

City of Santa Barbara
MATERIAL EXEMPTION REQUEST FOR PESTICIDE APPLICATION

Name Andrew Bermond Department Airport Phone 805-692-6057
Pesticide Applicator (employee or company) Lucas Hathaway or Lenz Pest Control Phone Lenz: 805-284-7990
Application Site 601 Firestone Rd, SB, CA 93117 Specific Location Landscape/lawn areas
Date(s) of Application 08/01/22 – 1/31/23 Date of Request 7/11/2022
Product Name Ditrac Active Ingredient Diphacinone 0.005%
Number of Applications: ☐ One-time ☒ Other Continuous until ground squirrels are controlled
Type: ☐ Emergency ☐ Trial ☒ Programmatic ☐ Other _____
Product type: ☐ Herbicide ☐ Insecticide ☐ Fungicide ☒ Other Rodenticide
Application: ☐ Ornamental ☐ Turf ☐ Golf ☐ Vector Control ☐ Park Tree ☐ Street Tree
☐ Right of Way ☒ Vertebrate pest ☐ Other _____
Is the pesticide on the *Approved Materials List*? ☐ No ☒ Yes If yes, provide the zone (color) Yellow
If the pesticide is not on the *Tiered Materials List*, provide the following screening information. See the IPM Strategy and the *Tiered Materials List* for instructions on screening the pesticide.
EPA Reg # _____ Signal _____ Estimated Tier _____
Restricted ☐ No ☐ Yes/Describe _____
P Waste _____ PBT _____ WA PBT _____ Persistent _____ Mobil _____
Cancer _____ Repro _____ Neuro _____ Endocrine _____
Bird _____ Fish _____ Bees _____ Wildlife _____

☒ Attach product label and MSDS to this form.

Describe the pest problem.

Response: There is visible and considerable damage to the lawns and landscape areas surrounding the Airport Administration building (601 Firestone Rd) due to the copious amounts of California ground squirrels and their burrows. Ground squirrel bait has been recommended by Lenz Pest Control as the most efficient means of ground squirrel eradication.

Describe the management goals and objectives for this site.

Response: To maintain the lawn and landscape areas around the Airport Administration Building and to protect individuals from harm (ankle/foot injuries) due to ground squirrel holes. Also, to prevent pests from entering into the AOA (Air Operations Area) or airfield as a whole for the pests could interfere with aircraft on the airfield movement area and/or cause erosion and damage to the airfield/taxiways/runways and could, in turn, cause damage to aircraft from their burrows.

What is the damage threshold for this pest at this site?

Response: Control of ground squirrels is past due as they procreate rapidly and spread to other nearby areas as populations increase. Observations from Todd Newell (former Grounds Maintenance Crew Leader) over the months from January through April, at least 6 different burrows around the Administration Building were located. Two of these burrows had been constructed in April. As the Grounds Maintenance Crew Leader (now Parks Supervisor) I would agree with the Lenz Pest Control recommendation for using Diphacinone as the best and most efficient means of eradication.

Describe the monitoring of the pest and potential predators that was conducted and the control methods previously used at the site.

Response: Ground squirrel control history has not been found in the files at Airport Facilities Maintenance. Monitoring has been ongoing for the last year and trapping with two different types of mechanical traps has been utilized but with little efficacy. The ground squirrels would find the in-ground trap and burrow around it, thus causing more damage. Only a few of the young were caught with traps but that impact is not enough.

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Describe how the product would be applied including frequency, concentration, and method of application.

Response: Application of the product would be with a bait station like those seen for rats and other small rodents around the foundation of buildings, though these bait stations would be secured to a fence or tree. The bait stations would be placed at intervals of 20-100 feet around the active ground squirrel areas and filled with 2-4 pounds of bait per station and checked/filled every 1-3 days depending on how much has been consumed. The bait stations will be inside the Air Operations Area (AOA) and away from public access.

What non-target impacts are anticipated?

Response: Rats, mice or other rodents might be affected since the bait station will allow rodents of ground squirrel size or smaller into them. These animals are also considered nuisance pests and therefore will not be detrimental.

How does the use of this product help achieve the site management goals? Note if this is curative or preventative.

Response: This product is recognized as the best means of significantly reducing and/or eradicating California ground squirrel populations and bring the issue back to a manageable level where mechanical trapping would then solely be utilized. Use of Diphacinone is considered curative since it will kill the pest once enough of it is eaten.

How will the effectiveness of this product be monitored? Include expected results and indicators of success.

Response: Visual monitoring of ground squirrel surface activity along with monitoring of each burrow to see if they have been recently excavated (we fill in the burrows when maintenance activities are preformed and the ground squirrels quickly open those passageways back up soon after). Also the checking of the bait stations every 1-3 days will give us indication when feeding has stopped, thus meaning the ground squirrels have consumed enough product to effectively be exterminated.

Describe site conditions, for example consider the following: restricted access, distance from a creek or body of water, degree of runoff, site is a pesticide-free zone, etc.

Response: No creeks, bodies of water or other aquatic items will be affected, especially since there is no forecasted rain in the foreseeable future and the bait will be enclosed within the trap. Also, the bait traps will be placed within the AOA where access is restricted.

List alternatives considered, alternatives implemented and why they were eliminated.

Response: Trapping has been utilized for months prior through use of two different kinds of traps, one above ground and one in-ground. Results have been minimal at best since the population of ground squirrels is so large. Traps are still being set but the squirrels have learned to avoid them.

Justification: describe why is applying this pesticide is the best solution and why a less-hazardous chemical, non-chemical option or taking no action is not feasible.

Response: Chemical use for eradication is the best course of action at this time due to the population size and the destructive habits to the lawn and landscape from the California ground squirrel. This chemical is already the least hazardous chemical for extermination where it takes multiple feedings for the ground squirrels to deacease. Any other chemical application would not be sustainable and the population needs to be thinned considerably or even entirely to curb the impact these rodents cause. Taking no action is not feasible since manual trapping has shown weak results and the population of ground squirrels continues to grow and could potentially affect other landscapes/lawns on adjacent buildings in the near future.

Was outside expertise utilized? ☐ No ☒ Yes / Describe

Response: Dale from Lenz Pest Control was contacted to advise on different courses of action and provided the recommendation to use Diphacinone as the most effective treatment method to thin/eradicate the population to a manageable size and with subsequent mechanical traps thereafter.

Describe future plans to prevent using the chemical again.

Response: Once the population of California ground squirrels in at a manageable point, above-ground mechanical traps should be effective to control a small population.

Signatures _____

Department IPM Coordinator

City IPM Coordinator

City of Santa Barbara
MATERIAL EXEMPTION REQUEST FOR PESTICIDE APPLICATION

Completed by the City of Santa Barbara Staff IPM Committee

Vote Tally ____ Disposition: ☐ Approved ☐ Denied/Reason _____

If approved, follow the attached best management practices.

Comments:

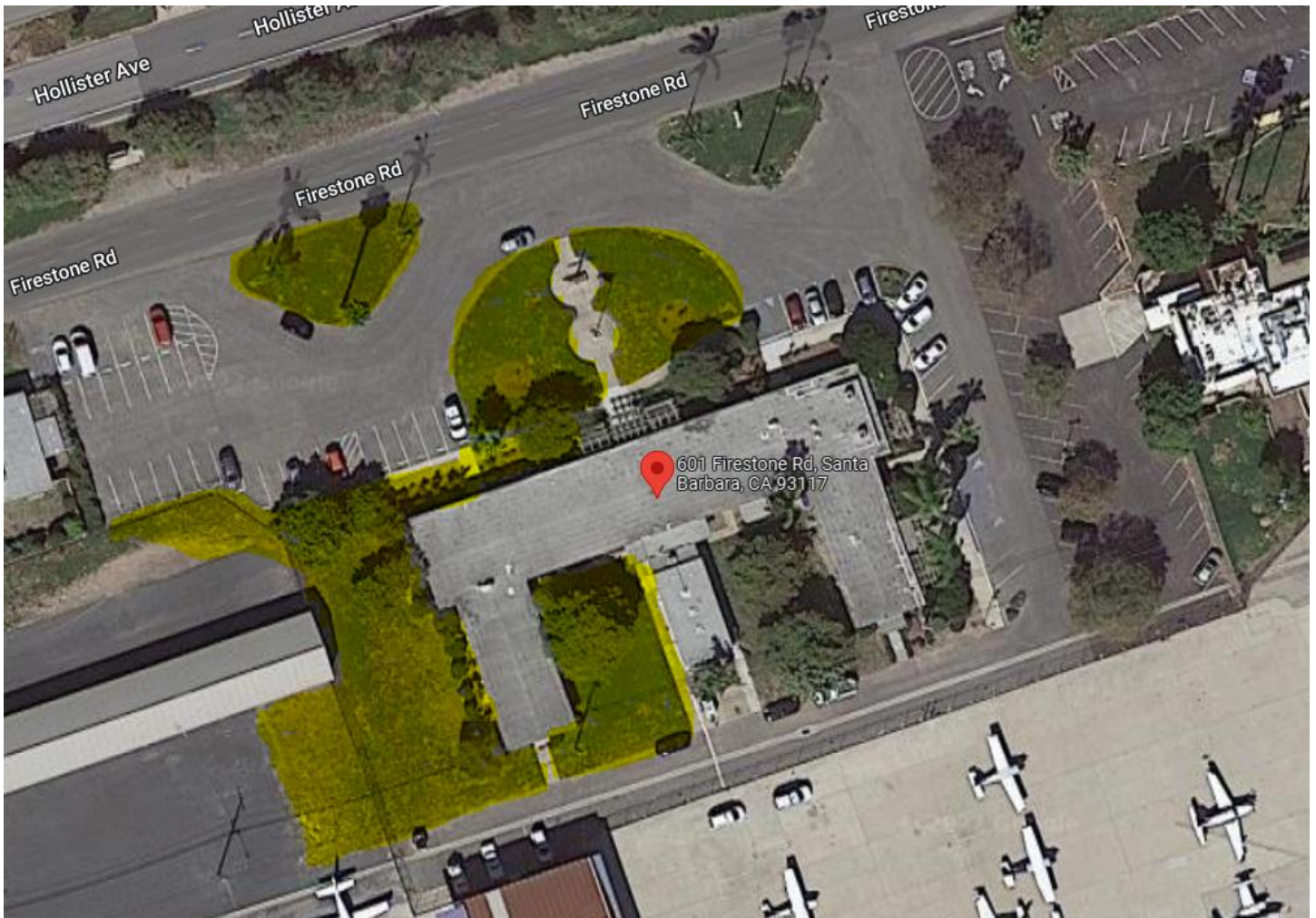
Completed by the IPM Advisory Committee

Vote Tally ____ Disposition: ☐ Approved ☐ Denied/Reason _____

If approved, follow the attached best management practices.

Comments:

City of Santa Barbara
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Areas highlighted in
YELLOW are to be
treated for California
ground squirrels

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

READ THIS LABEL: Read this entire label and follow all use directions and use precautions. Use only for the sites, pests, and application methods described on this label.

IMPORTANT: Do not expose children, pets, or non-target animals to rodenticides. To help to prevent accidents:

1. Store unused product out of reach of children and pets.
2. Apply bait in secured, tamper-resistant bait stations. These stations must be resistant to destruction by dogs and by children under six years of age, and must be used in a manner that prevents such children from reaching into bait compartments and obtaining bait. Units must be secured or otherwise immobilized.
3. Dispose of product container and unused, spoiled, or unconsumed bait as specified on this label.

Do not sell this product in individual containers holding less than 4 pounds of bait.

CALIFORNIA GROUND SQUIRRELS

USE RESTRICTIONS: This product may be used for the control of the California ground squirrel (*Spermophilus beecheyi*). Product may only be applied within 100 feet of man-made structures. Examples of such structures include homes and other permanent or temporary residences, food processing facilities, industrial and commercial buildings, agricultural and public buildings, and related structures around and associated with these sites. Bait must be placed in secured, tamper-resistant bait stations.

APPLICATION DIRECTIONS:

Place and secure tamper-resistant bait stations near active burrows or in other locations where activity of California ground squirrels is evident. Space these bait stations at intervals of 20 to 75 feet in areas infested by California ground squirrels. Apply 2-4 pounds of bait per bait station. Check bait stations every 2-3 days, or more frequently, for signs of bait consumption and possible problems in the treated area. Replenish bait stations as necessary to maintain a continuous supply of bait but not to exceed 4 pounds of bait in any one station. Continue baiting until there no longer are signs of feeding on bait by California ground squirrels.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed. Keep away from children, domestic animals and pets.

All handlers (including applicators) must wear: shoes plus socks, and gloves. Any person who retrieves carcasses or unused bait following application of this product must wear waterproof gloves.

DITRAC®

GROUND SQUIRREL BAIT

KILLS CALIFORNIA GROUND SQUIRRELS

This Product May Only be Used Within 100 Feet of Man-made Structures to Control California Ground Squirrels

ACTIVE INGREDIENT:

Diphacinone (CAS #82-66-6): 0.005%

OTHER INGREDIENTS: 99.995%

TOTAL 100.000%

KEEP OUT OF REACH OF CHILDREN CAUTION

See side panels for First Aid and additional precautionary statements.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

Pesticide Disposal: Dispose of wastes resulting from the use of this product in trash or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container. **[Plastic:]** Offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; or by incineration. In most states, burning is not allowed. **[Paper:]** Dispose of empty container by placing in trash, at an approved waste disposal facility or by incineration. In most states, burning is not allowed.

WARRANTY: To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

NET WEIGHT: 50 lbs (22.6 kg)

EPA REG. NO.: 12455-145

EPA EST. NOS. 12455-WI-1K, 12455-WI-2P, 12455-WI-3W

Superscript is first letter of the lot number.

Manufactured by:



User Safety Requirements

Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet and change into clean clothing.

FIRST AID HAVE LABEL WITH YOU WHEN OBTAINING TREATMENT ADVICE

If Swallowed

- Call a poison control center, doctor, or 1-877-854-2494 immediately for treatment advice.
- Have a person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.

NOTE TO PHYSICIAN

If swallowed, this material may reduce the clotting ability of the blood and cause bleeding. If ingested, administer Vitamin K₁ intramuscularly or orally. Repeat as necessary based on monitoring of prothrombin times.

TREATMENT FOR PET POISONING

If animal eats bait, call veterinarian or 1-877-854-2494 at once.

NOTE TO VETERINARIAN

Anticoagulant Diphacinone: For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K₁.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to mammals and birds and other wildlife. Dogs, cats and other predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinseate.





DITRAC[®] GROUND SQUIRREL BAIT

SAFETY DATA SHEET

ACCORDING TO REGULATION: OSHA
Hazard Communication Standard 29 CFR 1910.1200

DATE OF ISSUE:
January 2020

PREPARED BY:
CAR

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: DITRAC[®] GROUND SQUIRREL BAIT

EPA Registration Number: 12455-145

Relevant identified uses: Anticoagulant Rodenticide - Ready to use

Uses advised against: Use only for the purpose described above

MANUFACTURER/SUPPLIER:

Bell Laboratories, Inc.

3699 Kinsman Blvd.

Madison, WI 53704, USA

Email: sds@belllabs.com

Phone: 608-241-0202

Medical or Vet Emergency: 877-854-2494 or 952-852-4636

Spill or Transportation Emergency: 800-424-9300 (CHEMTREC)

SECTION 2. HAZARDS IDENTIFICATION

Classification according to Regulation OSHA 1910.1200(d): Not classified

Signal Word: None

See Section 15 for information on FIFRA applicable safety, health, and environmental classifications.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	% By weight
Diphacinone [2-(Diphenylacetyl)-1H-indene-1,3(2H)-dione]	82-66-6	0.005%
Inert and Non-Hazardous Ingredients (Unlisted components are non-hazardous)	Proprietary	99.995%

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Ingestion: Call physician or emergency number immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting unless instructed by physician.

Inhalation: Not applicable.

Eye contact: Hold eye open and rinse slowly with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation develops, obtain medical assistance.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. If irritation develops, obtain medical assistance.

Most important symptoms and effects, both acute and delayed

Ingestion of excessive quantities may cause nausea, vomiting, loss of appetite, extreme thirst, lethargy, diarrhea, bleeding.

Advice to physician: If ingested, administer Vitamin K₁ intramuscularly or orally as indicated for bishydroxycoumarin overdoses. Repeat as necessary as based upon monitoring of prothrombin times.

Advice to Veterinarian: For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K₁. If needed, check prothrombin times every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media: water, foam or inert gas.

Unsuitable Extinguishing Media: None known.

Special hazards arising from the mixture: High temperature decomposition or burning in air can result in the formation of toxic gases, which may include carbon monoxide.

Advice for firefighters: Wear protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Gloves should be worn when handling the bait. Collect spillage without creating dust.

Environmental precautions: Do not allow bait to enter drains or water courses. Where there is contamination of streams, rivers or lakes contact the appropriate environment agency.

Methods and materials for containment and cleaning up

For Containment: Sweep up spilled material immediately. Place in properly labeled container for disposal or re-use.

For Cleaning Up: Wash contaminated surfaces with detergent. Dispose of all wastes in accordance with all local, regional and national regulations.

Reference to other sections: Refer to Sections 7, 8 & 13 for further details of personal precautions, personal protective equipment and disposal considerations.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Do not handle the product near food, animal foodstuffs or drinking water. Keep out of reach of children. Do not use near heat sources, open flame, or hot surfaces. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Conditions for safe storage, including any incompatibilities: Store only in original container in a cool, dry place, inaccessible to pets and wildlife. Do not contaminate water, food or feed by storage or disposal. Keep containers closed and away from other chemicals.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Established Limits

Component	OSHA	ACGIH	Other Limits
Diphacinone	Not Established	Not Established	Not Established

Appropriate Engineering Controls: Not required

Occupational exposure limits: Not established

Personal Protective Equipment:

Respiratory protection: Not required

Eye protection: Not required

Skin protection: Shoes plus socks, and waterproof gloves.

Hygiene recommendations: Wash thoroughly with soap and water after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance/Color:	Pale green granular pellet
Odor:	Sweet grain-like
Odor Threshold:	No Data
pH:	No Data
Melting point:	No Data
Boiling point:	No Data
Flash point:	No Data
Evaporation rate:	No Data
Flammability:	No Data
Upper/lower flammability or explosive limits:	No Data
Vapor Pressure:	No Data
Vapor Density:	No Data
Relative Density:	1.27 g/mL @ 20°C
Solubility (water):	No Data
Solubility (solvents):	No Data
Partition coefficient: n-octanol/water:	No Data
Auto-ignition temperature:	No Data
Decomposition temperature:	No Data
Viscosity:	No Data

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Stable when stored in original container in a cool, dry location.

Chemical stability: Stable when stored in original container in a cool, dry location.

Possibility of hazardous reactions: Refer to Hazardous decomposition products

Conditions to avoid: Avoid extreme temperatures (below 0°C or above 40°C).

Incompatible materials: Avoid strongly alkaline materials.

Hazardous decomposition products: High temperature decomposition or burning in air can result in the formation of toxic gases, which may include carbon monoxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

LD50, oral (ingestion): >5000 mg/kg (rats) (Diphacinone Rat LD50 oral: 2.3 mg/kg bw).

LD50, dermal (skin contact): > 5001 mg/kg (rats) (Diphacinone rabbit LD50 dermal: 3.6 mg/kg bw).

LC50, inhalation: Product is a granular pellet and therefore exposure by inhalation is not relevant.

Skin corrosion/irritation: Not irritating to skin.

Serious eye damage/Irritation: Not irritating to eyes.

Respiratory or skin sensitization: Dermal sensitization: Not a Sensitizer (Guinea pig maximization test).

Germ cell mutagenicity: Contains no components known to have a mutagenetic effect.

Carcinogenicity: Contains no components known to have a carcinogenetic effect.

Components	NTP	IARC	OSHA
Diphacinone	Not listed	Not listed	Not listed

Reproductive Toxicity: No data

Aspiration Hazard: Not applicable. Product is a granular pellet.

Target Organ Effects: Reduced blood clotting ability.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Effects: This product is extremely toxic to birds and mammals. Do not apply this product directly to water, where surface water is present or to intertidal areas below the mean high water mark. Carefully follow label cautions and directions to reduce hazards to children, pets and non-target wildlife.

Persistence and degradability: Product is inherently biodegradable.

Bioaccumulative potential: Not determined. Diphacinone water solubility is extremely low (< 0.1mg/l).

Mobility in Soil: Not determined. Mobility of Diphacinone in soil is considered to be limited.

Other adverse effects: None.

SECTION 13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

Pesticide Disposal: Wastes resulting from the use of this product according to the label instructions must be disposed of as specified on the product label. **RCRA waste status:** This product is not regulated as a hazardous waste under Federal law. State and local regulation may affect the disposal of this product. Consult your state or local environmental agency for disposal of waste generated other than by use according to label instructions.

Container Handling: Non-refillable container. Do not reuse or refill this container. [Plastic:] Offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; or by incineration. In most states, burning is not allowed. [Paper:] Dispose of empty container by placing in trash, at an approved waste disposal facility or by incineration. In most states, burning is not allowed.

RCRA Waste Status: This product is not regulated as a hazardous waste under Federal law.

SECTION 14. TRANSPORT INFORMATION

UN number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group: Not regulated

Environmental Hazards

DOT Road/Rail: Not considered hazardous for transportation via road/rail.

DOT Maritime: Not considered hazardous for transportation by vessel.

DOT Air: Not considered hazardous for transportation by air.

Freight Classification: LTL Class 60

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

Special precautions for user: None

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

FIFRA: This pesticide product is regulated by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The safety, health, environmental, and hazard information required on the pesticide label is listed below and reflected throughout this SDS. The pesticide label also includes other important information, including directions for use.

Signal Word: CAUTION

Precautionary Statements: Contains the anticoagulant Diphacinone which may cause bleeding if ingested. Harmful if swallowed or absorbed through the skin. Keep away from children, domestic animals and pets. Do not get in eyes, on skin or on clothing.

Potential Health Effects:

Eye Contact: May cause irritation

Skin Contact: Non-irritating to the skin

Ingestion: Harmful if swallowed

TSCA: All components are listed on the TSCA Inventory or are not subject to TSCA requirements

CERCLA/SARA 313: Not listed

CERCLA/SARA 302: Not listed

PROPOSITION 65: Contains no components subject to warning requirement.

SECTION 16. OTHER INFORMATION

For additional information, please contact the manufacturer noted in Section 1.

NFPA	Health: 1 (caution)	Flammability: 1 (slight)	Reactivity: 0 (stable)	Specific Hazard: None
HMIS	Health: 2 (moderate)	Flammability: 1 (slight)	Reactivity: 0 (minimal)	Protective Equipment: B

Disclaimer: The information provided in this Safety Data Sheet has been obtained from sources believed to be reliable. Bell Laboratories, Inc. provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your consideration and investigation. The user is responsible to ensure that they have all current data, including the approved product label, relevant to their particular use.

City of Santa Barbara
MATERIAL EXEMPTION REQUEST FOR PESTICIDE APPLICATION

Dept: Airport IPM Coordinator: Andrew Bermond, Facilities Manager Phone: (805) 692-6057

Pesticide Applicator (employee or company) Name: Grounds Maintenance Crew Leader Phone:

Application Site: Santa Barbara Airport Specific Location: Airfield Date(s): Oct - May 2022-23

*Product Name: Round-Up ProMax Active Ingredient: Glyphosate %: 41

Number of Applications: ☐ One-time ☒ Other - as needed for thorough weed eradication

Type: ☐ Emergency ☐ Trial ☒ Programmatic ☐ Other _____

Product type: ☒ Herbicide ☐ Insecticide ☐ Fungicide ☐ Other _____

Application: ☐ Ornamental ☐ Turf ☐ Golf ☐ Vector Control ☐ Park Tree ☐ Street Tree
☐ Right of Way ☐ Vertebrate pest ☒ Other Visual Obstruction abatement _____

Is the pesticide on the *Tiered Materials List*? ☐ No ☒ Yes If yes, provide the Tier 2

If the pesticide is not on the *Tiered Materials List*, provide the following screening information. See the IPM Strategy and the *Tiered Materials List* for instructions on screening the pesticide.

EPA Reg # Roundup # 524-475 Signal CAUTION Estimated Tier _____

Restricted ☒ No ☐ Yes/Describe _____

P Waste _____ PBT _____ WA PBT _____ Persistent _____ Mobil _____

Cancer _____ Repro _____ Neuro _____ Endocrine _____

Bird _____ Fish _____ Bees _____ Wildlife _____

☒ Attach product label and MSDS to this form.

Describe the pest problem.

As a commercial service airport, Santa Barbara Airport is required by 14 CFR Part 139 to maintain unobstructed visibility of lights and signs on the airfield. Airfield lights and signs are used by pilots to safely navigate the airfield during takeoff, landing, and taxiing maneuvers.

Describe the management goals and objectives for this site.

The management goal is to ensure the presence of a safe operating environment for aircraft and the flying public through clear communication of critical navigation information provided by airfield lighting and signage.

What is the damage threshold for this pest at this site?

Visual obstruction of a light or sign when viewed from center of paved surface at a height of 5 feet above ground level.

Describe the monitoring of the pest and potential predators that was conducted and the control methods previously used at the site.

Both chemical and mechanical treatment methods are employed by the Airport to assure compliance with federal regulations. Mechanical treatment is more responsive, but is also more labor intensive and exposes staff to a hazardous operating environment.

Describe how the product would be applied including frequency, concentration, and method of application.

The product will be applied according to label instructions at a 1.5% spray solution. Application will target early in the growing season when plants are small, actively growing, and easier to control. Application will be to the minimum area needed to maintain visibility of lights and signs using a hand sprayer to efficiently direct material.

What non-target impacts are anticipated?

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No non-target impacts are anticipated. The material will be spot-sprayed and applied with a pressurized handheld or backpack sprayer. Spray will be adjusted to a coarse droplet size to minimize product drift.

How does the use of this product help achieve the site management goals? Note if this is curative or preventative.

This is a preventative effort. Emergent weeds require weekly attention to ensure they do not create a visual obstruction for any of the hundreds of lights and signs on the airfield.

How will the effectiveness of this product be monitored? Include expected results and indicators of success.

Airfield inspections are conducted at least twice daily. Any observed obstructions will be documented and promptly addressed.

Describe site conditions, for example consider the following: restricted access, distance from a creek or body of water, degree of runoff, site is a pesticide-free zone, etc.

This site is currently fenced off and will remain inaccessible to the public during and following the herbicide application to the application(s) of Roundup Pro and Surflan A.S. No products will be used within 25 feet of the creek top of bank. The site slopes less than 2 percent toward Tecolotito and Carneros Creeks. This FAA Restricted area is a red zone.

List alternatives considered, alternatives implemented and why they were eliminated.

The alternative method is mechanical control operations on the airfield. Chemical control promotes safety by minimizing worker exposure to the high energy, high decibel, active airfield environment, and prevents unnecessary runway closures required to allow crews and equipment to access safety areas closest to runway edges. Chemical control allows for one periodic application that can be accomplished between aircraft operations. With this approach, weeds are controlled without impacting aircraft operation and with minimal direct staff exposure to a hazardous work environment.

Justification: describe why is applying this pesticide is the best solution and why a less-hazardous chemical, non-chemical option or taking no action is not feasible.

Roundup Pro is the least toxic effective systemic weed control product currently available.

Was outside expertise utilized? ☒ No ☐ Yes / Describe

Describe future plans to prevent using the chemical again.

Paving of airfield light lanes is an unfunded future project in the City's Capital Improvement Program. Periodic application will be necessary until that project is completed.

Signatures _____
Department IPM Coordinator City IPM Coordinator

Completed by the City of Santa Barbara Staff IPM Committee

Vote Tally _____ Disposition: ☐ Approved ☐ Denied/Reason _____

If approved, follow the attached best management practices.

Comments:

SAFETY DATA SHEET



ROUNDUP PROMAX® HERBICIDE

Version 1.0 / USA
102000037605

1/11
Revision Date: 09/24/2020
Print Date: 09/24/2020

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name	ROUNDUP PROMAX® HERBICIDE
Product code (UVP)	86723530
SDS Number	102000037605
EPA Registration No.	524-579

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

Use	Herbicide
Restrictions on use	See product label for restrictions.
Information on supplier	
Supplier	Bayer Environmental Science A division of Bayer CropScience LP 5000 Centregreen Way, Suite 400 Cary, NC 27513 USA
Responsible Department	Email: SDSINFO.BCS-NA@bayer.com
Emergency telephone no.	
Emergency Telephone Number (24hr/ 7 days)	1-800-334-7577
Product Information Telephone Number	1-800-331-2867

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Acute toxicity(Inhalation): Category 4

Labelling in accordance with regulation HCS 29CFR §1910.1200



Signal word: Warning

Hazard statements

Harmful if inhaled.

Precautionary statements

SAFETY DATA SHEET



ROUNDUP PROMAX® HERBICIDE

Version 1.0 / USA
102000037605

2/11
Revision Date: 09/24/2020
Print Date: 09/24/2020

Avoid breathing mist/ spray.
Use only outdoors or in a well-ventilated area.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor/physician if you feel unwell.

Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.
No health hazards not otherwise classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Potassium salt of glyphosate	70901-12-1	48.7
Surfactant blend (proprietary)		8.8

The specific chemical identity and/or concentration range is being withheld because it is trade secret information.

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Get medical attention if irritation develops and persists.
Eye contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Most important symptoms and effects, both acute and delayed

Symptoms	To date no symptoms are known.
Indication of any immediate medical attention and special treatment needed	
Risks	This product is not a cholinesterase inhibitor.

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Treatment	Treatment with atropine and oximes is not indicated. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.
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SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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Unsuitable	High volume water jet
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Special hazards arising from the substance or mixture	In the event of fire the following may be released: Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NO _x), Oxides of phosphorus
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Advice for firefighters

Special protective equipment for firefighters	In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. Equipment should be thoroughly decontaminated after use.
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Further information	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
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Flash point	does not flash
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Auto-ignition temperature	No data available
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Lower explosion limit	Not applicable
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Upper explosion limit	Not applicable
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Explosivity	Not explosive
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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions	Use personal protective equipment. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.
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Methods and materials for containment and cleaning up

Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.
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Additional advice	Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.
Reference to other sections	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Hygiene measures Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing. Keep working clothes separately. Garments that cannot be cleaned must be destroyed (burnt).

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in original container. Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in a place accessible by authorized persons only. Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode. Protect from freezing. Partial crystallization may occur on prolonged storage below the minimum storage temperature. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No known occupational limit values.

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

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Hand protection	Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton) Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.
Eye protection	Use tightly sealed goggles and face protection.
Skin and body protection	Wear long-sleeved shirt and long pants and shoes plus socks.
General protective measures	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form	Liquid, clear
Colour	light yellow to light red brown
Odour	like soap
Odour Threshold	No data available
pH	4.3 - 4.8 (6.77 %) (23 °C) (deionized water)
Melting point/range	200 °C
Boiling Point	No data available
Flash point	does not flash
Flammability	No data available
Auto-ignition temperature	No data available
Minimum ignition energy	Not applicable
Self-accelarating decomposition temperature (SADT)	No data available
Upper explosion limit	Not applicable
Lower explosion limit	Not applicable
Vapour pressure	< 0.0000001 mmHg (25 °C)

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Evaporation rate	No data available
Relative vapour density	No data available
Relative density	1.356 (20 °C) Water at 15.6 °C
Density	1.36 g/cm ³ (20 °C)
Water solubility	completely miscible
Partition coefficient: n-octanol/water	log Pow: -3.2 (25 °C) The value mentioned relates to the active ingredient glyphosate.
Partition coefficient: n-octanol/water	Potassium salt of glyphosate: log Pow: < -3.2 (25 °C)
Viscosity, dynamic	No data available
Viscosity, kinematic	No data available
Oxidizing properties	No data available
Explosivity	Not explosive
Other information	Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	
Thermal decomposition	Stable under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	Galvanised steel, Carbon steel, Unlined mild steel Store only in the original container.
Hazardous decomposition products	Hazardous products of combustion: see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Ingestion, Eye contact, Inhalation
Immediate Effects Eye	May cause eye irritation.

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Skin Not expected to produce significant adverse effects when recommended use instructions are followed.

Ingestion Not expected to produce significant adverse effects when recommended use instructions are followed.

Inhalation May be harmful if inhaled.

Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 5,000 mg/kg
Test conducted with a similar formulation.

Acute inhalation toxicity LC50 (Rat) > 2.58 mg/l
Exposure time: 4 h
Determined in the form of liquid aerosol.
highest concentration tested
Test conducted with a similar formulation.

Acute dermal toxicity LD50 (Rat) > 5,000 mg/kg
Test conducted with a similar formulation.

Skin corrosion/irritation Slight irritant effect - does not require labelling. (Rabbit)
Test conducted with a similar formulation.

Serious eye damage/eye irritation Moderate eye irritation. (Rabbit)
Test conducted with a similar formulation.

Respiratory or skin sensitisation Skin: Non-sensitizing. (Guinea pig)
OECD Test Guideline 406, Buehler test
Test conducted with a similar formulation.

Assessment STOT Specific target organ toxicity – single exposure

Potassium salt of glyphosate: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity – repeated exposure

Potassium salt of glyphosate did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

Potassium salt of glyphosate is not considered mutagenic.

Assessment carcinogenicity

Potassium salt of glyphosate: Based on available data, the classification criteria are not met.
Important comment to IARC Listing: Our expert opinion is that classification as a carcinogen is not warranted.

ACGIH

None.

NTP

None.

IARC

Potassium salt of glyphosate

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Overall evaluation: 2A

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None.

Assessment toxicity to reproduction

Potassium salt of glyphosate: Based on available data, the classification criteria are not met.

Assessment developmental toxicity

Potassium salt of glyphosate: Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

The toxicological data refer to a similar formulation.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50 (Cyprinus carpio (Carp)) 4.0 mg/l static test; Exposure time: 96 h Test conducted with a similar formulation. LC50 (Lepomis macrochirus (Bluegill sunfish)) 5.2 mg/l static test; Exposure time: 96 h Test conducted with a similar formulation.
Chronic toxicity to fish	Oncorhynchus mykiss (rainbow trout) flow-through test NOEC: ≥ 9.63 mg/l The value mentioned relates to the active ingredient glyphosate.
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 8.0 mg/l static test; Exposure time: 48 h Test conducted with a similar formulation.
Chronic toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 12.5 mg/l Exposure time: 21 d The value mentioned relates to the active ingredient glyphosate.
Toxicity to aquatic plants	EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.46 mg/l static test; Exposure time: 72 h Test conducted with a similar formulation.
Biodegradability	Potassium salt of glyphosate: Not readily biodegradable.
Koc	Potassium salt of glyphosate: Koc: 884
Bioaccumulation	Potassium salt of glyphosate: Bioconcentration factor (BCF) < 1
Mobility in soil	Potassium salt of glyphosate: Variable, depends on temperature, soil type, soil moisture, soil pH and organic matter content.
Results of PBT and vPvB assessment	

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PBT and vPvB assessment	Potassium salt of glyphosate: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
Additional ecological information	No further ecological information is available.
Environmental precautions	Apply this product as specified on the label. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Retain and dispose of contaminated wash water.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Do not contaminate water, food, or feed by disposal. Follow all local/regional/national/international regulations.
Contaminated packaging	Follow advice on product label and/or leaflet. Do not re-use empty containers. Triple rinse containers. Puncture container to avoid re-use. Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke.
RCRA Information	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

Freight Classification:	COMPOUNDS, TREE OR WEED KILLING, N.O.I. other than poison, HAVING A DENSITY OF 20 LBS OR GREATER PER CUBIC FOOT
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SECTION 15: REGULATORY INFORMATION

This product contains material(s) which are Trade Secret and are on various Regulatory Lists.
These material(s) are not listed below.

EPA Registration No. 524-579

US Federal Regulations

TSCA list

Water 7732-18-5

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No export notification needs to be made.

SARA Title III - Section 302 - Notification and Information

Not applicable.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

US States Regulatory Reporting

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

None.

Environmental

CERCLA

None.

Clean Water Section 307(a)(1)

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word: Caution!

Hazard statements: Causes moderate eye irritation.

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SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 1 Instability - 1 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1 Flammability - 1 Physical Hazard - 1 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: New Safety Data Sheet.

Revision Date: 09/24/2020

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