

SAFETY DATA SHEET**ORANGE HDPE W/UV -2**

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SAFETY DATA SHEET

ORANGE HDPE W/UV -2**Section 1. Identification**

GHS product identifier : ORANGE HDPE W/UV -2
Chemical name : Mixture
CAS number : Mixture
Other means of identification : CC10432217
Product type : liquid

Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications. Plastics.

Supplier's details : **AVIENT CORPORATION**
ColorMatrix Group Inc.
680 North Rocky River Drive, Berea, Ohio, 44017-1628, USA

+1 216 622 0100

Emergency telephone number (with hours of operation) : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : SKIN SENSITIZATION - Category 1

GHS label elements

Hazard pictograms :



Signal word : Warning
Hazard statements : May cause an allergic skin reaction.

Precautionary statements

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Prevention	:	Wear protective gloves. Avoid breathing vapor. Contaminated work clothing must not be allowed out of the workplace.
Response	:	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse.
Storage	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	:	None known.
Hazards identified when used	:	No known significant effects or critical hazards.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	ORANGE HDPE W/UV -2
Other means of identification	:	ORANGE HDPE W/UV -2

Ingredient name	Synonyms	%	Identifiers
Decanedioic acid, 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidiny) ester	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	>= 10 - <= 30	CAS: 41556-26-7
Miscellaneous Compounds Distillates, petroleum, hydrotreated middle	-	>= 7 - <= 13	CAS: 5-56-1
Titanium oxide	Titanium dioxide	>= 3 - <= 7	CAS: 13463-67-7
Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidiny) ester	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	>= 1 - <= 5	CAS: 82919-37-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures**Description of necessary first aid measures**

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- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed**Potential acute health effects**

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following: irritation, redness

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Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, halogenated compounds, metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate

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- For emergency responders** : ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- Environmental precautions** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage,** : Store in accordance with local regulations. Store in original container

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including any incompatibilities

protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters**Occupational exposure limits**

Ingredient name	Exposure limits
Decanedioic acid, 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidiny) ester	None.
Miscellaneous Compounds Distillates, petroleum, hydrotreated middle	None.
Titanium oxide	CAL OSHA PEL (2018-05-16). [titanium dioxide as Ti] TWA 8 hours: 10 mg/m3 (as Ti) Form: Total dust TWA 8 hours: 5 mg/m3 (as Ti) Form: Respirable fraction ACGIH TLV (2022-01-06). [titanium dioxide finescale particles] A3. TWA 8 hours: 2.5 mg/m3 Form: respirable fraction, finescale particles ACGIH TLV (2022-01-06). [titanium dioxide nanoscale particles] A3. TWA 8 hours: 0.2 mg/m3 Form: respirable fraction, nanoscale particles OSHA PEL 1989 (1989-03-01). [Titanium dioxide] TWA 8 hours: 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30). [Titanium dioxide] TWA 8 hours: 15 mg/m3 Form: Total dust
Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidiny) ester	None.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

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Appearance

Physical state	:	liquid [liquid]
Color	:	ORANGE
Odor	:	Faint odor.
Odor threshold	:	Not available.
pH	:	Not available.
Melting point/freezing point	:	Not available.
Boiling point or initial boiling point and boiling range	:	Not available.
Flash point	:	Not available.
Evaporation rate	:	Not available.
Flammability	:	Not available.
Lower and upper explosion limit/flammability limit	:	Lower: Not available. Upper: Not available.
Vapor pressure	:	Not available.
Relative vapor density	:	Not available.
Relative density	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n-octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Dynamic : Not available. Kinematic : Not available.

Particle characteristics

Median particle size	:	Not applicable.
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Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).

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- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Keep away from extreme heat and oxidizing agents.
- Incompatible materials** : Keep away from strong acids. Oxidizer.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information**Information on toxicological effects****Acute toxicity**

Product/ingredient name	Result
Titanium oxide	Rabbit - Dermal - LD50 > 5,000 mg/kg Rat - Male - Inhalation - LC50 Dusts and mists 6.82 Mg/l [4 h]

Conclusion/Summary : Mixture.Not fully tested.

Skin corrosion/irritation

Conclusion/Summary : Mixture.Not fully tested.

Serious eye damage/eye irritation

Conclusion/Summary : Mixture.Not fully tested.

Respiratory corrosion/irritation

Conclusion/Summary : Mixture.Not fully tested.

Respiratory or skin sensitization

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Skin**Conclusion/Summary** : Mixture.Not fully tested.**Respiratory****Conclusion/Summary** : Mixture.Not fully tested.**Germ cell mutagenicity****Conclusion/Summary** : Mixture.Not fully tested.**Carcinogenicity****Conclusion/Summary** : Mixture.Not fully tested.**Classification**

Product/ingredient name	OSHA	IARC	NTP
Titanium oxide	-	2B	-

Reproductive toxicity**Conclusion/Summary** : Mixture.Not fully tested.**Specific target organ toxicity (single exposure)**

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
Miscellaneous Compounds Distillates, petroleum, hydrotreated middle	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

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Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following: irritation, redness
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure**Short term exposure**

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Mixture. Not fully tested.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity**Acute toxicity estimates**

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
ORANGE HDPE W/UV -2	13085.1	N/A	N/A	N/A	N/A

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	mg/kg				
Titanium oxide	N/A	N/A	N/A	N/A	6.82 Mg/l

Section 12. Ecological information**Toxicity**

Product/ingredient name	Result
Titanium oxide	Acute LC50 Marine water Fish - <i>Fundulus heteroclitus</i> > 1,000 Mg/l [96 h] Acute LC50 Fresh water Crustaceans - <i>Ceriodaphnia dubia</i> 3 Mg/l [48 h] Acute LC50 Fresh water Daphnia - <i>Daphnia pulex</i> 6.5 Mg/l [48 h]

Conclusion/Summary : Not available.**Persistence and degradability**

Not available.

Conclusion/Summary : Not available.**Bioaccumulative potential**

Not available.

Mobility in soil**Soil/Water partition coefficient** : Not available.**Other adverse effects**

No known significant effects or critical hazards.

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Section 13. Disposal considerations

- Disposal methods** :
- The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

- U.S.DOT 49CFR : Not regulated for transportation.
Ground/Air/Water
- IATA : Not classified as dangerous goods under transport regulations.
- IMDG : Not classified as dangerous goods under transport regulations.

Section 15. Regulatory information**U.S. Federal regulations****TSCA 8(a) CDR Exempt/Partial exemption:** Not determined**TSCA 12(b) - Chemical export notification**

- Clean Air Act Section 112(b)** : Not listed
Hazardous Air Pollutants (HAPs)
- Clean Air Act Section 602 Class I Substances** : Not listed
- Clean Air Act Section 602 Class II Substances** : Not listed
- DEA List I Chemicals (Precursor** : Not listed

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Chemicals)**DEA List II Chemicals (Essential Chemicals)** : Not listed**SARA 302/304****Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.**SARA 311/312****Classification** : SKIN SENSITIZATION - Category 1**Composition/information on ingredients**

Name	%	Classification
Decanedioic acid, 1,10-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester	>= 10 - <= 30	SKIN SENSITIZATION - Category 1
Miscellaneous Compounds Distillates, petroleum, hydrotreated middle	>= 7 - <= 13	ASPIRATION HAZARD - Category 1
Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl- 4-piperidinyl) ester	>= 1 - <= 5	SKIN SENSITIZATION - Category 1

SARA 313**Form R - Reporting requirements**

Product name	CAS number	%
C.I. Pigment Yellow 119	68187-51-9	>= 7 - <= 13

Supplier notification

Product name	CAS number	%
C.I. Pigment Yellow 119	68187-51-9	>= 7 - <= 13

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

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State regulations

- Massachusetts** : The following components are listed:
Titanium oxide
- New York** : None of the components are listed.
- New Jersey** : The following components are listed:
ZINC compounds
TITANIUM DIOXIDE
- Pennsylvania** : The following components are listed:
ZINC COMPOUNDS
TITANIUM OXIDE

California Prop. 65

 **WARNING:** This product can expose you to, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Titanium dioxide	-	-

International regulations**Chemical Weapon Convention List Schedules I, II & III Chemicals****Chemical Weapons Convention List Schedule I Chemicals**

None of the components are listed.

Chemical Weapons Convention List Schedule II Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule III Chemicals

None of the components are listed.

Montreal Protocol

None of the components are listed.

Stockholm Convention on Persistent Organic Pollutants**Annex A - Elimination - Production**

None of the components are listed.

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Annex A - Elimination - Use

None of the components are listed.

Annex B - Restriction - Production

None of the components are listed.

Annex B - Restriction - Use

None of the components are listed.

Annex C - Unintentional - Production

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Rotterdam Convention on Prior Informed Consent (PIC) - Industrial

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide

None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Heavy metals - Annex 1

None of the components are listed.

POPs - Annex 1 - Production

None of the components are listed.

POPs - Annex 1 - Use

None of the components are listed.

POPs - Annex 2

None of the components are listed.

POPs - Annex 3

None of the components are listed.

Inventory list

Australia	:	Not determined.
Canada	:	Not determined.

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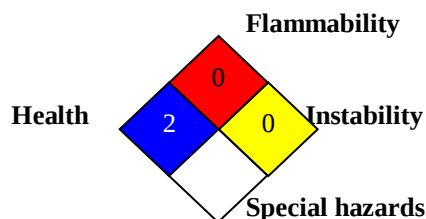
China	:	Not determined.
Eurasian Economic Union	:	Russian Federation inventory: Not determined.
Japan	:	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	All components are active or exempted.
Viet Nam	:	Not determined.

Section 16. Other information**Hazardous Material Information System (U.S.A.)**

Health	/	2
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)**Procedure used to derive the classification**

Classification	Justification
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SKIN SENSITIZATION - Category 1	Calculation method
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Date of issue/Date of revision	: 07/17/2026
Date of previous issue	: 00/00/0000
Version	: 1.0
Prepared by	: SHELKED
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor DOT = Department of Transportation GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods IMO = International Maritime Organization LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group TDG = Transportation of Dangerous Goods UN = United Nations
References	: Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.