## SECTION 1. IDENTIFICATION

| | | |
|---|---|---|
| Product name | : | PARSOL® 340 |
| Substance name | : | 2-cyano-3,3-diphenyl-acrylic acid 2-ethyl-hexyl ester |

**Manufacturer or supplier's details**

| | | |
|---|---|---|
| Company name of supplier | : | DSM Nutritional Products LLC |
| Address | : | 250 Plainsboro Rd<br>Plainsboro NJ 08536 |
| Telephone | : | (609) 452-1000 |
| 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<br>Ingredient for personal care products |

## SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

| | | |
|---|---|---|
| Reproductive toxicity | : | Category 2 |

**GHS label elements**

Hazard pictograms :

| | | |
|---|---|---|
| Signal word | : | Warning |
| Hazard statements | : | H361f Suspected of damaging fertility. |
| Precautionary statements | : | **Prevention:**<br>P201 Obtain special instructions before use.<br>P202 Do not handle until all safety precautions have been read and understood.<br>P280 Wear protective gloves, protective clothing, eye protection and face protection.<br>**Response:**<br>P308 + P313 IF exposed or concerned: Get medical advice/ attention.<br>**Storage:**<br>P405 Store locked up.<br>**Disposal:** |

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| | | |
|---|---|---|
| Synonyms | : | Octocrylene (INCI/USAN) |
| Molecular formula | : | C24-H27-N-O2 |
| Brief description of the product | : | Substance |
| Substance name | : | 2-cyano-3,3-diphenyl-acrylic acid 2-ethyl-hexyl ester |
| CAS-No. | : | 6197-30-4 |

**Hazardous components**

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|---|---|
| octocrilene | 6197-30-4 | >= 80 - <= 100 |

## SECTION 4. FIRST AID MEASURES

| | | |
|---|---|---|
| General advice | : | Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance. |
| If inhaled | : | Move to fresh air.<br>Consult a physician after significant exposure. |
| In case of skin contact | : | Take off contaminated clothing and shoes immediately.<br>Wash off with soap and plenty of water.<br>If symptoms persist, call a physician. |
| 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 | : | Rinse mouth with water.<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. |
| Most important symptoms and effects, both acute and delayed | : | Suspected of damaging fertility. |
| Notes to physician | : | Treat symptomatically. |

## SECTION 5. FIREFIGHTING MEASURES

| | | |
|---|---|---|
| Suitable extinguishing media | : | Alcohol-resistant foam<br>Dry chemical<br>Use extinguishing measures that are appropriate to local cir- |

cumstances 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.<br>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 procedures | : | Evacuate personnel to safe areas.<br>Use personal protective equipment.<br>Ensure adequate ventilation. |
| Environmental precautions | : | Do not flush into surface water or sanitary sewer system.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal. |

## SECTION 7. HANDLING AND STORAGE

| | | |
|---|---|---|
| Advice on protection against fire and explosion | : | Take necessary action to avoid static electricity discharge.<br>Product will burn under fire conditions. |
| Advice on safe handling | : | Handle substance within a predominantly closed system provided with extract ventilation.<br><br>Avoid exceeding the given occupational exposure limits (see section 8).<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Dispose of rinse water in accordance with local and national regulations.<br>Smoking, eating and drinking should be prohibited in the application area. |
| Conditions for safe storage | : | Keep container tightly closed and dry.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

To maintain product quality, do not store in heat or direct sunlight.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

| | | |
|---|---|---|
| Respiratory protection | : | 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.<br>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 | : | When using do not eat or drink.<br>When using do not smoke.<br>Avoid contact with skin, eyes and clothing. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | | |
|---|---|---|
| Appearance | : | viscous liquid |
| Colour | : | yellow - clear |
| Odour | : | slight |
| Odour Threshold | : | No information available. |
| pH | : | No data available |
| Melting point/ range | : | -10 °C |
| Boiling point/boiling range | : | 200 °C (0.13 hPa)<br>(1,013 hPa)<br>Decomposes below the boiling point. |
| Flash point | : | 453 °F (234 °C) |
| Evaporation rate | : | not determined |
| Lower explosion limit | : | not determined |
| Upper explosion limit | : | not determined |
| Vapour pressure | : | < 0.01 hPa (20 °C) |
| Relative vapour density | : | not determined |
| Relative density | : | 1.045 - 1.055 (25 °C) |
| Water solubility | : | ca. 0.04 mg/l (20 °C, pH 6.2; OECD Test Guideline 105) |

| | | |
|---|---|---|
| | | insoluble |
| Solubility in other solvents | : | Ethanol: soluble |
| | | Oils and fats: soluble |
| Partition coefficient: n-octanol/water | : | log Pow 6.1 (23 °C; OECD Test Guideline 117) |
| Self-ignition | : | not pyrophoric |
| Auto-ignition temperature | : | 754 °F (401 °C) (EN 14522) |
| Decomposition temperature | : | Not relevant |
| Viscosity, dynamic | : | 4,254 mPa.s (20 °C) |
| | | 637 mPa.s (40 °C) |
| Viscosity, kinematic | : | not determined |

**Other information**

| | | |
|---|---|---|
| Explosive properties | : | Not explosive |
| Oxidizing properties | : | Not oxidizing |
| Refractive index | : | 1.561 - 1.571 (20 °C) |
| Molecular weight | : | 361.49 g/mol |

## SECTION 10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| Reactivity | : | No hazards to be specially mentioned. |
| Chemical stability | : | Stable under recommended storage conditions. |
| 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>(OECD Test Guideline 401) |
| Acute dermal toxicity | : | LD50 (Rat): > 2,000 mg/kg<br>(OECD Test Guideline 402) |
| Skin irritation | : | No skin irritation (Rabbit, OECD Test Guideline 404) |
| | : | no phototoxic skin reaction (Guinea pig) |
| Eye irritation | : | No eye irritation (Rabbit, OECD Test Guideline 405) |

| | | |
|---|---|---|
| Sensitisation | : | Did not cause sensitisation on laboratory animals. (Guinea pig, OECD Test Guideline 406) |
| | : | no photoallergenic skin reaction (Guinea pig) |
| Genotoxicity in vitro | : | not mutagenic, not genotoxic (Various test systems) |
| | : | not photomutagenic, not photogenotoxic (Various test systems) |
| Genotoxicity in vivo | : | not genotoxic (Mouse, Bone marrow, Oral, Mutagenicity (micronucleus test)) |
| 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. |
| 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 | : | Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments. NOAEL: 153 - 163 mg/kg bw/day (Rat, male and female, Oral, OECD Test Guideline 443) |
| Teratogenicity | : | not embryotoxic (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) : 175 mg/kg bw/d Sub-chronic toxicity study (90-day) (OECD Test Guideline 408) |
| | : | LOAEL (Oral, Rat) : 340 mg/kg bw/d Sub-chronic toxicity study (90-day) (OECD Test Guideline 408) |
| | : | NOAEL (Dermal, Rabbit, females) : 130 mg/kg bw/d Sub-chronic toxicity study (90-day) |
| | : | LOAEL (Dermal, Rabbit, males) : 130 mg/kg bw/d Sub-chronic toxicity study (90-day) |
| Aspiration toxicity | : | No aspiration toxicity classification |

**Further information**

**Product:**

Remarks : The product may be absorbed through the skin.

## SECTION 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish : Danio rerio (zebra fish)
LC50 (96 h) > 0.5 mg/l
(nominal concentration)
No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : Daphnia magna (Water flea)
EC50 (48 h) > 0.023 mg/l
No toxicity at the limit of solubility
(OECD Test Guideline 202)

Toxicity to algae : Desmodesmus subspicatus (green algae)
ErC50 (72 h) > 220 mg/l
(nominal concentration)
(OECD Test Guideline 201)
: ErC0 (72 h) 100 mg/l
(nominal concentration)

Toxicity to bacteria : activated sludge
IC50 (0.5 h) > 10,000 mg/l
(nominal concentration)
(ISO 8192)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Daphnia magna (Water flea)
NOEC (21 d) 0.00266 mg/l
(OECD Test Guideline 211)

### Persistence and degradability

Biodegradability : Not readily biodegradable.
0 % (28 d)
(Directive 67/548/EEC Annex V, C.4.D.)

### Bioaccumulative potential

Bioaccumulation : Species: Danio rerio (zebra fish)
Exposure time: 28 d
Temperature: 23 °C
Bioconcentration factor (BCF): 860
Method: OECD Test Guideline 305
The product may be accumulated in organisms.

: Species: Oncorhynchus mykiss (rainbow trout)
Exposure time: 14 d
Method: OECD Test Guideline 305

Partition coefficient: n- : log Pow 6.1 ( 23 °C ; OECD Test Guideline 117)

octanol/water

**Mobility in soil**

| | | |
|---|---|---|
| Distribution among environmental compartments | : | Adsorption/Soil<br>ca.Koc 48898 (OECD Test Guideline 106) |

**Other adverse effects**

**Product:**

| | | |
|---|---|---|
| Ozone-Depletion Potential | : | Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances<br>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 | : | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

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

## SECTION 14. TRANSPORT INFORMATION

**International Regulations**

**UNRTDG**

| | | |
|---|---|---|
| UN number | : | UN 3082 |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(octocrilene) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | 9 |
| Environmentally hazardous | : | yes |

**IATA-DGR**

| | | |
|---|---|---|
| UN/ID No. | : | UN 3082 |
| Proper shipping name | : | Environmentally hazardous substance, liquid, n.o.s.<br>(octocrilene) |
| Class | : | 9 |

| | | |
|---|---|---|
| Packing group | : | III |
| Labels | : | Miscellaneous |
| 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. (octocrilene) |
| 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. (octocrilene) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | CLASS 9 |
| ERG Code | : | 171 |
| Marine pollutant | : | yes(octocrilene) |
| 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**

| | | |
|---|---|---|
| Remarks | : | 49CFR: not regulated as a dangerous good in non-bulk packaging |

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

**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** : Reproductive toxicity

**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 SOCMI 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**

octocrilene 6197-30-4

**Maine Chemicals of High Concern**

Product does not contain any listed chemicals

**Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

**Washington Chemicals of High Concern**

Product does not contain any listed chemicals

**The components of this product are reported in the following inventories:**

| | | |
|---|---|---|
| TCSI | : | On the inventory, or in compliance with the inventory |
| TSCA | : | All substances listed as active on the TSCA inventory |
| AIIC | : | On the inventory, or in compliance with the inventory |
| DSL | : | All components of this product are on the Canadian DSL |
| ENCS | : | On the inventory, or in compliance with the inventory |
| ISHL | : | On the inventory, or in compliance with the inventory |
| KECI | : | On the inventory, or in compliance with the inventory |
| PICCS | : | On the inventory, or in compliance with the inventory |
| IECSC | : | On the inventory, or in compliance with the inventory |
| NZIoC | : | On the inventory, or in compliance with the inventory |

TECI : On the inventory, or in compliance with the inventory

**TSCA list**

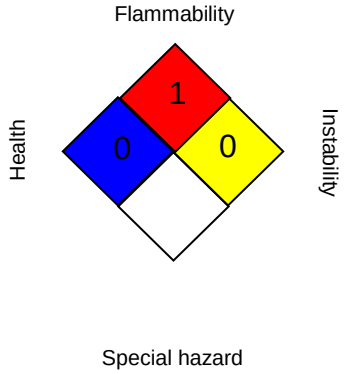
No substances are subject to a Significant New Use Rule.

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

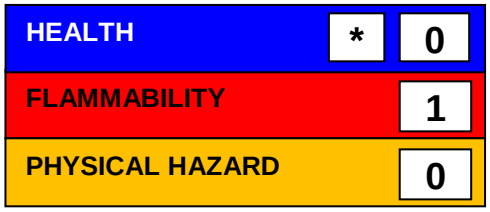
## SECTION 16. OTHER INFORMATION

**Further information**

**NFPA 704:**




**HMIS® IV:**




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 Substanc-

es; (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 Occupational 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.

Revision Date : 09/17/2025

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.

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