

**PARSOL® MCX****5015784**

Version 2.0

Revision Date 09/07/2022

Date of last issue: 01/27/2020

**SECTION 1. IDENTIFICATION**

Product name : PARSOL® MCX  
Substance name : 2-Propenoic acid, 3-(4-methoxyphenyl)-, 2-ethylhexyl ester

**Manufacturer or supplier's details**

Company name of supplier : DSM Nutritional Products  
Address : 45 Waterview Blvd  
Parsippany NJ 07054-1298  
Telephone : (908) 475-7373  
Telefax : (908) 475-7406

Initial Supplier Identifier  
Données relatives au fournisseur  
**Univar Solutions Canada Ltd.**  
64 Arrow Road  
North York, ON M9M 2L9  
Telephone: 1-866-686-4827

Emergency telephone number : 1-800-424-9300 (24 HR CHEMTREC, CA & US); Outside CA & US +1-703-572-3887 (COLLECT CALLS ACCEPTED)

E-mail address of person responsible for the SDS : sds.nutritionalproducts@dsm.com

**Recommended use of the chemical and restrictions on use**

Recommended use : UV filter  
Ingredient for personal care products

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Not a hazardous substance or mixture.

**GHS label elements**

Not a hazardous substance or mixture.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : Ethylhexyl Methoxycinnamate (INCI)  
Octinoxate  
2-ethylhexyl 3-(4-methoxyphenyl)acrylate  
2-ethylhexyl trans-4-methoxycinnamate, CAS-No. 83834-59-7

Molecular formula : C18-H26-O3

Brief description of the product : Substance

Substance name : 2-Propenoic acid, 3-(4-methoxyphenyl)-, 2-ethylhexyl ester

CAS-No. : 5466-77-3

**Hazardous components**

No hazardous ingredients

**Further ingredients**

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| Component                       | CAS-No.   | Weight percent |
|---------------------------------|-----------|----------------|
| 2-ethylhexyl 4-methoxycinnamate | 5466-77-3 | 95 - 100       |

**SECTION 4. FIRST AID MEASURES**

- General advice : No hazards which require special first aid measures.
- If inhaled : Move to fresh air.  
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : No specific symptoms known.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Alcohol-resistant foam  
Dry chemical  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency measures : Use personal protective equipment.  
Ensure adequate ventilation.

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gency procedures

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

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**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge.  
Product will burn under fire conditions.

Advice on safe handling : Avoid contact with skin and eyes.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : To maintain product quality, do not store in heat or direct sunlight.

Keep container tightly closed and dry.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.  
In the case of vapour formation use a respirator with an approved filter.

Hand protection  
Remarks : Consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate type of protective gloves.  
Glove material: for example nitrile rubber

Eye protection : Safety glasses with side-shields

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Wash hands before breaks and at the end of workday.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

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|                                        |                                                                                                                                          |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance                             | : liquid                                                                                                                                 |
| Colour                                 | : pale yellow                                                                                                                            |
| Odour                                  | : slight, characteristic                                                                                                                 |
| Odour Threshold                        | : No information available.                                                                                                              |
| pH                                     | : No data available                                                                                                                      |
| Freezing point                         | : -68.3 °C (OECD Test Guideline 102)                                                                                                     |
| Boiling point/boiling range            | : 382 °C (1,013 hPa)<br>185 - 195 °C (1 hPa)<br>140 - 150 °C (0.1 hPa)                                                                   |
| Flash point                            | : 399 °F (204 °C) (DIN 51758)                                                                                                            |
| Evaporation rate                       | : not determined                                                                                                                         |
| Lower explosion limit                  | : not determined                                                                                                                         |
| Upper explosion limit                  | : not determined                                                                                                                         |
| Vapour pressure                        | : < 0.001 hPa (25 °C; calculated value)<br>0.3 hPa (154 °C)                                                                              |
| Relative vapour density                | : not determined                                                                                                                         |
| Relative density                       | : 1.01 (20 °C; OECD Test Guideline 109)                                                                                                  |
| Density                                | : 0.998 g/cm <sup>3</sup> (20 °C; OECD Test Guideline 109)                                                                               |
| Water solubility                       | : 0.22 - 0.75 mg/l (ca. 21 °C; OECD Test Guideline 105)<br>immiscible                                                                    |
| Solubility in other solvents           | : Ethanol: completely miscible<br>Oils and fats: completely miscible<br>Isopropanol: completely miscible                                 |
| Partition coefficient: n-octanol/water | : log Pow > 6 (23 °C; OECD Test Guideline 117)                                                                                           |
| Auto-ignition temperature              | : 738 °F (392 °C) (at 977 hPa, DIN 51794)                                                                                                |
| Thermal decomposition                  | : No data available                                                                                                                      |
| Viscosity, dynamic                     | : 99.8 mPa.s (20 °C, OECD Test Guideline 114)<br>31.6 mPa.s (40 °C, OECD Test Guideline 114)<br>12.3 mPa.s (60 °C)<br>2.2 mPa.s (130 °C) |
| Explosive properties                   | : Not explosive                                                                                                                          |
| Oxidizing properties                   | : No data available                                                                                                                      |

**Other information**

|                  |                         |
|------------------|-------------------------|
| Refractive index | : 1.542 - 1.548 (20 °C) |
| Molecular weight | : 290.4 g/mol           |

**SECTION 10. STABILITY AND REACTIVITY**

|                    |                                                |
|--------------------|------------------------------------------------|
| Reactivity         | : No hazards to be specially mentioned.        |
| Chemical stability | : Stable under recommended storage conditions. |

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|                                    |                                                                      |
|------------------------------------|----------------------------------------------------------------------|
| Possibility of hazardous reactions | : Possible incompatibility with materials listed under section 10.5. |
| Conditions to avoid                | : Heat                                                               |
| Incompatible materials             | : Strong acids and strong bases<br>Strong oxidizing agents           |
| Hazardous decomposition products   | : No decomposition if used as directed.                              |

**SECTION 11. TOXICOLOGICAL INFORMATION**

|                           |                                                                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : LD50 (Rat): > 5,000 mg/kg<br>: LD50 (Mouse): > 8,000 mg/kg                                                                                                                    |
| Acute inhalation toxicity | : LC0 (Rat, 4 h): >= 0.511 mg/l<br>(OECD Test Guideline 403)                                                                                                                    |
| Acute dermal toxicity     | : LD0 (Rat): >= 126.3 mg/kg<br>(OECD Test Guideline 402)                                                                                                                        |
| Skin irritation           | : Mild skin irritation (Rabbit, Draize Test)<br>: No skin irritation (Human, HRIPT: Human Repeat Insult Patch Test, 10% solution)<br>: not phototoxic (Guinea pig)              |
| Eye irritation            | : No eye irritation (Rabbit)                                                                                                                                                    |
| Sensitisation             | : Did not cause sensitization. (Guinea pig, OECD Test Guideline 406)<br>: Did not cause sensitization. (human, 10% solution)<br>: no photoallergenic skin reaction (Guinea pig) |
| Genotoxicity in vitro     | : not mutagenic, not genotoxic (Various test systems)<br>: not photomutagenic                                                                                                   |
| Genotoxicity in vivo      | : not genotoxic (Mouse, Bone marrow, OECD Test Guideline 474)                                                                                                                   |
| Carcinogenicity           | : No indication for carcinogenicity known.                                                                                                                                      |
| IARC                      | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.                         |

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|                                         |                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OSHA                                    | No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.                                                                                                                                                                                                               |
| NTP                                     | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.                                                                                                                                                                                                |
| Reproductive toxicity                   | : A 2-generation study in rats showed no negative effects on reproduction parameters.<br>NOAEL: 450 mg/kg bw/d (Rat, Oral, OECD Test Guideline 416)                                                                                                                                                                                    |
| Teratogenicity                          | : not teratogenic<br>not embryotoxic<br>(several species)                                                                                                                                                                                                                                                                              |
| STOT - single exposure (Acute exposure) | : The substance or mixture is not classified as specific target organ toxicant, single exposure.                                                                                                                                                                                                                                       |
| STOT - repeated exposure                | : NOAEL (Oral, Rat) : 450 mg/kg bw/d<br>Sub-chronic toxicity study (90-day)<br>(OECD Test Guideline 408)<br>: LOAEL (Oral, Rat) : 1000 mg/kg bw/d<br>Sub-chronic toxicity study (90-day)<br>(OECD Test Guideline 408)<br>: NOAEL (Dermal, Rat) : ca. 5000 mg/kg bw/d<br>Subacute toxicity study (28 days)<br>(OECD Test Guideline 410) |
| Further information                     | : The product passes into and partly through the skin of rats and pigs.<br><br>: The absorption through human skin is very low.                                                                                                                                                                                                        |
| Aspiration toxicity                     | : No aspiration toxicity classification                                                                                                                                                                                                                                                                                                |

**SECTION 12. ECOLOGICAL INFORMATION****Toxicity**

|                                                     |                                                                                                                                    |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : Cyprinus carpio (Carp)<br>LC50 (96 h) > 100 mg/l<br>(nominal concentration)<br>(OECD Test Guideline 203)                         |
| Toxicity to daphnia and other aquatic invertebrates | : Daphnia magna (Water flea)<br>EC50 (48 h) > 100 mg/l<br>(nominal concentration)<br>(OECD Test Guideline 202)                     |
| Toxicity to algae                                   | : Pseudokirchneriella subcapitata (green algae)<br>ErC50 (72 h) > 100 mg/l<br>(nominal concentration)<br>(OECD Test Guideline 201) |

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|                                                                        |                                                                                                                                                                         |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to bacteria                                                   | : Lemna minor (duckweed)<br>NOEC (7 d) $\geq 0.06$ mg/l<br>The substance tested had no adverse effects up to the maximum water solubility.<br>(OECD Test Guideline 221) |
|                                                                        | : activated sludge<br>NOEC (0.5 h) $\geq 1,000$ mg/l<br>(nominal concentration)<br>No inhibition was observed on microbial respiration.<br>(OECD Test Guideline 209)    |
| Toxicity to fish (Chronic toxicity)                                    | : Danio rerio (zebra fish)<br>Lowest Observed Effect Concentration (63 d) $46.9 \mu\text{g/l}$<br>(OECD Test Guideline 234)                                             |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : Daphnia magna (Water flea)<br>NOELR (21 d) $\geq 60 \mu\text{g/l}$<br>(nominal concentration)<br>(OECD Test Guideline 211)                                            |

**Persistence and degradability**

|                    |                                                                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biodegradability   | : Readily biodegradable.<br>78 % (28 d)<br>69 %, (10 d)<br>(OECD Test Guideline 301F)                                                                 |
|                    | : Ultimately anaerobically biodegradable.<br>67 % (79 d)<br>10 %, (10 d)                                                                              |
| Photodegradation   | : Decomposes rapidly in contact with light.<br>Half-life (direct photolysis): 5 - 9 d ( $0.12 \text{ mg/l}$ , Water, Xenon lamp, $23^\circ\text{C}$ ) |
| Stability in water | : DT50: $> 365$ d ( $20^\circ\text{C}$ , pH 4, OECD Test Guideline 111)<br>Stable                                                                     |
|                    | : DT50: $> 365$ d ( $20^\circ\text{C}$ , pH 7)                                                                                                        |
|                    | : DT50: $> 365$ d ( $20^\circ\text{C}$ , pH 9)                                                                                                        |

**Bioaccumulative potential**

|                                        |                                                                                                                                                                                                                               |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bioaccumulation                        | : Species: Oncorhynchus mykiss (rainbow trout)<br>Exposure time: 5 d<br>Temperature: $15^\circ\text{C}$<br>Concentration: $0.084 \text{ mg/l}$<br>Bioconcentration factor (BCF): 279 - 432<br>Method: OECD Test Guideline 305 |
|                                        | : Concentration: $0.731 \text{ mg/l}$<br>Bioconcentration factor (BCF): 64 - 174                                                                                                                                              |
|                                        | : Elimination: Depuration DT50: 1.5 - 1.7 days, DT90: 5.0 - 5.5 days                                                                                                                                                          |
| Partition coefficient: n-octanol/water | : $\log \text{Pow} > 6$ ( $23^\circ\text{C}$ ; OECD Test Guideline 117)                                                                                                                                                       |

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**Mobility in soil**

Distribution among environmental compartments : Adsorption  
log K<sub>oc</sub> 4.12 (calculated value)

**Results of PBT and vPvB assessment**

Assessment : The substance does not fulfill the PBT criteria.  
: The substance does not fulfill the vPvB criteria.

**Other adverse effects**

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Discharge into the environment must be avoided.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

User must determine if any wastes generated exhibit hazardous characteristics as per 40 CFR Part 261 or other national / local legislation.

Contaminated packaging : Dispose of as unused product.  
Do not re-use empty containers.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(2-ethylhexyl 4-methoxycinnamate)

Class : 9

Packing group : III

Labels : 9

**IATA-DGR**

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(2-ethylhexyl 4-methoxycinnamate)

Class : 9

Packing group : III

Labels : Miscellaneous

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Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

**IMDG-Code**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(2-ethylhexyl 4-methoxycinnamate)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

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

Not applicable for product as supplied.

**National Regulations****49 CFR**

UN/ID/NA number : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(2-ethylhexyl 4-methoxycinnamate)  
Class : 9  
Packing group : III  
Labels : CLASS 9  
ERG Code : 171  
Marine pollutant : yes(2-ethylhexyl 4-methoxycinnamate)  
General advice : 49CFR: not regulated as a dangerous good in non-bulk packaging

Remarks : Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

**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.

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**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards

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**SARA 313**

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

**US State Regulations****Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know**

|                                 |           |
|---------------------------------|-----------|
| 2-ethylhexyl 4-methoxycinnamate | 5466-77-3 |
|---------------------------------|-----------|

**Maine Chemicals of High Concern**

|                                 |           |
|---------------------------------|-----------|
| 2-ethylhexyl 4-methoxycinnamate | 5466-77-3 |
|---------------------------------|-----------|

**Vermont Chemicals of High Concern**

|                                 |           |
|---------------------------------|-----------|
| 2-ethylhexyl 4-methoxycinnamate | 5466-77-3 |
|---------------------------------|-----------|

**Washington Chemicals of High Concern**

|                                 |           |
|---------------------------------|-----------|
| 2-ethylhexyl 4-methoxycinnamate | 5466-77-3 |
|---------------------------------|-----------|

**TSCA list**

No substances are subject to a Significant New Use Rule.

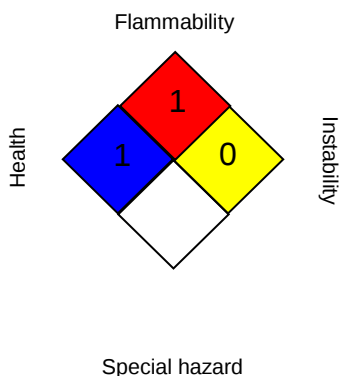
No substances are subject to TSCA 12(b) export notification requirements.

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**SECTION 16. OTHER INFORMATION****Further information****NFPA 704:****HMIS® IV:**

|                        |   |          |
|------------------------|---|----------|
| <b>HEALTH</b>          | / | <b>1</b> |
| <b>FLAMMABILITY</b>    |   | <b>1</b> |
| <b>PHYSICAL HAZARD</b> |   | <b>0</b> |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

ACGIH = American Conference of Governmental Industrial Hygienists. CFR = Code of Federal Regulations. EPA = Environmental Protection Agency. NIOSH = National Institute of Occupation-

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al Safety and Health. OSHA = Occupational Safety and Health Administration. STEL = Short term exposure limit. TLV = Threshold Limit Value. TLV-C = Ceiling Limit Value. TWA = Time Weighted Average.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN