

**Safety Data Sheet**

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
SDS ID: 31524  
Issue date: 11/17/2023 Version: 1.0

**SECTION 1: Identification****1.1. Identification**

Product form : Mixture  
Product name : Develon Synthetic Automatic Transmission Fluid Heavy Duty

**1.2. Recommended use and restrictions on use**

No additional information available

**1.3. Supplier**

Develon  
2905 Shawnee Industrial Way  
Suwanee, GA 30024  
USA  
T (678) 714-6000

**1.4. Emergency telephone number**

Emergency number : 1-800-424-9300 (CHEMTREC)

**SECTION 2: Hazard(s) identification****2.1. Classification of the substance or mixture****GHS US classification**

Not classified

**2.2. GHS Label elements, including precautionary statements****GHS US labeling**

No labeling applicable

**2.3. Other hazards which do not result in classification**

No additional information available

**2.4. Unknown acute toxicity (GHS US)**

No additional information available

**SECTION 3: Composition/Information on ingredients****3.1. Substances**

Not applicable

**3.2. Mixtures**

| Name                                       | Product identifier  | %       | GHS US classification |
|--|---------------------|---------|-----------------------|
| 1-DECENE, TETRAMER AND TRIMER HYDROGENATED | CAS-No.: 68649-12-7 | 20 - 30 | Asp. Tox. 1, H304     |
| DIISOCTYL ADIPATE                          | CAS-No.: 1330-86-5  | 10 - 20 | Not classified        |

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| Name  | Product identifier    | %            | GHS US classification   |
|---|-----------------------|--------------|---|
| ALKYL METHACRYLATE, ALKYLAMINOALKYLMETHACRYLAMIDE COPOLYMER | CAS-No.: TRADE SECRET | 1 - 5        | Eye Irrit. 2A, H319<br>Aquatic Chronic 4, H413  |
| 2,6-DI-TERT-BUTYLPHENOL                                     | CAS-No.: 128-39-2     | 0.1 - 1      | Skin Irrit. 2, H315<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| BIS(2-HYDROXYETHYL) TALLOW AMINE                            | CAS-No.: 61791-44-4   | 0.025 - 0.1  | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1C, H314<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                    |
| 1H-IMIDAZOLE-1-ETHANOL, 2-(8-HEPTADECENYL)-4,5-DIHYDRO      | CAS-No.: 95-38-5      | 0.01 - 0.025 | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1C, H314<br>STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| N,N-DIMETHYLOCTADECAN-1-AMINE                               | CAS-No.: 124-28-7     | 0.01 - 0.025 | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1B, H314<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                    |

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

No additional information available

#### 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

No additional information available

#### 5.2. Specific hazards arising from the chemical

No additional information available

#### 5.3. Special protective equipment and precautions for fire-fighters

No additional information available

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### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

No additional information available

#### 6.3. Methods and material for containment and cleaning up

No additional information available

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

No additional information available

#### 7.2. Conditions for safe storage, including any incompatibilities

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

No additional information available

#### 8.3. Individual protection measures/Personal protective equipment

No additional information available

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|                |                     |
|----------------|---------------------|
| Physical state | : Liquid            |
| Color          | : red               |
| Odor           | : characteristic    |
| Odor threshold | : No data available |
| pH             | : No data available |
| Melting point  | : No data available |
| Freezing point | : No data available |
| Boiling point  | : No data available |
| Flash point    | : 230 °C            |

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|   |                                |
|---|--------------------------------|
| Relative evaporation rate (butyl acetate=1)     | : No data available            |
| Flammability (solid, gas)                       | : No data available            |
| Vapor pressure                                  | : No data available            |
| Relative vapor density at 20°C                  | : No data available            |
| Relative density                                | : 0.847 @ 15.6°C               |
| Solubility                                      | : No data available            |
| Partition coefficient n-octanol/water (Log Pow) | : No data available            |
| Auto-ignition temperature                       | : No data available            |
| Decomposition temperature                       | : No data available            |
| Viscosity, kinematic                            | : 36 mm <sup>2</sup> /s @ 40°C |
| Viscosity, dynamic                              | : No data available            |
| Explosion limits                                | : No data available            |
| Explosive properties                            | : No data available            |
| Oxidizing properties                            | : No data available            |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

#### 1H-IMIDAZOLE-1-ETHANOL, 2-(8-HEPTADECENYL)-4,5-DIHYDRO (95-38-5)

|               |                       |
|---------------|-----------------------|
| ATE US (oral) | 500 mg/kg body weight |
|---------------|-----------------------|

#### DIISOCTYL ADIPATE (1330-86-5)

|                    |   |
|--------------------|---|
| LD50 dermal rabbit | > 7940 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Read-across, Dermal, 14 day(s)) |
|--------------------|---|

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| <b>DIISOCTYL ADIPATE (1330-86-5)</b>                 |  |
|--|--|
| LC50 Inhalation - Rat                                | > 5.7 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Read-across, Inhalation, 14 week(s))   |
| <b>N,N-DIMETHYLOCTADECAN-1-AMINE (124-28-7)</b>      |  |
| LD50 dermal rabbit                                   | 3432 mg/kg Source: USEPA / HPV   |
| ATE US (oral)  | 500 mg/kg body weight  |
| ATE US (dermal)                                      | 3432 mg/kg body weight   |
| <b>2,6-DI-TERT-BUTYLPHENOL (128-39-2)</b>            |  |
| LD50 dermal rat                                      | > 1000 mg/kg Source: IUCLID  |
| <b>BIS(2-HYDROXYETHYL) TALLOW AMINE (61791-44-4)</b> |  |
| ATE US (oral)  | 500 mg/kg body weight  |
| Skin corrosion/irritation                            | : Not classified   |
| <b>N,N-DIMETHYLOCTADECAN-1-AMINE (124-28-7)</b>      |  |
| pH   | 10 (Test data, 5 %, 20 °C)   |
| <b>2,6-DI-TERT-BUTYLPHENOL (128-39-2)</b>            |  |
| pH   | No data available in the literature  |
| Serious eye damage/irritation                        | : Not classified   |
| <b>N,N-DIMETHYLOCTADECAN-1-AMINE (124-28-7)</b>      |  |
| pH   | 10 (Test data, 5 %, 20 °C)   |
| <b>2,6-DI-TERT-BUTYLPHENOL (128-39-2)</b>            |  |
| pH   | No data available in the literature  |
| Respiratory or skin sensitization                    | : Not classified   |
| Germ cell mutagenicity                               | : Not classified   |
| Carcinogenicity                                      | : Not classified   |
| <b>N,N-DIMETHYLOCTADECAN-1-AMINE (124-28-7)</b>      |  |
| NOAEL (chronic,oral,animal/male,2 years)             | 42.3 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)                  |
| NOAEL (chronic,oral,animal/female,2 years)           | 52.6 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)                |
| Reproductive toxicity                                | : Not classified   |
| <b>DIISOCTYL ADIPATE (1330-86-5)</b>                 |  |
| LOAEL (animal/male, F0/P)                            | 2102 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]   |
| LOAEL (animal/female, F0/P)                          | 2399 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] |
| LOAEL (animal/male, F1)                              | 2102 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]   |
| LOAEL (animal/female, F1)                            | 2399 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] |

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| <b>DIISOCTYL ADIPATE (1330-86-5)</b> |   |
|--------------------------------------|---|
| NOAEL (animal/male, F1)              | 178 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]   |
| NOAEL (animal/female, F1)            | 203 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)] |
| STOT-single exposure                 | : Not classified  |
| STOT-repeated exposure               | : Not classified  |

| <b>1H-IMIDAZOLE-1-ETHANOL, 2-(8-HEPTADECENYL)-4,5-DIHYDRO (95-38-5)</b> |  |
|---|--|
| STOT-repeated exposure  | May cause damage to organs through prolonged or repeated exposure. |

| <b>DIISOCTYL ADIPATE (1330-86-5)</b>          |  |
|---|--|
| NOAEL (subchronic,oral,animal/male,90 days)   | 200 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)   |
| NOAEL (subchronic,oral,animal/female,90 days) | 387 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |

| <b>2,6-DI-TERT-BUTYLPHENOL (128-39-2)</b> |  |
|---|--|
| NOAEL (oral,rat,90 days)                  | 100 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)) |

Aspiration hazard : Not classified  
Viscosity, kinematic : 36 mm<sup>2</sup>/s @ 40°C

| <b>DIISOCTYL ADIPATE (1330-86-5)</b> |  |
|--------------------------------------|--|
| Viscosity, kinematic                 | 14.5 mm <sup>2</sup> /s (25 °C, ASTM D445: Capillary viscometer) |

| <b>N,N-DIMETHYLOCTADECAN-1-AMINE (124-28-7)</b> |  |
|---|--|
| Viscosity, kinematic                            | 8.19 mm <sup>2</sup> /s (30 °C, OECD 114: Viscosity of Liquids, Test data) |

| <b>2,6-DI-TERT-BUTYLPHENOL (128-39-2)</b> |                        |
|---|------------------------|
| Viscosity, kinematic                      | Not applicable (solid) |

## SECTION 12: Ecological information

### 12.1. Toxicity

| <b>1-DECENE, TETRAMER AND TRIMER HYDROGENATED (68649-12-7)</b> |  |
|--|--|
| LC50 - Fish [1]  | > 1000 mg/l Source: e-ChemPortal;HPVIS   |
| EC50 96h - Algae [1]   | > 1000 mg/l Source: e-ChemPortal;HPVIS   |
| <b>DIISOCTYL ADIPATE (1330-86-5)</b>                           |  |
| LC50 - Fish [1]  | 5500 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Read-across)           |
| LC50 - Other aquatic organisms [1]                             | 0.000794 mg/l Source: QSAR   |
| EC50 - Crustacea [1]   | > 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Read-across) |

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| <b>DIISOCTYL ADIPATE (1330-86-5)</b>                                    |  |
|---|--|
| EC50 72h - Algae [1]  | > 46 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP)                  |
| EC50 72h - Algae [2]  | > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Scenedesmus subspicatus, Static system, Fresh water, Read-across)                              |
| EC50 96h - Algae [1]  | 0.003 mg/l Source: QSAR  |
| <b>N,N-DIMETHYLOCTADECAN-1-AMINE (124-28-7)</b>                         |  |
| LC50 - Fish [1]   | 0.256 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Read-across, Nominal concentration)           |
| EC50 - Crustacea [1]  | 55.8 µg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Read-across)                     |
| EC50 72h - Algae [1]  | 14.1 µg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration) |
| LOEC (chronic)  | 0.108 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| <b>2,6-DI-TERT-BUTYLPHENOL (128-39-2)</b>                               |  |
| LC50 - Fish [1]   | 1.4 mg/l (ASTM E729-80, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)                                   |
| EC50 - Crustacea [1]  | 0.45 mg/l (US EPA, 48 h, Daphnia magna, Flow-through system, Fresh water, Experimental value, Locomotor effect)                                    |
| EC50 72h - Algae [1]  | 3.6 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)           |
| EC50 72h - Algae [2]  | 1.4 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)           |
| EC50 96h - Algae [1]  | 3.9 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)           |
| EC50 96h - Algae [2]  | 1.2 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)           |
| LOEC (chronic)  | 0.086 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| NOEC (chronic)  | 0.035 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| <b>12.2. Persistence and degradability</b>                              |  |
| <b>Develon Synthetic Automatic Transmission Fluid Heavy Duty</b>        |  |
| Persistence and degradability   | Not rapidly degradable   |
| <b>1-DECENE, TETRAMER AND TRIMER HYDROGENATED (68649-12-7)</b>          |  |
| Persistence and degradability   | Not rapidly degradable   |
| <b>1H-IMIDAZOLE-1-ETHANOL, 2-(8-HEPTADECENYL)-4,5-DIHYDRO (95-38-5)</b> |  |
| Persistence and degradability   | Not rapidly degradable   |
| <b>DIISOCTYL ADIPATE (1330-86-5)</b>                                    |  |
| Persistence and degradability   | Readily biodegradable in water.  |
| Chemical oxygen demand (COD)  | 2.72 g O <sub>2</sub> /g substance   |

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| <b>N,N-DIMETHYLOCTADECAN-1-AMINE (124-28-7)</b>                                   |  |
|---|--|
| Persistence and degradability   | Readily biodegradable in water.  |
| <b>ALKYL METHACRYLATE, ALKYLAMINOALKYLMETHACRYLAMIDE COPOLYMER (TRADE SECRET)</b> |  |
| Persistence and degradability   | Not rapidly degradable   |
| <b>2,6-DI-TERT-BUTYLPHENOL (128-39-2)</b>   |  |
| Persistence and degradability   | Not readily biodegradable in water.  |
| <b>BIS(2-HYDROXYETHYL) TALLOW AMINE (61791-44-4)</b>                              |  |
| Persistence and degradability   | Not rapidly degradable   |
| 12.3. Bioaccumulative potential   |  |
| <b>1-DECENE, TETRAMER AND TRIMER HYDROGENATED (68649-12-7)</b>                    |  |
| Partition coefficient n-octanol/water (Log Pow)                                   | 7.64 Source: e-ChemPortal;HPVIS  |
| <b>DIISOCTYL ADIPATE (1330-86-5)</b>  |  |
| BCF - Fish [1]  | 27 (28 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Read-across)                               |
| Partition coefficient n-octanol/water (Log Pow)                                   | 8.12 (QSAR)  |
| Bioaccumulative potential   | Low potential for bioaccumulation (BCF < 500).   |
| <b>N,N-DIMETHYLOCTADECAN-1-AMINE (124-28-7)</b>                                   |  |
| Partition coefficient n-octanol/water (Log Pow)                                   | 1.9 (Calculated, Read-across, 20 °C)   |
| Bioaccumulative potential   | Low potential for bioaccumulation (Log Kow < 4).   |
| <b>2,6-DI-TERT-BUTYLPHENOL (128-39-2)</b>   |  |
| BCF - Fish [1]  | 660 l/kg (3 day(s), Leuciscus idus, Static system, Fresh water, Weight of evidence)                              |
| Partition coefficient n-octanol/water (Log Pow)                                   | 4.5 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 24 °C)                  |
| Bioaccumulative potential   | Potential for bioaccumulation (500 ≤ BCF ≤ 5000).  |
| 12.4. Mobility in soil  |  |
| <b>1-DECENE, TETRAMER AND TRIMER HYDROGENATED (68649-12-7)</b>                    |  |
| Mobility in soil  | 192200000 Source: EPISUITE   |
| <b>DIISOCTYL ADIPATE (1330-86-5)</b>  |  |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc)                        | 5.2853 (log Koc, Other, QSAR)  |
| Ecology - soil  | Low potential for mobility in soil.  |
| <b>N,N-DIMETHYLOCTADECAN-1-AMINE (124-28-7)</b>                                   |  |
| Surface tension   | 32.2 mN/m (25 °C, Read-across, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)                            |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc)                        | 3.362 (log Koc, OECD 106: Adsorption/Desorption Using a Batch Equilibrium Method, Read-across, Activated sludge) |
| Ecology - soil  | Low potential for mobility in soil.  |



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### 2,6-DI-TERT-BUTYLPHENOL (128-39-2)

|                 |                                     |
|-----------------|-------------------------------------|
| Surface tension | 30.1 mN/m (QSAR)                    |
| Ecology - soil  | Low potential for mobility in soil. |

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

No additional information available

## SECTION 14: Transport information

In accordance with DOT

### 14.1. UN number

DOT NA No : Not regulated

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not regulated

### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : Not regulated

### 14.4. Packing group

Packing group (DOT) : Not regulated

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### DOT

Not regulated

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

| Name                                       | CAS-No.    | Listing | Commercial status | Flags |
|--|------------|---------|-------------------|-------|
| 1-DECENE, TETRAMER AND TRIMER HYDROGENATED | 68649-12-7 | Present | Active            |       |

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| Name  | CAS-No.      | Listing     | Commercial status | Flags |
|---|--------------|-------------|-------------------|-------|
| 1H-IMIDAZOLE-1-ETHANOL, 2-(8-HEPTADECENYL)-4,5-DIHYDRO      | 95-38-5      | Not present | -                 |       |
| DIISOCTYL ADIPATE   | 1330-86-5    | Not present | -                 |       |
| N,N-DIMETHYLOCTADECAN-1-AMINE                               | 124-28-7     | Not present | -                 |       |
| ALKYL METHACRYLATE, ALKYLAMINOALKYLMETHACRYLAMIDE COPOLYMER | TRADE SECRET | Not present | -                 |       |
| 2,6-DI-TERT-BUTYLPHENOL                                     | 128-39-2     | Not present | -                 |       |
| BIS(2-HYDROXYETHYL) TALLOW AMINE                            | 61791-44-4   | Not present | -                 |       |

### 15.2. International regulations

#### CANADA

#### 1-DECENE, TETRAMER AND TRIMER HYDROGENATED (68649-12-7)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

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| Full text of H-phrases |   |
|------------------------|---|
| H302                   | Harmful if swallowed  |
| H304                   | May be fatal if swallowed and enters airways                      |
| H314                   | Causes severe skin burns and eye damage                           |
| H315                   | Causes skin irritation  |
| H319                   | Causes serious eye irritation                                     |
| H373                   | May cause damage to organs through prolonged or repeated exposure |
| H400                   | Very toxic to aquatic life  |
| H410                   | Very toxic to aquatic life with long lasting effects              |
| H413                   | May cause long lasting harmful effects to aquatic life            |

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.