        | acids, soya, Me est          | ers:                     |  |
| Resul        | t                            | : slight irritation      |  |
| 2-ethy       | /lhexan-1-ol:                |                          |  |
| Speci        | es                           | : Rabbit                 |  |
| Metho        |                              | : OECD Test Gu           | uideline 404   |
| Resul        | t                            | : Skin irritation        |  |
| Fatty        | acids, C6-10, Me es          | sters:                   |  |
| Speci        | es                           | : Rabbit                 |  |
| Metho        |                              | : OECD Test Gu           | uideline 404   |
| Resul        | t                            | : Skin irritation        |  |
| Serio        | us eye damage/eye            | irritation               |  |
| Not cl       | assified based on av         | ailable information.     |  |
| <u>Produ</u> |                              |                          |  |
| Speci        |                              | : Rabbit                 |  |
| Resul        |                              | : No eye irritatio       |  |
|              | sment                        | : No eye irritatio       |  |
| Metho<br>GLP | DD                           | : OECD Test Gu<br>: yes  | lideline 405   |
| Rema         | rke                          |                          | cause irritation to the eyes, respiratory syst           |
| Rema         |                              | and the skin.            | ause initiation to the eyes, respiratory syst            |
| Comp         | oonents:                     |                          |  |
| indox        | acarb (ISO):                 |                          |  |
| Speci        | es                           | : Rabbit                 |  |
| Resul        |                              | : No eye irritatio       | n  |
|              | sment                        | : No eye irritatio       |  |
| Metho        | d                            | : OECD Test Gu           | uideline 405   |
| GLP          |                              | : yes                    |  |
| Rema         | rks                          | : Product dust n system. | nay be irritating to eyes, skin and respirator           |
| calciu       | ım dodecylbenzene            | sulphonate:              |  |
| Speci        |                              | : Rabbit                 |  |
| Resul        |                              |                          | ects on the eye  |
| Metho        |                              | : OECD Test Gu           |  |
| Rema         |                              |                          | from similar materials                                   |



| Species:RabitResult:irreversible effects on the eyeMethod:OECD Test Guideline 405Fatty acids, soya, Me esters:.Result:Irritation to eyes, reversing within 7 daysSpecies:RabitResult:Irritation to eyes, reversing within 21 daysMethod:OECD Test Guideline 405Fatty acids, C6-10, Me esters::Species:Result:Result:Result:Method:OECD Test Guideline 405Result:Method:Method:Method:Method:Method:Method:Method:Method:Method:May cause an allergic skin reaction.Result:May cause an allergic skin reaction.Result:May cause an allergic skin reaction.Result:May cause sensitisation by skin contact.Product:Result:Method:Method:Method:Method:Method:Method:Method:Method:Method:Method:Method:Method:Method <td:< td="">Method<td:< td="">Method<td:< td="">&lt;</td:<></td:<></td:<>  | rsion        | Revision Date:<br>02.08.2023 | SDS Number:<br>50000122 | Date of last issue: -<br>Date of first issue: 03.01.2018 |  |
|--|--------------|------------------------------|-------------------------|--|--|
| Result       ::       Irreversible effects on the eye         Method       ::       OECD Test Guideline 405         Fatty acids, soya, Me esters:       Result       ::         Result       ::       Irritation to eyes, reversing within 7 days         2-ethylhexan-1-ol:       Species       ::         Species       ::       Rabbit         Result       ::       Irritation to eyes, reversing within 21 days         Method       ::       OECD Test Guideline 405         Fatty acids, C6-10, Me esters:       Species       ::         Species       ::       Rabbit         Result       ::       Sight irritation         Method       ::       OECD Test Guideline 405         Respiratory or skin sensitisation       May cause an allergic skin reaction.         Respiratory sensitisation       May cause sensitisation by skin contact.         Not classified based on available information.       Producti:         Result       ::       May cause sensitisation by skin contact.         Species       ::       May cause sensitisation by skin contact.         Components:       :       May cause sensitisation by skin contact.         Test Type       ::       Buehler Test         Species       :       <   | Sneci        | 65                           | · Rabbit                |  |  |
| Method       :       OECD Test Guideline 405         Fatty acids, soya, Me esters:       Result       :         Result       :       Irritation to eyes, reversing within 7 days         2-ethylhexan-1-ol:       :       Species       :         Species       :       Rabbit         Result       :       OECD Test Guideline 405         Fatty acids, C6-10, Me esters:       :       Species         Species       :       :         Species       :       :         Method       :       OECD Test Guideline 405         Fatty acids, C6-10, Me esters:       :       Species         Species       :       :       Sight irritation         Method       :       OECD Test Guideline 405         Respiratory or skin sensitisation       May cause an allergic skin reaction.         Respiratory sensitisation       May cause sensitisation by skin contact.         May cause an allergic skin reaction.       Product:         Result       :       May cause sensitisation by skin contact.         Product:       :       May cause sensitisation by skin contact.         Species       :       Guinea pig         Method       :       OECD Test Guideline 406         Res   |              |                              |                         | fects on the eve   |  |
| <section-header>Fatty acids, soya, Me esters:<br/>ResultI ritation to eyes, reversing within 7 daysSettilExercisesRabbitMethodMe esters:<br/>MethodI ritation to eyes, reversing within 21 daysMethodMe esters:<br/>MethodMethodSeciesMethodMethodSeciesMethodMethodMethodMethodMethodSeciesMethodMethodMethodMethodMethodSeciesMethodMethodMethodMethodMethodMethodMethodMethodSeciesMethodMethodMay cause an allergic skin reaction.MethodSeciesMethodMethodMay cause an allergic skin reaction.MethodSeciesMethodMay cause sensitisation by skin contact.SeciesMethodMay cause sensitisation by skin contact.Components:<br/>MethodMethodMay cause sensitisation by skin contact.MethodMethodMay cause sensitisation by skin contact.MethodMay cause sensitisation by skin contact.&lt;</section-header>  |              |                              |                         |  |  |
| Result       : Irritation to eyes, reversing within 7 days         2-ethylhexan-1-ol:       : Rabbit         Result       : Irritation to eyes, reversing within 21 days         Method       : OCCD Test Guideline 405         Fatty acids, C6-10, Me esters:       :         Species       : Rabbit         Result       : Social acide ac   | Metho        |                              | . OLCD Test G           |  |  |
| 2-ethylhexan-1-ol:         Species       Rabbit         Result       Irritation to eyes, reversing within 21 days         Method       COECD Test Guideline 405         Fatty acids, C6-10, Me esters:       Species         Species       Rabbit         Result       Sight irritation         Method       COECD Test Guideline 405         Fatty acids, C6-10, Me esters:       Sight irritation         Method       Sight irritation         Method       COECD Test Guideline 405         Result       Sight irritation         May cause an allergic skin reaction.       Respiratory sensitisation         Not classified based on available information.       Product:         Result       May cause sensitisation by skin contact.         Product:       Result       May cause sensitisation by skin contact.         Product:       Secies       Guinea pig         Result       May cause sensitisation by skin contact.         Test Type       Buehler Test         Species       Guinea pig         Method       May cause sensitizer.         GLP       Yes         Test Type       Maximisation Test         Species       Guinea pig         Assessment       May cause sensiti  | -            | · • •                        |                         |  |  |
| Species       : Rabbit         Result       : Irritation to eyes, reversing within 21 days         Method       : OECD Test Guideline 405         Fatty acids, C6-10, Me esters:       Species         Species       : Rabbit         Result       : slight irritation         Method       : OECD Test Guideline 405         Result       : slight irritation         Method       : OECD Test Guideline 405         Respiratory or skin sensitisation       Skin sensitisation         Skin sensitisation       May cause an allergic skin reaction.         Respiratory sensitisation       Not classified based on available information.         Product:       Result       : May cause sensitisation by skin contact.         Result       : May cause sensitisation by skin contact.         Decies       : Guinea pig         Result       : May cause sensitisation by skin contact.         Test Type       : Guinea pig         Method       : OECD Test Guideline 406         Result       : Not a skin sensitizer.         GLP       : yes         Test Type       : Guinea p   | Resul        | lt                           | : Irritation to eye     | es, reversing within 7 days                              |  |
| Result       :       Irritation to eyes, reversing within 21 days         Method       :       OECD Test Guideline 405         Fatty acids, C6-10, Me esters:       Species       :         Species       :       Rabbit         Result       :       slight irritation         Method       :       OECD Test Guideline 405         Respiratory or skin sensitisation       Skin sensitisation         Skin sensitisation       May cause an allergic skin reaction.         Respiratory sensitisation       Not classified based on available information.         Product:       Result       :         Result       :       May cause sensitisation by skin contact.         Components:       indoxacarb (ISO):         Species       :       Guinea pig         Result       :       May cause sensitisation by skin contact.         Test Type       :       Buehler Test         Species       :       Guinea pig         Method       :       OECD Test Guideline 406         Result       :       yes         Test Type       :       Maximisation Test         Species       :       Guinea pig         Assessment       :       May cause sensitisation by skin contact. <td>2-eth</td> <td>ylhexan-1-ol:</td> <td></td> <td></td>   | 2-eth        | ylhexan-1-ol:                |                         |  |  |
| Result       :       Irritation to eyes, reversing within 21 days         Method       :       OECD Test Guideline 405         Fatty acids, C6-10, Me esters:       Species       :         Species       :       Rabbit         Result       :       slight irritation         Method       :       OECD Test Guideline 405         Respiratory or skin sensitisation       Skin sensitisation         Skin sensitisation       May cause an allergic skin reaction.         Respiratory sensitisation       Not classified based on available information.         Product:       Result       :         Result       :       May cause sensitisation by skin contact.         Components:       indoxacarb (ISO):         Species       :       Guinea pig         Result       :       May cause sensitisation by skin contact.         Test Type       :       Buehler Test         Species       :       Guinea pig         Method       :       OECD Test Guideline 406         Result       :       yes         Test Type       :       Maximisation Test         Species       :       Guinea pig         Assessment       :       May cause sensitisation by skin contact. <td>Speci</td> <td>es</td> <td>: Rabbit</td> <td></td>  | Speci        | es                           | : Rabbit                |  |  |
| Method       : OECD Test Guideline 405         Fatty acids, C6-10, Me esters:         Species       : Rabbit         Result       : slight irritation         Method       : OECD Test Guideline 405         Respiratory or skin sensitisation         Skin sensitisation         Skin sensitisation         May cause an allergic skin reaction.         Respiratory sensitisation         May cause an allergic skin reaction.         Respiratory sensitisation         Not classified based on available information.         Product:         Result       : May cause sensitisation by skin contact.         Demonents:         indoxacarb (ISO):         Species       : Guinea pig         Method       : OECD Test Guideline 406         Result       : DecD Test Guideline 406         Result       : OECD Test Guideline 406         Result       : OECD Test Guideline 406         Result       : DecD Test Guideline 406         Result       : OECD Test Guideline 406         Result       : DecD Test Guideline 406         Result       : DecD Test Guideline 005         Result       : May cause sensitisation by skin contact.   | Resul        | lt                           | : Irritation to eye     | es, reversing within 21 days                             |  |
| Species       : Rabbit         Result       : slight irritation         Method       : OECD Test Guideline 405         Respiratory or skin sensitisation         Skin sensitisation         May cause an allergic skin reaction.         Respiratory sensitisation         Not classified based on available information.         Product:         Result       : May cause sensitisation by skin contact.         Product:         Result       : May cause sensitisation by skin contact.         Components:         indoxacarb (ISO):         Species       : Guinea pig         Result       : May cause sensitisation by skin contact.         Test Type       : Buehler Test         Species       : Guinea pig         Method       : OECD Test Guideline 406         Result       : Not a skin sensitizer.         GLP       : yes         Test Type       : Maximisation Test         Species       : Guinea pig         Assessment       : Way cause sensitisation by skin contact.         Method       : Yes         Test Type       : May cause sensitisation by skin contact.         Method       : Yes         Result       : May cause sensitisation by skin contact   | Metho        | bd                           |                         |  |  |
| Result: slight irritation<br>MethodMethod: OECD Test Guideline 405Respiratory or skin sensitisation<br>May cause an allergic skin reaction.Respiratory sensitisation<br>May cause an allergic skin reaction.Respiratory sensitisation<br>Mot classified based on available information.Product:<br>Result: May cause sensitisation by skin contact.Product:<br>Result: May cause sensitisation by skin contact.Components:<br>indoxacarb (ISO):: Guinea pig<br>ResultSpecies: Guinea pig<br>ResultResult: May cause sensitisation by skin contact.Test Type: Buehler Test<br>SpeciesSpecies: Guinea pig<br>MethodMethod: OECD Test Guideline 406<br>ResultResult: Not a skin sensitizer.GLP: yesTest Type: Maximisation Test<br>SpeciesSpecies: Guinea pig<br>MethodMaximisation Test<br>Species: May cause sensitisation by skin contact.Method: US EPA Test Guideline OPPTS 870.2600<br>ResultResult: May cause sensitisation by skin contact.Method: yesRemarks: Causes sensitisation.  | Fatty        | acids, C6-10, Me es          | ters:                   |  |  |
| Result: slight irritation<br>MethodMethod: OECD Test Guideline 405Respiratory or skin sensitisation<br>May cause an allergic skin reaction.Respiratory sensitisation<br>May cause an allergic skin reaction.Respiratory sensitisation<br>Mot classified based on available information.Product:<br>Result: May cause sensitisation by skin contact.Product:<br>Result: May cause sensitisation by skin contact.Components:<br>indoxacarb (ISO):: Guinea pig<br>ResultSpecies: Guinea pig<br>ResultResult: May cause sensitisation by skin contact.Test Type: Buehler Test<br>SpeciesSpecies: Guinea pig<br>MethodMethod: OECD Test Guideline 406<br>ResultResult: Not a skin sensitizer.GLP: yesTest Type: Maximisation Test<br>SpeciesSpecies: Guinea pig<br>MethodMaximisation Test<br>Species: May cause sensitisation by skin contact.Method: US EPA Test Guideline OPPTS 870.2600<br>ResultResult: May cause sensitisation by skin contact.Method: yesRemarks: Causes sensitisation.  | •            |                              |                         |  |  |
| Method       : OECD Test Guideline 405         Respiratory or skin sensitisation         Skin sensitisation         May cause an allergic skin reaction.         Respiratory sensitisation         Not classified based on available information.         Product:         Result       : May cause sensitisation by skin contact.         Components:         indoxacarb (ISO):         Species       : Guinea pig         Result       : May cause sensitisation by skin contact.         Test Type       : Buehler Test         Species       : Guinea pig         Method       : OECD Test Guideline 406         Result       : Not a skin sensitizer.         GLP       : yes         Test Type       : Maximisation Test         Species       : Guinea pig         Method       : US EPA Test Guideline OPPTS 870.2600         Result       : US EPA Test Guideline OPPTS 870.2600         Result       : US EPA Test Guideline OPPTS 870.2600         Result       : Use sensitisation by skin contact.         Method       : US EPA Test Guideline OPPTS 870.2600         Result       : Way cause sensitisation by skin contact.         GLP       : Way         Remarks       : Causes sensitisation   |              |                              |                         |  |  |
| Skin sensitisation         May cause an allergic skin reaction.         Respiratory sensitisation         Not classified based on available information.         Product:         Result       May cause sensitisation by skin contact.         Components:         indoxacarb (ISO):         Species       É Guinea pig         Result       May cause sensitisation by skin contact.         Test Type       É Buehler Test         Species       É Guinea pig         Method       É OECD Test Guideline 406         Result       É Not a skin sensitizer.         GLP       É yes         Test Type       Maximisation Test         Species       Guinea pig         Assessment       May cause sensitisation by skin contact.         Method       E US EPA Test Guideline OPPTS 870.2600         Result       May cause sensitisation by skin contact.         Method       E US EPA Test Guideline OPPTS 870.2600         Result       May cause sensitisation by skin contact.         Method       E US EPA Test Guideline OPPTS 870.2600         Result       May cause sensitisation by skin contact.         Method       E yes         Remarks       Causes sensitisation.  |              | -                            |                         | uideline 405   |  |
| Skin sensitisation         May cause an allergic skin reaction.         Respiratory sensitisation         Not classified based on available information.         Product:         Result       may cause sensitisation by skin contact.         Components:         Indoxacarb (ISO):         Species       guinea pig         Result       May cause sensitisation by skin contact.         Test Type       guinea pig         Method       GECD Test Guideline 406         Result       Not a skin sensitizer.         GLP       guinea pig         Method       GECD Test Guideline 406         Result       Not a skin sensitizer.         GLP       guinea pig         Assessment       May cause sensitisation by skin contact.         Method       US EPA Test Guideline OPPTS 870.2600         Result       May cause sensitisation by skin contact.         Method       US EPA Test Guideline OPPTS 870.2600         Result       May cause sensitisation by skin contact.         Method       US EPA Test Guideline OPPTS 870.2600         Result       May cause sensitisation by skin contact.         GLP       Yes         Remarks       Cause sensitisation.         Method       Yes  | Resn         | iratory or skin sonsi        | tisation                |  |  |
| May cause an allergic skin reaction.Respiratory sensitisationNot classified based on available information.Product:Result: May cause sensitisation by skin contact.Components:indoxacarb (ISO):Species: Guinea pigResult: May cause sensitisation by skin contact.Test Type: Buehler TestSpecies: Guinea pigMethod: OECD Test Guideline 406Result: Not a skin sensitizer.GLP: gesTest Type: Guinea pigMethod: US EPA Test Guideline OPPTS 870.2600Result: US EPA Test Guideline OPPTS 870.2600Result: Way cause sensitisation by skin contact.Method: US EPA Test Guideline OPPTS 870.2600Result: May cause sensitisation by skin contact.Method: US EPA Test Guideline OPPTS 870.2600Result: May cause sensitisation by skin contact.GLP: gesRemarks: Causes sensitisation.   | -            | -                            | lisation                |  |  |
| Respiratory sensitisationNot classified based on available information.Product:<br>ResultKay cause sensitisation by skin contact.Result:May cause sensitisation by skin contact.Components:<br>indoxacarb (ISO):Species:Guinea pig<br>ResultResult:May cause sensitisation by skin contact.Test Type:Buehler Test<br>SpeciesSpecies:Guinea pig<br>MethodMethod:OECD Test Guideline 406<br>ResultResult:Not a skin sensitizer.GLP:yesTest Type:Maximisation Test<br>SpeciesSpecies:Guinea pig<br>AssessmentMassessment:May cause sensitisation by skin contact.Method:US EPA Test Guideline OPPTS 870.2600<br>ResultResult:Way cause sensitisation by skin contact.Method:Us EPA Test Guideline OPPTS 870.2600<br>ResultResult:Way cause sensitisation by skin contact.Method:yesRemarks:Causes sensitisation.  |              |                              | reaction.               |  |  |
| Not classified based on available information. <b>Product:</b><br>Result:May cause sensitisation by skin contact. <b>Components:</b><br>indoxacarb (ISO)::Species:Guinea pigResult:May cause sensitisation by skin contact.Test Type:Buehler TestSpecies:Guinea pigMethod:OECD Test Guideline 406Result:Not a skin sensitizer.GLP:yesTest Type:Maximisation TestSpecies:Guinea pigAssessment:Species of the sensitisation by skin contact.Method::Decision:Waximisation TestSpecies::GLP::Test Type:May cause sensitisation by skin contact.Method::Decision:May cause sensitisation by skin contact.Method:US EPA Test Guideline OPPTS 870.2600Result:May cause sensitisation by skin contact.Method:US EPA Test Guideline OPPTS 870.2600Result:Remarks:Causes sensitisation.Cause sensitisation.C  |              |                              |                         |  |  |
| Result: May cause sensitisation by skin contact.Components:indoxacarb (ISO):Species: Guinea pigResult: May cause sensitisation by skin contact.Test Type: Buehler TestSpecies: Guinea pigMethod: OECD Test Guideline 406Result: Not a skin sensitizer.GLP: YesTest Type: Maximisation TestSpecies: Guinea pigAssessment: May cause sensitisation by skin contact.Method: US EPA Test Guideline OPPTS 870.2600Result: May cause sensitisation by skin contact.Method: US EPA Test Guideline OPPTS 870.2600Result: May cause sensitisation by skin contact.GLP: YesRemarks: Causes sensitisation.  | •            | •                            |                         |  |  |
| Components:indoxacarb (ISO):Species: Guinea pigResult: May cause sensitisation by skin contact.Test Type: Buehler TestSpecies: Guinea pigMethod: OECD Test Guideline 406Result: Not a skin sensitizer.GLP: yesTest Type: May cause sensitisation by skin contact.Method: OECD Test Guideline 406Result: Not a skin sensitizer.GLP: yesTest Type: Maximisation TestSpecies: Guinea pigAssessment: May cause sensitisation by skin contact.Method: US EPA Test Guideline OPPTS 870.2600Result: May cause sensitisation by skin contact.GLP: yesRemarks: Causes sensitisation.calcium dodecylbenzenesulphonate:   | <u>Produ</u> | uct:                         |                         |  |  |
| indoxacarb (ISO):Species: Guinea pigResult: May cause sensitisation by skin contact.Test Type: Buehler TestSpecies: Guinea pigMethod: OECD Test Guideline 406Result: Not a skin sensitizer.GLP: yesTest Type: Maximisation TestSpecies: Guinea pigAssessment: May cause sensitisation by skin contact.Method: US EPA Test Guideline OPPTS 870.2600Result: May cause sensitisation by skin contact.Method: yesRemarks: Causes sensitisation.  | Resul        | lt                           | : May cause se          | nsitisation by skin contact.                             |  |
| Species<br>Result:Guinea pig<br>May cause sensitisation by skin contact.Test Type<br>Species:Buehler Test<br>Summary of Guinea pig<br>OECD Test Guideline 406<br>Result<br>GLP:Test Type<br>GLP:Not a skin sensitizer.<br>yesTest Type<br>Species:Maximisation Test<br>Guinea pig<br>Assessment<br>:Mathod<br>Result:Maximisation Test<br>Species<br>:Species<br>GLP:May cause sensitisation by skin contact.<br>May cause sensitisation by skin contact.Method<br>Result<br>GLP:US EPA Test Guideline OPPTS 870.2600<br>Result<br>:Remarks::Remarks:Causes sensitisation.   | Comp         | oonents:                     |                         |  |  |
| Result: May cause sensitisation by skin contact.Test Type: Buehler TestSpecies: Guinea pigMethod: OECD Test Guideline 406Result: Not a skin sensitizer.GLP: yesTest Type: Maximisation TestSpecies: Guinea pigAssessment: May cause sensitisation by skin contact.Method: US EPA Test Guideline OPPTS 870.2600Result: May cause sensitisation by skin contact.GLP: yes   | indox        | (ISO):                       |                         |  |  |
| Result: May cause sensitisation by skin contact.Test Type: Buehler TestSpecies: Guinea pigMethod: OECD Test Guideline 406Result: Not a skin sensitizer.GLP: yesTest Type: Maximisation TestSpecies: Guinea pigAssessment: May cause sensitisation by skin contact.Method: US EPA Test Guideline OPPTS 870.2600Result: May cause sensitisation by skin contact.GLP: yes   | Speci        | es                           | : Guinea pig            |  |  |
| Species:Guinea pigMethod:OECD Test Guideline 406Result:Not a skin sensitizer.GLP:yesTest Type:Maximisation TestSpecies:Guinea pigAssessment:May cause sensitisation by skin contact.Method:US EPA Test Guideline OPPTS 870.2600Result:May cause sensitisation by skin contact.GLP:yesRemarks:Causes sensitisation.calcium dodecylbenzenesulphonate:  | Resul        | lt                           |                         | nsitisation by skin contact.                             |  |
| Species:Guinea pigMethod:OECD Test Guideline 406Result:Not a skin sensitizer.GLP:yesTest Type:Maximisation TestSpecies:Guinea pigAssessment:May cause sensitisation by skin contact.Method:US EPA Test Guideline OPPTS 870.2600Result:May cause sensitisation by skin contact.GLP:yesRemarks:Causes sensitisation.calcium dodecylbenzenesulphonate:  | Test 1       | Гуре                         | : Buehler Test          |  |  |
| Method:OECD Test Guideline 406Result:Not a skin sensitizer.GLP:yesTest Type:Maximisation TestSpecies:Guinea pigAssessment:May cause sensitisation by skin contact.Method:US EPA Test Guideline OPPTS 870.2600Result:May cause sensitisation by skin contact.GLP:yesRemarks:Causes sensitisation.calcium dodecylbenzenesulphonate:  |              |                              |                         |  |  |
| Result:Not a skin sensitizer.GLP:yesTest Type:Maximisation TestSpecies:Guinea pigAssessment:May cause sensitisation by skin contact.Method:US EPA Test Guideline OPPTS 870.2600Result:May cause sensitisation by skin contact.GLP:yesRemarks:Causes sensitisation.calcium dodecylbenzenesulprote:  |              |                              |                         | uideline 406   |  |
| Test Type:Maximisation TestSpecies:Guinea pigAssessment:May cause sensitisation by skin contact.Method:US EPA Test Guideline OPPTS 870.2600Result:May cause sensitisation by skin contact.GLP:yesRemarks:Causes sensitisation.calcium dodecylbenzenesulphonate:  | Resul        | lt                           |                         |  |  |
| Species       : Guinea pig         Assessment       : May cause sensitisation by skin contact.         Method       : US EPA Test Guideline OPPTS 870.2600         Result       : May cause sensitisation by skin contact.         GLP       : yes         Remarks       : Causes sensitisation.         calcium dodecylbenzenesulptonate:   | GLP          |                              | : yes                   |  |  |
| Assessment:May cause sensitisation by skin contact.Method:US EPA Test Guideline OPPTS 870.2600Result:May cause sensitisation by skin contact.GLP:yesRemarks:Causes sensitisation.calcium dodecylbenzenesulphorate:   |              |                              |                         | Test   |  |
| Method       :       US EPA Test Guideline OPPTS 870.2600         Result       :       May cause sensitisation by skin contact.         GLP       :       yes         Remarks       :       Causes sensitisation.         calcium dodecylbenzenesulphorate:  | Speci        | es                           |                         |  |  |
| Result:May cause sensitisation by skin contact.GLP:yesRemarks:Causes sensitisation.calcium dodecylbenzenesulphotzenes |              |                              |                         |  |  |
| GLP       : yes         Remarks       : Causes sensitisation.         calcium dodecylbenzenesulphonate:  | Metho        | bd                           |                         |  |  |
| GLP       : yes         Remarks       : Causes sensitisation.         calcium dodecylbenzenesulphonate:  | Resul        | lt                           | : May cause se          | nsitisation by skin contact.                             |  |
| calcium dodecylbenzenesulphonate:  | GLP          |                              |                         | -  |  |
|  | Rema         | arks                         | : Causes sensit         | isation.   |  |
|  | calciu       | um dodecylbenzene            | sulphonate:             |  |  |
| ,, .   |              | -                            | -                       | Test   |  |



| ersion<br>2                      | Revision Date:<br>02.08.2023                | SDS Number:<br>50000122                                       | Date of last issue: -<br>Date of first issue: 03.01.2018  |  |  |  |  |
|----------------------------------|---|---|---|--|--|--|--|
| Specie<br>Metho<br>Resul<br>Rema | od<br>t                                     | : Not a skin se   | <ul> <li>Guinea pig</li> <li>OECD Test Guideline 406</li> <li>Not a skin sensitizer.</li> <li>Based on data from similar materials</li> </ul> |  |  |  |  |
| Fatty                            | acids, soya, Me est                         | ers:  |   |  |  |  |  |
| Resul                            |   |   | use skin sensitisation.   |  |  |  |  |
| Fatty                            | acids, C6-10, Me es                         | ters:   |   |  |  |  |  |
| Expos<br>Speci<br>Resul          |   | : Skin contact<br>: Guinea pig<br>: Not a skin se             | nsitizer.   |  |  |  |  |
| Chror                            | nic toxicity                                |   |   |  |  |  |  |
|                                  | cell mutagenicity<br>assified based on av   | ailable information.  |   |  |  |  |  |
|                                  | <b>ict:</b><br>cell mutagenicity -<br>sment |   | erial cultures did not show mutagenic effects.,<br>g did not show any mutagenic effects.  |  |  |  |  |
| Comp                             | oonents:                                    |   |   |  |  |  |  |
| indox                            | acarb (ISO):                                |   |   |  |  |  |  |
|                                  | oxicity in vitro                            | Metabolic ac  | everse mutation assay<br>tivation: with and without metabolic activation<br>CD Test Guideline 471<br>tive                                     |  |  |  |  |
| Genot                            | oxicity in vivo                             | Species: Mor  | CD Test Guideline 474   |  |  |  |  |
|                                  | cell mutagenicity -<br>sment                | : Tests on bac<br>mutagenic ef                                | terial or mammalian cell cultures did not show<br>fects.  |  |  |  |  |
| calciu                           | ım dodecylbenzene                           | sulphonate:   |   |  |  |  |  |
| Genot                            | oxicity in vitro                            | Method: OE0<br>Result: nega                                   | everse mutation assay<br>CD Test Guideline 471<br>tive<br>Ised on data from similar materials   |  |  |  |  |
| Genot                            | oxicity in vivo                             | Species: Rat<br>Application R<br>Exposure tim<br>Result: nega | ne: 90 d  |  |  |  |  |
| Germ                             | cell mutagenicity -                         | : Weight of evi   | idence does not support classification as a germ  |  |  |  |  |





| ersion<br>2                    | Revision Date:<br>02.08.2023         |           | 8 Number:<br>00122              | Date of last issue: -<br>Date of first issue: 03.01.2018 |
|--------------------------------|--------------------------------------|-----------|---------------------------------|--|
| Asses                          | ssment                               |           | cell mutagen.                   |  |
| 2-eth                          | ylhexan-1-ol:                        |           |                                 |  |
|                                | toxicity in vitro                    |           |                                 | verse mutation assay<br>D Test Guideline 471<br>ve       |
| Geno                           | Genotoxicity in vivo                 |           | Species: Mou                    | oute: Intraperitoneal injection                          |
| Fatty                          | acids, C6-10, Me est                 | ers:      |                                 |  |
| Geno                           | toxicity in vitro                    |           | Test Type: An<br>Result: negati |  |
|                                | cell mutagenicity -<br>ssment        | :         | In vitro tests d                | id not show mutagenic effects                            |
|                                | nogenicity<br>lassified based on ava | ilable ir | nformation.                     |  |
| <u>Produ</u><br>Carcii<br>ment | u <u>ct:</u><br>nogenicity - Assess- | : .       | Animal testing                  | did not show any carcinogenic effects.                   |
| <u>Com</u>                     | oonents:                             |           |                                 |  |
| indox                          | (ISO):                               |           |                                 |  |
| Carcii<br>ment                 | nogenicity - Assess-                 | :         | Animal testing                  | did not show any carcinogenic effects.                   |
| calciu                         | um dodecylbenzenes                   | ulphoi    | nate:                           |  |
| Speci                          | es                                   | :         | Rat, male and                   | female   |
|                                | cation Route                         |           | Oral                            |  |
| Expo:<br>NOAE                  | sure time                            |           | 720 d<br>250 mg/kg bo           | dyweight   |
| Resu                           |                                      |           | 250 mg/kg bo<br>negative        | dy weight  |
| Rema                           |                                      |           |                                 | a from similar materials                                 |
| Carcii<br>ment                 | nogenicity - Assess-                 |           | Weight of evic<br>cinogen       | lence does not support classification as a car-          |
| Fatty                          | acids, soya, Me este                 | rs:       |                                 |  |
| Carcii<br>ment                 | nogenicity - Assess-                 |           | Weight of evic<br>cinogen       | lence does not support classification as a car-          |
| 2 ath                          |                                      |           |                                 |  |
| z-eth                          | ylhexan-1-ol:                        |           |                                 |  |
| Speci                          | -                                    | :         | Rat                             |  |



| sion                    | Revision Date:<br>02.08.2023                 |        | 0S Number:<br>000122   | Date of last issue: -<br>Date of first issue: 03.01.2018  |
|-------------------------|--|--------|--|---|
| Expos<br>Resul          | sure time<br>t                               | :      | 24 month(s)<br>negative  |   |
| -                       | oductive toxicity<br>assified based on avail | lable  | information  |   |
|                         |  | able   | information.   |   |
| Produ<br>Repro<br>sessm | oductive toxicity - As-                      | :      | Weight of evid<br>ductive toxicity                               | ence does not support classification for repro-   |
| <u>Comp</u>             | oonents:                                     |        |  |   |
| indox                   | acarb (ISO):                                 |        |  |   |
| Repro<br>sessn          | oductive toxicity - As-<br>nent              | :      | or on developr   | f adverse effects on sexual function and fertili<br>nent, based on animal experiments.<br>did not show any effects on foetal develop- |
| calciu                  | um dodecylbenzenesi                          | ulpho  | onate:   |   |
| Effect                  | s on fertility                               | :      | Species: Rat, I<br>Application Ro<br>General Toxici              | ty - Parent: NOAEL: 400 mg/kg body weight<br>) Test Guideline 422   |
| Effect<br>ment          | s on foetal develop-                         | :      | Species: Rat<br>Application Ro<br>General Toxici<br>Developmenta | ty Maternal: NOAEL: 300 mg/kg body weight<br>I Toxicity: NOAEL: 600 mg/kg body weight<br>) Test Guideline 422                         |
| Repro<br>sessn          | oductive toxicity - As-<br>nent              | :      | Weight of evid<br>ductive toxicity                               | ence does not support classification for repro-   |
| 2-eth                   | ylhexan-1-ol:                                |        |  |   |
| -                       | s on foetal develop-                         | :      | Species: Mous<br>Application Ro                                  | ute: Oral<br>) Test Guideline 414   |
| sтот                    | - single exposure                            |        |  |   |
| May c                   | ause damage to organ                         | is (Ce | entral nervous s   | ystem).   |
| Produ                   | uct:   |        |  |   |
| Asses                   | sment  | :      |  | or mixture is not classified as specific target single exposure.  |



| sion             | Revision Date:<br>02.08.2023 | SDS Number:<br>50000122                      | Date of last issue: -<br>Date of first issue: 03.01.2018                       |
|------------------|------------------------------|--|--|
| <u>Comp</u>      | onents:                      |  |  |
| indoxa           | acarb (ISO):                 |  |  |
|                  | Organs                       | : Central nervo                              | us svetem  |
| Asses            |                              | : The substance                              | e or mixture is classified as specific target orga<br>le exposure, category 2. |
| 2-ethv           | lhexan-1-ol:                 |  |  |
| Asses            |                              | · May cause re                               | spiratory irritation.  |
| , 10000          |                              | . may cauce to                               |  |
|                  | - repeated exposu            |  |  |
|                  | 0 0                          | (Blood, Nervous syst                         | em) through prolonged or repeated exposure.                                    |
| <u>Comp</u>      | onents:                      |  |  |
|                  | acarb (ISO):                 |  |  |
| Target<br>Asses  | : Organs<br>sment            | : Blood, Nervo<br>: Causes dama<br>exposure. | us system<br>age to organs through prolonged or repeated                       |
| Repea            | ted dose toxicity            |  |  |
| <u>Comp</u>      | onents:                      |  |  |
| indoxa           | acarb (ISO):                 |  |  |
| Specie           | es                           | : Rat, female                                |  |
| NOAE             | L                            | : 3.28 mg/kg                                 |  |
| LOAEI            | L                            | : 7.53 mg/kg                                 |  |
| Applica          | ation Route                  | : Oral                                       |  |
| Expos            | ure time                     | : 90 d                                       |  |
| Metho            | d                            | : OECD Test G                                | Guideline 408  |
| GLP              |                              | : yes  |  |
| Target           | Organs                       | : Blood                                      |  |
| calciu           | m dodecylbenzene             | esulphonate:                                 |  |
| Specie           |                              | : Rat, male and                              | d female   |
| NOAE             |                              | : 85 mg/kg                                   |  |
| LOAEI            |                              | : 145 mg/kg                                  |  |
|                  | ation Route                  | : Oral                                       |  |
|                  | ure time                     | : 9 Months                                   |  |
| Rema             | rks                          | : Based on dat                               | a from similar materials   |
| Specie           |                              | : Rat, male                                  |  |
| LOAEI            |                              | : 286 mg/kg                                  |  |
|                  | ation Route                  | : Skin contact                               |  |
|                  | ure time                     | : 15 Days                                    |  |
| Rema             | rks                          | : Based on dat                               | a from similar materials   |
| Specie           |                              | : Rat, male and                              |  |
| NOAE             |                              | : 100 mg/kg bv                               |  |
|                  |                              | : 200 mg/kg bv                               |  |
| LOAEI            |                              |  |  |
| LOAEI<br>Applica | ation Route<br>ure time      | : Oral - gavage<br>: 28 - 54 days            | ,  |



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|                | thod<br>narks                          | :     | OECD Test Guid<br>Based on data fro             | eline 422<br>om similar materials                        |
| 2-e            | thylhexan-1-ol:                        |       |   |  |
| Spe            | ecies                                  | :     | Rat   |  |
| Exp            | blication Route<br>posure time<br>thod | :     | 250 mg/kg<br>Oral<br>13 weeks<br>OECD Test Guid | eline 408  |
| Asj            | piration toxicity                      |       |   |  |
| Not            | classified based on avail              | able  | information.                                    |  |
|                | duct:<br>aspiration toxicity classific | catio | n   |  |
| Fur            | ther information                       |       |   |  |
| Pro            | duct:                                  |       |   |  |
| Rer            | narks                                  | :     | No data available                               | 9  |
| Co             | mponents:                              |       |   |  |
| ind            | oxacarb (ISO):                         |       |   |  |
| Rer            | marks                                  | :     | No data available                               | 3  |
|                |  |       |   |  |

#### Section 12: Ecological information

| Ecotoxicity   |   |   |
|---|---|---|
| Product:  |   |   |
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 7.0 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Method: OECD Test Guideline 203<br>GLP: yes                |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 1.67 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Method: OECD Test Guideline 202<br>GLP: yes                        |
| Toxicity to algae/aquatic<br>plants                 | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): > 16<br>mg/l<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201<br>GLP: yes |



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|                 | oxicology Assessment                         | :        | This product has a  | no known ecotoxicological effects.                       |
|                 |  | •        |   | to known ecoloxicological effects.                       |
| -               | oonents:                                     |          |   |  |
|                 | <b>(acarb (ISO):</b><br>ity to fish          | :        | LC50 (Oncorhync<br>Exposure time: 96<br>Test Type: flow-th<br>Method: OECD Te<br>GLP: yes | rough test   |
|                 | ity to daphnia and other<br>ic invertebrates | :        | EC50 (Daphnia m<br>Exposure time: 48  | agna (Water flea)): 0.6 mg/l<br>5 h                      |
| M-Fa<br>icity)  | ctor (Acute aquatic tox-                     | :        | 1   |  |
| Toxic<br>icity) | ity to fish (Chronic tox-                    | :        | NOEC (Oncorhyn<br>Exposure time: 90<br>Test Type: Early L<br>Method: OECD Te<br>GLP: yes  | .ife-Stage   |
|                 | ic invertebrates (Chron-                     | :        | NOEC (Daphnia r<br>Exposure time: 21<br>Method: OECD Te<br>GLP: yes                       |  |
| M-Fa<br>toxicit | ctor (Chronic aquatic<br>ty)                 | :        | 1   |  |
| Toxic<br>ganis  | ity to soil dwelling or-<br>ms               | :        | LC50 (Eisenia feti<br>Exposure time: 14<br>Method: OECD Te<br>GLP: yes                    |  |
| Toxic<br>isms   | ity to terrestrial organ-                    | :        | LD50 (Apis mellife<br>End point: Acute o  | era (bees)): 0.216 μg/bee<br>oral toxicity               |
|                 |  |          | LD50 (Colinus vir   | ginianus (Bobwhite quail)): 152 mg/kg                    |
|                 |  |          | LD50 (Apis mellife<br>End point: Acute o  | era (bees)): 0.094 μg/bee<br>contact toxicity            |
|                 |  |          | LD50 (Colinus viro  | ginianus (Bobwhite quail)): 98 mg/kg                     |
|                 | um dodecylbenzenesul<br>ity to fish          | pho<br>: | LC50 (Danio rerio<br>Exposure time: 96<br>Method: OECD Te                                 |  |
|                 |  |          | LC50 (Pimephales  | s promelas (fathead minnow)): 4.6 mg/l                   |
|                 |  |          | 17 / 24   |  |



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|-----------------|--|---|--|---|
|                 |  |   | Exposure time: 90<br>Remarks: Based                      | 6 h<br>on data from similar materials   |
|                 | ity to daphnia and other<br>tic invertebrates                    | : | Exposure time: 48<br>Method: OECD T                      | nagna (Water flea)): 3.5 mg/l<br>3 h<br>est Guideline 202<br>on data from similar materials |
| Toxic<br>plants | bity to algae/aquatic<br>s                                       | : | mg/l<br>Exposure time: 72<br>Method: OECD T              |   |
|                 |  |   | mg/l<br>Exposure time: 72<br>Method: OECD T              |   |
|                 | tity to daphnia and other<br>tic invertebrates (Chron-<br>icity) | : | Exposure time: 2   | magna (Water flea)): 1.65 mg/l<br>1 d<br>on data from similar materials                     |
|                 |  |   | Exposure time: 2   | magna (Water flea)): 1.18 mg/l<br>1 d<br>on data from similar materials                     |
| Toxic           | ity to microorganisms  | : | EC50 (activated s<br>Exposure time: 3<br>Method: OECD T  | h   |
| Toxic<br>ganis  | rity to soil dwelling or-  | : | LC50 (Eisenia fet<br>Exposure time: 14<br>Method: OECD T |   |
| Toxic<br>isms   | ity to terrestrial organ-  | : | LD50 (Colinus vir<br>Exposure time: 14<br>Method: OECD T |   |
| Fatty           | v acids, soya, Me esters   | : |  |   |
| Toxic           | to fish  | : | LC50 (Fish): > 1,0<br>Exposure time: 90                  |   |
|                 |  |   | LC50 (Leuciscus<br>Exposure time: 44<br>Method: ISO 734  |   |
|                 | ity to daphnia and other<br>tic invertebrates                    | : | EC50 (Crustacea<br>Exposure time: 48                     | ns): 800 - 5,243 mg/l<br>3 h  |
| 2-eth           | ylhexan-1-ol:  |   |  |   |
| Toxic           | sity to fish   | : | LC50 (Leuciscus<br>Exposure time: 96                     | idus (Golden orfe))։ 17.1 - 28.2 mg/l<br>ծ h  |



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|               |                    |                                    |     |  |   |
|               |                    | to daphnia and other invertebrates | :   | EC50 (Daphnia m<br>Exposure time: 48   | agna (Water flea)): 39 mg/l<br>⊦h   |
|               | Toxicity<br>plants | to algae/aquatic                   | :   | EC10 (Desmodes<br>Exposure time: 72    | mus subspicatus (green algae)): 3.2 mg/l<br>! h                               |
|               |                    |                                    |     | EC50 (Desmodes<br>Exposure time: 72    | mus subspicatus (green algae)): 11.5 mg/l<br>! h                              |
| T             | Toxicity           | to microorganisms                  | :   | EC50 (Anabaena<br>Exposure time: 72    | flos-aquae (cyanobacterium)): 16.6 mg/l<br>! h                                |
| F             | Fattv a            | cids, C6-10, Me ester              | s:  |  |   |
|               | Toxicity           |                                    | :   |  | dus (Golden orfe)): 95 mg/l   |
|               |                    |                                    |     | Exposure time: 48<br>Remarks: Based o  | h<br>on data from similar materials   |
|               |                    | to daphnia and other invertebrates | :   |  | s fasciatus (freshwater shrimp)): 14.7 mg/l<br>on data from similar materials |
| F             | Persist            | ence and degradabili               | ity |  |   |
| <u>(</u>      | Compo              | onents:                            |     |  |   |
|               |                    | carb (ISO):                        |     |  |   |
| E             | Biodegr            | adability                          | :   | Result: Not readily                    | / biodegradable.  |
| c             | calciun            | n dodecylbenzenesul                | phc | onate:                                 |   |
| E             | Biodegr            | adability                          | :   | Result: Readily bio<br>Method: OECD Te | odegradable.<br>est Guideline 301E  |
| F             | Fatty a            | cids, soya, Me esters              | :   |  |   |
| E             | Biodegr            | adability                          | :   | Result: Readily bio                    | odegradable.  |
| 2             | 2-ethyl            | hexan-1-ol:                        |     |  |   |
| E             | Biodegr            | adability                          | :   | Result: Readily bio                    | odegradable.  |
| F             | Fatty a            | cids, C6-10, Me ester              | s:  |  |   |
| E             | Biodegr            | adability                          | :   | Result: Readily bio                    | odegradable.  |
| E             | Bioacc             | umulative potential                |     |  |   |
| <u>F</u>      | Produc             | <u>t:</u>                          |     |  |   |
| E             | Bioaccu            | umulation                          | :   | Remarks: Does no<br>Estimation based   | ot bioaccumulate.<br>on data obtained on active ingredient.                   |
|               |                    |                                    |     | Remarks: No data                       | available   |
|               |                    |                                    |     |  |   |



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|-----------------|--|------|---|---|
| <u>Com</u>      | ponents:                                 |      |   |   |
| indox           | (ISO):                                   |      |   |   |
| Bioac           | cumulation                               | :    | Bioconcentration<br>Exposure time:                | is macrochirus (Bluegill sunfish)<br>n factor (BCF): 77.3<br>21 d<br>Test Guideline 305                 |
|                 | ion coefficient: n-<br>ol/water          | :    | log Pow: 0.57 (2                                  | 0 °C)   |
| calci           | um dodecylbenzenesu                      | lpho | onate:  |   |
| Bioac           | cumulation                               | :    | Species: Fish<br>Bioconcentration<br>Method: QSAR | n factor (BCF): 70.79   |
|                 | ion coefficient: n-<br>ol/water          | :    | log Pow: 4.77 (2                                  | 25 °C)  |
| Fatty           | acids, soya, Me ester                    | s:   |   |   |
| Bioac           | cumulation                               | :    | Remarks: Bioac                                    | cumulation is unlikely.   |
| 2-eth           | ylhexan-1-ol:                            |      |   |   |
|                 | ion coefficient: n-<br>ol/water          | :    | log Pow: 2.9 (25                                  | ο°C)  |
| Mobi            | lity in soil                             |      |   |   |
| Com             | ponents:                                 |      |   |   |
| indox           | cacarb (ISO):                            |      |   |   |
|                 | bution among environ-<br>al compartments | :    | Koc: 4483 ml/g,<br>Remarks: Low n                 |   |
| Othe            | r adverse effects                        |      |   |   |
| Prod            | uct:                                     |      |   |   |
| Additi<br>matio | ional ecological infor-<br>n             | :    |   | el for additional application instructions rela<br>ental precautions.                                   |
|                 |  |      | unprofessional h                                  | al hazard cannot be excluded in the event c<br>nandling or disposal.<br>life with long lasting effects. |

#### Section 13: Disposal considerations

| Disposal methods    |   |
|---------------------|---|
| Waste from residues | <ul> <li>The product should not be allowed to enter drains, water<br/>courses or the soil.</li> <li>Do not contaminate ponds, waterways or ditches with chemi-</li> </ul> |



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|                |                              | cal or used co<br>Send to a licer                                     | ntainer.<br>nsed waste management company.                            |
| Conta          | aminated packaging           | Packaging tha<br>the unused pro<br>Empty contain<br>dling site for re | empty containers.<br>t is not properly emptied must be disposed of as |

#### Section 14: Transport information

#### **International Regulations**

| <b>UNRTDG</b><br>UN number<br>Proper shipping name                                      | UN 3082<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII<br>N.O.S.                 | D, |
|---|--|----|
| Class<br>Packing group<br>Labels  | (Indoxacarb)<br>9<br>III<br>9  |    |
| <b>IATA-DGR</b><br>UN/ID No.<br>Proper shipping name                                    | UN 3082<br>Environmentally hazardous substance, liquid, n.o.s.<br>(Indoxacarb)   |    |
| Class<br>Packing group<br>Labels<br>Packing instruction (cargo                          | 9<br>III<br>Miscellaneous<br>964   |    |
| aircraft)<br>Packing instruction (passen-<br>ger aircraft)<br>Environmentally hazardous | 964<br>yes   |    |
| <b>IMDG-Code</b><br>UN number<br>Proper shipping name                                   | UN 3082<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII<br>N.O.S.<br>(Indoxacarb) | D, |
| Class<br>Packing group<br>Labels<br>EmS Code<br>Marine pollutant                        | 9<br>III<br>9<br>F-A, S-F<br>yes   |    |

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

Not applicable for product as supplied.

#### **National Regulations**

NZS 5433 UN number

: UN 3082



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|----------------|------------------------------|--------------------------------------|--|
| Prope          | er shipping name             | : ENVIRONMI<br>N.O.S.<br>(Indoxacarb | ENTALLY HAZARDOUS SUBSTANCE, LIQUID,                     |
| Class          |                              | : 9                                  |  |
| Packi<br>Label | ing group                    | : III<br>: 9                         |  |
|                | s<br>hem Code                | : 3Z                                 |  |
| 11820          |                              | . 02                                 |  |

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

Section 15: Regulatory information

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

#### **HSNO Approval Number**

HSR000583 ACVM Number: P009271

| The components of this pro- | duc | ct are reported in the following inventories:   |
|-----------------------------|-----|---|
| TCSI                        | :   | On the inventory, or in compliance with the inventory   |
| TSCA                        | :   | Product contains substance(s) not listed on TSCA inventory.   |
| AIIC                        | :   | Not in compliance with the inventory  |
| DSL                         | :   | This product contains the following components that are not on the Canadian DSL nor NDSL.   |
|                             |     | METHYL (S)-7-CHLORO-2,3,4A,5-TETRAHYDRO-2-<br>{(METHOXYCARBONYL)[4-<br>(TRIFLUOROMETHOXY)PHENYL]CARBAMOYL}INDENO[1,<br>2-E][1,3,4]OXADIAZINE-4A-CARBOXYLATE<br>Fatty acids, C8-10, Me esters<br>Fatty acids, C6-10, Me esters |
| ENCS                        | :   | Not in compliance with the inventory  |
| ISHL                        | :   | Not in compliance with the inventory  |
| KECI                        | :   | Not in compliance with the inventory  |
| PICCS                       | :   | Not in compliance with the inventory  |
| IECSC                       | :   | Not in compliance with the inventory  |
| NZIoC                       | :   | Not in compliance with the inventory  |
| TECI                        | :   | Not in compliance with the inventory  |



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#### Section 16: Other information

| Revision Date : 02.0 |
|----------------------|
|----------------------|

Date format : dd.mm.yyyy

#### Full text of other abbreviations

| 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 - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; 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

#### Disclaimer

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