



ATR-1000 Catalyst

Section 1: Chemical Product and Suppliers Identification

Product Name: ATR-1000 Catalyst
Manufacturer's Name: LifePort Advanced Materials
Address: 1610 Heritage Street Woodland, WA 98674
Emergency Phone: LifePort (360-225-1212)
Information Phone Number: ChemTrec (800-424-9300)
Email: solutions@lifeport.com

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:

ORGANIC PEROXIDES - Type E
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 56% (dermal), 56% (inhalation)

Hazard Pictograms



Signal word:

Warning

Hazard statements:

Heating may cause a fire
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation

Precautionary statements

Prevention

Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Keep only in original packaging. Avoid breathing dust. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.



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Response

Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage

Protect from sunlight. Store at temperatures not exceeding 25 °C/77 °F. Keep cool. Store separately.

Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

WARNING: This product contains a chemical known to the State of California to cause cancer. FOR PROFESSIONAL USE ONLY. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

Hazards not otherwise classified

None known

Section 3: Composition/Information on Ingredients

Substance/mixture:

Mixture

Other means of identification

Not available

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Dibenzoyl peroxide	≥50 - ≤75	94-36-0
Zinc Stearate	≤10	557-05-1
Calcium Sulfate	≤5	7778-18-9
Iron Oxide	≤3	1309-37-1

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.



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Section 4: First-Aid Measures

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.

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:

Causes serious eye irritation.

Inhalation:

No known significant effects or critical hazards.

Skin contact:

Causes skin irritation. May cause an allergic skin reaction.

Ingestion:

No known significant effects or critical hazards.



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Over-exposure signs/symptoms

Eye contact:

Adverse symptoms may include the following: pain or irritation watering redness.

Inhalation:

No specific data

Skin contact:

Adverse symptoms may include the following: irritation redness.

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:

Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media:

None known



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Specific hazards arising from the chemical:

Runoff to sewer may create fire or explosion hazard. This material increases the risk of fire and may aid combustion. Heating may cause a fire. May re-ignite itself after fire is extinguished. Hazardous decomposition may occur.

Hazardous thermal decomposition products:

Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

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:

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid contamination with reactive substances. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.



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Large spill:

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid contamination with reactive substances. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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. Use only with adequate ventilation. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Keep away from clothing, incompatible materials and combustible materials. Temperature control may be required. 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, including any incompatibilities:

To avoid the risk of formation of shock-sensitive crystals or loss of stability, it is important to store the product within the recommended temperature range. Temperature control may be required. Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store at temperatures not exceeding 25 °C/77 °F. Eliminate all ignition sources. Separate from reducing agents and combustible materials. Keep away from rust, iron and copper. Keep container tightly closed and sealed until ready for use. Prevent product contamination. 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. See Section 10 for incompatible materials before handling or use.

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Section 8: Exposure Controls/Personal Protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Dibenzoyl peroxide	94-36-0	ACGIH TLV (United States, 1/2022). TWA: 5 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 5 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours
Zinc Stearate	557-05-1	ACGIH TLV (United States, 1/2022). [Stearates] TWA: 10 mg/m ³ 8 hours. Form: Inhalable fraction TWA: 3 mg/m ³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2020). TWA: 5 mg/m ³ 10 hours. Form: Respirable fraction TWA: 10 mg/m ³ 10 hours. Form: Total OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
Calcium Sulfate	7778-18-9	ACGIH TLV (United States, 1/2022). [Calcium sulfate] TWA: 10 mg/m ³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2020). TWA: 5 mg/m ³ 10 hours. Form: Respirable fraction TWA: 10 mg/m ³ 10 hours. Form: Total
Iron Oxide	1309-37-1	OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust NIOSH REL (United States, 10/2020). TWA: 5 mg/m ³ , (as Fe) 10 hours. Form: Dust and fumes ACGIH TLV (United States, 1/2022). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust



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Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Dibenzoyl peroxide	94-36-0	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 5 mg/m ³ 8 hours. CA British Columbia Provincial (Canada, 6/2022). TWA: 5 mg/m ³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 5 mg/m ³ 8 hours. CA Quebec Provincial (Canada, 6/2022). TWA EV: 5 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 10 mg/m ³ 15 minutes. TWA: 5 mg/m ³ 8 hours.

Occupational exposure limits (Mexico)

Ingredient name	CAS #	Exposure limits
Dibenzoyl peroxide	94-36-0	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 5 mg/m ³ 8 hours.

Appropriate engineering controls:

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Use with adequate ventilation.

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: chemical splash goggles.



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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

Appearance

Physical State: Solid

Color: White

Odor: not available

Odor threshold: not available

pH: not available

Melting point/freezing point: not available

Boiling point, initial boiling point, and boiling range: 100°C (212°F)

Flash point: Closed cup: 94°C (201.2°F) [Pensky-Martens Closed Cup]

Evaporation rate: 0.09 (butyl acetate = 1)

Flammability: Not available.

Lower and upper explosion limit/flammability limit: Not applicable.

Vapor pressure: 2.3 kPa (17.5 mm Hg)

Relative vapor density: 1 [Air = 1]

Relative density: 1.19



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Solubility:

Media	Result
cold water	Partially soluble

Partition coefficient: n-octanol/water: not applicable

Auto-ignition temperature: not applicable

Decomposition temperature: not available

Viscosity: Kinematic (40°C (104°F)) : >20.5 mm² /s (>20.5 cSt)

Molecular weight: Not applicable

Aerosol product

Heat of combustion: 27.75 kJ/g

Section 10: Stability and Reactivity

Reactivity:

This product, in laboratory testing, neither detonates nor deflagrates and only shows low or no effect when heated under confinement.

Chemical stability:

The product is stable.

Possibility of hazardous reactions:

Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: temperature increase high temperature Reactions may include the following: hazardous decomposition risk of causing fire.

Conditions to avoid:

Avoid all possible sources of ignition (spark or flame). Avoid increased storage temperature.

Incompatible materials:

Reactive or incompatible with the following materials: combustible materials reducing materials copper iron rust.

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	Species	Dose	Exposure
Dibenzoyl peroxide	LD50 Oral	Rat	6400 mg/kg	-
Zinc Stearate	LD50 Oral	Rat	>10 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Dibenzoyl peroxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Woman	-	1 %	-
	Skin - Severe irritant	Human	-	1344 hours 5 %	-

Sensitization:

Not available

Mutagenicity:

Not available

Carcinogenicity

Not available

Classification

Product/ingredient name	OSHA	IARC	NTP
Dibenzoyl peroxide	-	3	-
Iron Oxide	-	3	-

Reproductive toxicity:

Not available

Teratogenicity:

Not available



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Specific target organ toxicity (single exposure):

Not available

Specific target organ toxicity (repeated exposure):

Not available

Aspiration hazard:

Not available

Information on the likely routes of exposure:

Not available

Potential acute health effects

Eye contact:

Causes serious eye irritation.

Inhalation:

No known significant effects or critical hazards.

Skin contact:

Causes skin irritation. 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:

Adverse symptoms may include the following: pain or irritation watering redness.

Inhalation:

No specific data

Skin contact:

Adverse symptoms may include the following: irritation redness.

Ingestion:

No specific data



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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

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.

Teratogenicity:

No known significant effects or critical hazards.

Developmental effects:

No known significant effects or critical hazards.

Fertility effects:

No known significant effects or critical hazards.



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Numerical measures of toxicity

Acute toxicity estimates:

Not available

Section 12: Ecological Information

Toxicity

Product/ingredient name	Result	Species	Exposure
Calcium Sulfate	Acute EC50 3200000 µg/l	Algae - Navicula seminulum	96 hours
	Fresh water	Crustaceans -	48 hours
	Acute LC50 >1910 mg/l	Ceriodaphnia dubia	48 hours
	Fresh water	Daphnia - Daphnia magna	96 hours
	Acute LC50 >1970 mg/l	Fish - Lepomis macrochirus	3 weeks
	Fresh water	Daphnia - Daphnia magna	60 days
	Acute LC50 2980000 µg/l	- Neonate	
	Fresh water	Fish - Coregonus albula -	
	Chronic NOEC 360 mg/l	Egg	
Fresh water			
Chronic NOEC 233 mg/l			
Fresh water			

Persistence and degradability:

Not available

Bio accumulative potential:

Not available

Mobility in soil

Soil/water partition coefficient (KOC):

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. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14: Transport Information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN3108	UN3108	UN3108	UN3108	UN3108
UN proper shipping name	ORGANIC PEROXIDE TYPE E, SOLID (Dibenzoyl peroxide)	ORGANIC PEROXIDE TYPE E, SOLID (Dibenzoyl peroxide)	ORGANIC PEROXIDE TYPE E, SOLID (Dibenzoyl peroxide)	ORGANIC PEROXIDE TYPE E, SOLID (Dibenzoyl peroxide)	ORGANIC PEROXIDE TYPE E, SOLID (Dibenzoyl peroxide). Marine pollutant (Dibenzoyl peroxide, Zinc Stearate)
Transport hazard class(es)	5.2 	5.2 	5.2 	5.2 	5.2 
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	Yes. The environmentally hazardous substance mark is not required.	Yes.
Additional information	- ERG No.145	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.23-2.25 (Class 5).	ERG No.145	The environmentally hazardous substance mark may appear if required by other transportation regulations.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-J, S-R



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		ERG No.145		
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Special precautions for user:

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments:

Not available

Proper shipping name:

Not available

Section 15: Regulatory Information

SARA 313:

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65 WARNING:

This product contains a chemical known to the State of California to cause cancer.

International regulations

International lists:

Australia inventory (AIIC): Not determined

China inventory (IECSC): Not determined

Japan inventory (CSCL): Not determined

Japan inventory (ISHL): Not determined

Korea inventory (KECI): Not determined

New Zealand Inventory of Chemicals (NZIoC): Not determined

Philippines inventory (PICCS): Not determined

Taiwan Chemical Substances Inventory (TCSI): Not determined

Thailand inventory: Not determined

Turkey inventory: Not determined

Vietnam inventory: Not determined



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Section 16: Other Information

Hazardous Material Information System (U.S.A.)

Health	3
Flammability	0
Physical hazards	4

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. 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. Procedure used to derive the classification.

Classification	Justification
ORGANIC PEROXIDES - Type E	Expert judgment
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method

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Key to abbreviations:

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

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

UN = United Nations



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It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that their activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

IMPORTANT NOTICE: The information in this technical data sheet regarding supplier's products, equipment, and processes was obtained through testing in laboratories under controlled conditions. The information is reliable to the best of supplier's knowledge. As supplier cannot anticipate every situation in which supplier's products may be used, supplier does not warrant the suitability, accuracy, or completeness of any such information. Supplier rejects any and all warranties of merchantability or fitness for a particular purpose, whether expressed or implied. It is the user's responsibility to undertake sufficient testing to verify the suitability of supplier's products for their particular application. In no case will supplier be liable for any direct, special, incidental, or consequential damages, to property or life, resulting from the use of supplier's products. The information contained herein shall not be construed as inducement, permission or recommendation to infringe upon any patent rights or other rights of third parties.