



**Naval Facilities Engineering Systems Command Pacific
JBPHH HI**

Draft

WORK PLAN

**ADIT 6 TUNNEL DECONTAMINATION AND
SEALING PROJECT AT RED HILL BULK FUEL
STORAGE FACILITY**

JOINT BASE PEARL HARBOR-HICKAM, HAWAII

December 2022

Work Plan for Tunnel Decontamination and Sealing

This Work Plan details the approach to be used for decontamination of the Adit 6 tunnel. Based on review and consideration of a variety of methods on how to decontaminate the tunnel (see Attachment A1 for options), the safest and quickest course of action to clean the tunnel was to use water, which is what is proposed herein. The scope of work discussed in this Work Plan (with the exception of confirmatory sampling) will be performed by CAPE-Weston JV3, LLC (CAPE) and its subcontractors.

All work will be performed in accordance with all applicable State and local laws, regulations, guidance, and policies, including State of Hawaii Department of Health (HDOH) Hawaii Administrative Rules (HAR) Chapter 11-281 and HDOH Hazard Evaluation Emergency Response (HEER) Technical Guidance Manual (TGM). In addition, this project will be completed in accordance with applicable sections of the federal regulations, including Title 29 of the Code of Federal Regulations (CFR) describing Occupational Safety and Health Standards.

1.1 Objective

The primary objective of this task is to minimize risks related to the release of aqueous film-forming foam (AFFF) concentrate in the Adit 6 tunnel. This objective will be accomplished by providing materials and services to clean and seal approximately 100 feet of the Adit 6 tunnel that was impacted by the AFFF concentrate release that occurred in Adit 6 on November 29, 2022.

The performance criteria is to remove the AFFF concentrate from impacted surfaces (tunnel walls, floor, equipment, etc.) without mobilizing PFAS to soil and groundwater below the tunnel floor. This will be confirmed by subslab sampling to be performed by a separate contractor (AECOM).

1.2 Schedule

CAPE and its subcontractors will mobilize personnel and equipment for this task as soon as possible following receipt of Government approval. Field activities are anticipated to take approximately 7 business days in early January 2023. Work will be performed during day shifts. Anticipated work hours are 0700 to 1730.

NAVFAC will be responsible for provided the HDOH with schedule notifications.

1.3 Personnel

CAPE's subcontractor Pacific Commercial Services (PCS) will provide up to five field technicians to perform decontamination and sealing activities. CAPE's Superintendent and SSHO/QCO will oversee all project activities.

1.4 Field Approach

The following sections summarize the selected approach for decontamination, sealing, and waste management activities. Attachment A1 includes a summary table presenting the decontamination

approach alternatives that were considered. Out of all the alternatives presented, the use of water had the best ability to remove any AFFF concentrate remaining on Adit 6 surfaces with the least amount of impacts to worker health and safety and potential to mobilize any contaminants in the subsurface, as well as incorporating HDOH concerns related to use of a surfactant for cleaning.

The selected approach includes the following steps. Steps 2-6 will be performed on a test area of 2 square feet to ensure no issues arise before proceeding with the rest of the tunnel.

1. Remove and containerize any absorbent materials and debris from the tunnel.
2. Apply water to impacted surfaces (floor, walls, pipes, conduits, equipment) using low volume sprayers, similar to a carpet steam cleaner.
3. Use equipment similar to a carpet steam cleaner (with rotary brushes) to scrub the floor surface. Difficult to access areas (i.e., the steam cleaner cannot access) will be cleaned using long handled brushes (anticipated to be used on top and along the sides of the air handling unit).
4. Immediately collect rinsate or foam generated and containerize for appropriate disposal.
5. Wipe down equipment and appurtenances using damp rags until all free liquid and any AFFF residue has been removed.
6. Pat down cleaned area using absorbent pads to facilitate drying.
7. Once dry, apply acrylic base sealer to floor and lower 24-inches of walls

Each step is discussed in more detail in the subsections below.

1.4.1 Site Preparation

Prior to cleaning activities, PCS will remove any absorbent materials and debris on the surface and cover any electrical connections with plastic (if present) after wiping with a damp cloth to remove any AFFF concentrate residue. Containment will be established along the down gradient boundary of the work area to prevent off-site migration of contaminants. Rinsate or other wastes will not be allowed to exit the tunnel onto bare soil. Best management practices will include placement of plastic sheeting, sandbags, and a 3-inch containment boom. Work zone controls will be established to restrict access. In addition, containment booms and spill berms will be added at the entrance to Adit 6 and at the orange line present within Adit 6 indicating the furthest potential impact of AFFF concentrate.

1.4.2 Decontamination

Low volume sprayers will be used to apply water to all accessible impacted surfaces including the floor, walls, pipes, conduits, and equipment. CAPE and its subcontractors will not disconnect any equipment or fixtures; portable equipment (e.g., ladders, toolboxes, etc.) will be wiped down and temporarily removed as necessary to facilitate cleaning of the tunnel floor and walls. Electrical conduits, panels, and pipelines will be wiped down using clean rags until all free liquid has been removed. Telescopic poles equipped with an absorbent pad or rag(s) to wipe hard-to-reach areas, such as the top of air ducts and between ducts and the tunnel walls; step ladders may be used to

facilitate cleaning of ceiling-mounted equipment. Long-handled brushes will be used to scrub any difficult to reach surfaces. It is anticipated that a steam carpet cleaner with rotary brushes will be used to clean the floor surface.

Any rinsate or foam generated will be immediately collected using the steam cleaner and a shop vac (if needed) and transferred to 55-gallon drums or 275-gallon totes staged on-site pending off-site disposal. Standing water or puddles will not be allowed to form. Any generated water will be removed immediately to minimize the absorption of water by the concrete, which could allow contaminants to migrate deeper into the concrete or leaching into the surrounding soil. As previously mentioned, containment booms and spill berms will be added at the entrance to Adit 6 and at the orange line present within Adit 6 indicating the furthest potential impact of AFFF concentrate. Additional absorbent materials will be readily available to prevent water run-off.

Absorbent pads will be used to pat down the cleaned area to facilitate drying. If necessary, a blower will be used to dry the tunnel surfaces.

1.4.3 Sealing

After cleaning is completed and the surface adequately dry, an acrylic base sealer will be applied to the floor and lower 24-inches of the walls to create a waterproof coating. The sealer will be applied in a single coat using a sprayer. The sealer will be allowed to air dry for at least 24 hours; additional time may be necessary to allow the sealer to set completely. If necessary, a blower will be used to facilitate drying and/or ventilation.

1.5 Waste Management

Absorbent material, used rags, used PPE, rinsate, and any other waste materials generated during the decontamination process will be collected in 55-gallon drums. A sample of any generated water will be collected and analyzed for waste disposal characterization purposes (as discussed in the previously approved Sampling and Analysis Plan). The drums will be appropriately labeled and staged on-site in an approved, designated area pending receipt of the characterization results. All waste materials will be disposed of at an approved facility on the US mainland.

1.6 Materials To Be Used

Potable water will be used to remove AFFF concentrate from the tunnel surfaces. Foundation Armor Solvent Based Acrylic Wet Look Concrete Sealer and Paver Sealer will be used to seal the tunnel floor and lower 24-inches of the walls. Attachment A2 includes the Safety Data Sheet for the sealer.

1.7 Safety Considerations

Level C personal protective equipment (PPE) will be utilized for work performed within the tunnel. Level C PPE will include half-face air purifying respirators with VOC cartridges, as well as chemical protective clothing (coveralls, booties, gloves) when personnel may be exposed to AFFF contamination or chemicals being used on site. Additional safety requirements for this task will be detailed in the activity hazard analysis.

1.8 Confirmatory Sampling

After completion of all tunnel cleaning and sealing activities, a separate environmental contractor (AECOM) will be onsite to perform subslab sampling. It is anticipated that AECOM will use a 6 to 10-inch diameter concrete core machine to core 3 equally spaced holes through the clean floor. After coring is complete, AECOM will use a hand auger to collect discrete soil samples at each location from the base of the concrete floor to 1 foot below the base of the tunnel floor. Each sample location will be handled in accordance with the December 7, 2022 approved Sampling and Analysis Plan and sent for Draft EPA Method 1633 analysis to the approved analytical laboratory. Once coring and sample collection is complete, the borehole will be backfilled with an appropriate mix of concrete. After the concrete is adequately cured (anticipated at 24 hours), the concrete coring location will be sealed with the same (or similar) acrylic sealer discussed in Section 1.4.3 and Section 1.6.

Attachment A1: Alternative Approaches

Potential Clean-up Solution	Implementation Estimate	Advantages	Disadvantages
Water	~4-5 days to complete	Able to minimize surfactant qualities of AFFF prior to concrete sealing. Low risk solution to the health of workers and decreases the risk of breakdown and mobilization of any contamination below the Adit 6 floor.	Liquid solution; potential of mobilizing the solution liquid and PFAS into the formation if left to soak into the concrete and/or encounter concrete cracks.
Simple Green	~5-7 days to complete	Detergents might help cut through any oils and greases present on the concrete, and help remove the AFFF.	Liquid solution; potential of mobilizing the solution liquid and PFAS into the formation if left to soak into the concrete and/or encounter concrete cracks. Could be difficult to ensure all Simple Green is removed from concrete prior to sealing (which could cause a bad seal if not properly removed).
Methanol/ Isopropyl Alcohol	2-3 weeks *This is an estimate based on the expanded safety protocol and ventilation set up requirements.	MeOH or IPA strikes a balance between mobilizing the PFAS so that it can be effectively picked up, while possibly minimizing the effect of penetration into the concrete since the alcohol would evaporate quickly.	a) Liquid solution; potential of mobilizing the solution liquid and PFAS into the formation if left to soak into the concrete and/or encounter concrete cracks.
			b) Vapors from methanol and/or isopropyl alcohol present a hazard for workers cleaning the tunnel, as well as for workers inside the facility. The tunnel system where this will be implemented is an "intake" of air to the greater facility. Exposure to workers in the cleaning area can be mitigated by use of PPE and air monitoring but there is also concern due to presence of electrical equipment and potential for exceeding LEL in a confined space. To offset the introduction of volatile organics into Adit 6, the tunnel would need to be completely blocked and a reverse exhaust system installed (which may not override the velocity of incoming air).

Attachment A2: Safety Data Sheet



SAFETY DATA SHEET

Issue Date 12-May-2015

Revision Date 15-March-2021

Version 2.2

1. IDENTIFICATION

Product identifier

Product Name ARMOR AR350

Recommended use of the chemical and restrictions on use

Recommended Use Concrete Sealing

Uses advised against No Data

Details of the supplier of the safety data sheet

Distributor Address

Foundation Armor 3 Howe Drive, Suite 2, Amherst, NH 03031

Emergency telephone number

Company Phone Number 866-306-0246

24 Hour Emergency Phone Number 800-424-9300 (United States & Canada) 1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 5
Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 2
Flammable Liquids Category 3 Hazardous to the Aquatic Environment - Long Term (Chronic) Hazard Category 2	

Label elements

Emergency Overview

Danger!

Hazard statements

Highly flammable
Toxic to Aquatic Life with Long Lasting Effects
Causes Serious Eye Irritation
May Cause Respiratory Irritation
May Cause Drowsiness or Dizziness
May be Harmful if Swallowed
May be Harmful if Swallowed and Enters Airways
Causes Skin Irritation

**Appearance** Transparent Liquid**Physical state** liquid**Odor** Solvent**Precautionary Statements - Prevention**

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use explosion-proof electrical/ ventilating / lighting/ .? / equipment
 Use only non-sparking tools
 Take action to prevent static discharges
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling
 Use only outdoors or in a well-ventilated area
 Avoid release to the environment
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
 If skin irritation occurs: Get medical advice or attention.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contacts, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
 IF SWALLOWED: Immediately call a POISON CONTROL CENTER/doctor
 Do NOT induce vomiting.
 Take off contaminated clothing and wash before reuse
 In case of fire use, "alcohol resistant" foam, dry chemical, halon or carbon dioxide to extinguish.
 Collect spillage

Precautionary Statements - Storage

Store in well-ventilated place. Keep Cool. Keep container tightly closed. Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local/regional/national regulations.

Hazards not otherwise classified (HNOC)

Repeated exposure may cause skin dryness or cracking

Other Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
Petroleum naphtha, light aromatic	64742-95-6	60 - 100	*
Poly (methyl methacrylate/n-Butyl	28262-63-7	10 - 30	*

methacrylate/Methacrylic acid)			
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*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice	Move out of the dangerous area. Consult a physician. Provide this Safety Data Sheet to the doctor in attendance.
Eye contact	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/attention.
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
Ingestion	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms Eye, Skin, and Respiratory Irritation.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically. For additional information, see Safety Data Sheet.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry Chemical, Alcohol Resistant Foam, Halon or Carbon Dioxide.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

In a fire or if heated a pressure increase may occur and the container may burst.

Hazardous combustion products Carbon dioxide (CO₂). Carbon monoxide.

Explosion data

Sensitivity to Mechanical Impact Not available.

Sensitivity to Static Discharge May be ignited by friction, heat, sparks or flames.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors

accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not allow product to enter any drains or waterways.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.

Methods for cleaning up Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal. Use clean non-sparking tools to collect absorbed material. Dispose according to local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take measures to prevent the buildup of electrostatic charge. Use non-sparking tools. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Incompatible materials Keep away from strong oxidizing agents, strong alkalis, and strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Petroleum Naphtha, Light Aromatic, CAS# 64742-95-6: OSHA 100 ppm TWA. Poly (methyl methacrylate/n-Butyl methacrylate/Methacrylic acid) - CAS# 28262-63-7: None Established.

Appropriate engineering controls

Engineering Controls General/Local Ventilation Recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant gloves at minimum. Wash skin immediately upon contact. Wash hands at mealtime and end of shift.

Respiratory protection Use respiratory protection unless adequate local exhaust ventilation is provided, or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color	liquid Transparent Liquid Transparent Liquid - May have slight color due to performance additives.	Odor Odor threshold	Solvent No data available
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<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not Relevant	
Melting point / freezing point	Not Available	
Boiling point / boiling range	149 °C	
Flash point	> 42 °C (108 °F)	CC (closed cup)
Evaporation rate	Not Available	
Flammability (solid, gas)	Not Relevant	
Flammability Limit in Air		
Upper flammability limit:	7.0%	
Lower flammability limit:	1.0%	
Vapor pressure	Not Available	
Vapor density	Not Available	
Relative density	.902 @ 70 Degrees F	
Water solubility	Insoluble in water	
Solubility in other solvents	Not Available	
Partition coefficient	Not Available	
Autoignition temperature	Not Available	
Decomposition temperature	Not Available	
Kinematic viscosity	Not Available	
Dynamic viscosity	Not Available	
Explosive properties	Not Available	
Oxidizing properties	Not Available	

Other Information

Softening point Molecular weight VOC Content (%) Density Bulk density	Not Relevant Not Available < 700 g/L Not Available Not Available
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10. STABILITY AND REACTIVITY

Reactivity
Not Available

Chemical stability
Stable.

Possibility of Hazardous Reactions
Hazardous polymerization does not occur.

Conditions to avoid
Heat, flames and sparks.

Incompatible materials
Keep away from strong oxidizing agents, strong alkalis, and strong acids.

Hazardous Decomposition Products
Hazardous decomposition products formed under fire conditions, carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Direct contact and vapor inhalation.
Eye contact	Direct contact.
Skin contact	Direct contact.
Ingestion	Direct contact.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum naphtha, light aromatic 64742-95-6	-	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h = 3400 ppm (Rat) 4 h

Information on toxicological effects

Symptoms May cause drowsiness or dizziness if inhaled. May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Causes severe burns. Irritating to skin.
Serious eye damage/eye irritation	Irritating to eyes. Risk of serious damage to eyes.
Irritation	Irritating to eyes, respiratory system and skin.
Sensitization	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP
Reproductive toxicity	Not Available.
STOT - single exposure	Not Available.
STOT - repeated exposure	Not Available.
Aspiration hazard	Not Available.

Numerical measures of toxicity - Product Information

12. ECOLOGICAL INFORMATION

Material is expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Petroleum naphtha, light aromatic 64742-95-6	-	9.22: 96 h Oncorhynchus mykiss mg/L LC50	6.14: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No data available.

Bioaccumulation

No data available.

Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Under RCRA 40 CFR 261 this material is a hazardous waste. Dispose of in accordance with all federal, state, and local regulations. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging	Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

<u>DOT</u>	Combustible Liquid. Not regulated by domestic ground transportation
Marine pollutant	Material is expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
<u>IATA</u>	N/A
<u>IMDG</u>	N/A

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	Yes
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

US State Regulations

California Proposition 65

Not legal for use in the state of California

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 1	Flammability 2	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 1	Flammability 2	Physical hazards 0	Personal protection X

Issue Date 12-May-2015
 Revision Date 15-March-2021
 Revision Note

Disclaimer

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.

End of Safety Data Sheet