# City of Santa Barbara MATERIAL EXEMPTION REQUEST FOR PESTICIDE APPLICATION

Dept Park	s and Recreation	n IPM (	CoordinatorEr	in Markey P	hone _(805) 560-	7549
Pesticide App	olicator (employee	e or company) Na	meEnvir	oscapingPh	one(805) 455-8	3405_
Application Si	iteLas Positas	Road Sp	ecific Location_	_East side of road, at a	and north of Porte	esuello Ave
Date(s) of Ap	plicationMay/	June 2022	Date of Request	t2/16/2022		
Product Name	e <u>Roundup</u>	custom Activ	e Ingredient	glyphosate		
Number of Ap	plications:	☐ One-time	⊠Otheron	e-time with possible fo	llow up re-treatm	ent required
• Type:	Em	ergency 🚨 Tria	l Progra	mmatic 🛚 Other		
Product type:	⊠ Herbicide	☐ Insecticide	☐ Fungicide	Other		
Application:	Ornamenta	I Turf	☐ Golf	☐ Vector Control	□ Park Tree	☐ Street Tree
	☐ Right of Wa	ay 🖵 Vertebrate p	est	Otherinvasive	plant	
Is the pesticid	le on the <i>Tiered I</i>	Materials List? 🗖	f yes, provide the Tier _2/yellow			
•		iered Materials Li structions on scre		ollowing screening info de.	rmation. See the	e IPM Strategy and
EPA	Reg #		Signal	E	Estimated Tier	
Restr	ricted 🗆 No 🔻	Yes/Describe				
P Wa	ste	PBT	WA PBT	Persister	nt	Mobil
Cancer		Repro	Neuro	Endocrine	e	
Bird _		Fish	Bees	Wildlife _		

☑ Attach product label and MSDS to this form.

#### Describe the pest problem.

Pampas grass an invasive, exotic plant that causes negative impacts to creek and wetland habitat function, has colonized a small wetland adjacent to Las Positas road. Pampas grass forms very dense, clusters that can prevent the natural recruitment of native vegetation, displace existing native habitat, and reduce food resources for wildlife. It is very fast growing and also easily spreads by seed.

Once established this species is very difficult to remove by hand with very dense root systems, and mechanical removal within this wetland environment is not feasible.

#### Describe the management goals and objectives for this site.

The goal is to eliminate pampas grass from this site. Small individuals will be hand dug out, the large established individuals will be cut and sprayed with herbicide. Any new seedling that come into the site will be hand removed.

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

Any living pampas grass plant material will trigger removal action. New seedlings will be hand removed but spot retreatment of larger individuals may be required to ensure complete eradication. Pampas grass has an extremely rapid growth rate and becomes increasingly difficult to remove once established.

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

The site has been monitored by the Creeks Division and will continue to be once the project is initiated. No previous control measures were employed.

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

Large pampas grasses would be cut to 2-4 inches above ground level, and herbicide would be immediately sprayed on the remaining foliage. The area would be rechecked in 3-4 weeks for any regrowth and retreated if necessary.

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#### What non-target impacts are anticipated?

Because the application is so localized we will minimize pesticide drift to the maximum extent possible. Blue dye will lessen the amount of excess application of herbicide. No non target impacts are anticipated.

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

This is a curative method since the pampas grass is already established at this sites and the management goal is complete removal.

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

Short-term success will be measured using visual observations of the site to determine if the target weed species has been eradicated from the site. No re-growth of the target species will be considered a success. Long-term success will be measured by the amount of native plant cover and diversity.

# 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.

The site is adjacent to Las Positas Road in an area with no side walk or access. There is a small wetland area that drains to Arroyo Burro Creek within the site. Roundup custom is approved for use in aquatic environments. . The cut-stumppaint method will reduce the amount of pesticide drift and impacts to adjacent plants and aquatic resources.

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

Mechanical removal was considered but deemed to impactful (damage to surrounding vegetation, erosion etc) and costly.

Hand removal will be utilized for small seedlings and individuals

Spraying herbicide: the potential for herbicide drift and impacts to adjacent vegetation is too great in these confined locations.

Biocontrol: no control agents are available at this time.

# 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.

Taking no action was deemed infeasible as the pampas grass has continued to spread and show more established clumps in the last few years. Waiting would only require additional herbicide use in the future to remove. Less hazardous chemicals have not been deemed effective on this pest and as stated above mechanical removal of the larger plants would be impactful to the wetland environment, require traffic control on Las Positas and be very costly.

#### Was outside expertise utilized? ☐ No ☒ Yes / Describe

Deputy Agricultural Commissioner and chair of the Santa Barbara County Weed Management Area – Stephanie Stark,

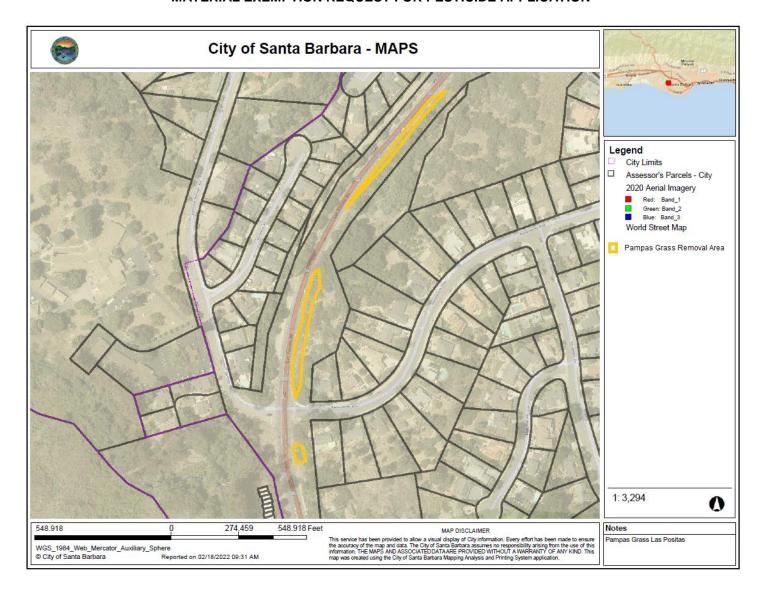
### Describe future plans to prevent using the chemical again.

Quarterly monitoring will occur in 2022-2023 to look for new seedlings and re-sprouts, which will be hand dug up to prevent re-establishment. Followed by annual monitoring.

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Signatures Department IPM Coord	linator	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:						
Completed by the IPM Advisory Committee						
Vote Tally Disposition: ☐ Approved						
If approved follow the attached heat mana	goment proctices					
If approved, follow the attached best management practices.						
Comments:						

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# ROUNDUP CUSTOM® FOR AQUATIC & TERRESTRIAL USE

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

**Product identifier** 

Trade name ROUNDUP CUSTOM® FOR AQUATIC & TERRESTRIAL USE

Product code (UVP) 86738473

**SDS Number** 102000037603

**EPA Registration No.** 524-343

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

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

#### **Hazards Not Otherwise Classified (HNOC)**

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

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**



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Hazardous Component Name CAS-No. Concentration % by weight

Isopropylamine salt of glyphosate 38641-94-0 53.8

#### **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. Call a physician or

poison control center immediately.

**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.

**Treatment** Treatment with atropine and oximes is not indicated. Appropriate

supportive and symptomatic treatment as indicated by the patient's

condition is recommended.

#### **SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media** 

**Suitable** Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

**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 (CO2), Nitrogen oxides (NOx), Oxides of

phosphorus

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.

**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.

Flash point does not flash

Auto-ignition temperature No data available

Lower explosion limit Not applicable

Upper explosion limit Not applicable

**Explosivity** Not explosive

#### **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.

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.

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



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#### 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.

#### 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,



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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 colorless to light yellow or brown

Odour odourless

**Odour Threshold** No data available Нα 4.4 - 4.8 (6.3 %) Melting point/range No data available

**Boiling Point** 

No data available

Flash point does not flash No data available **Flammability 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 Not applicable **Evaporation rate** No data available

Relative vapour density No significant volatility.

Relative density 1.206 (20 °C)

Density 1.21 g/cm<sup>3</sup> (20 °C)

Water solubility completely soluble

Partition coefficient: n-Glyphosate: log Pow: -3.2



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#### octanol/water

Viscosity, dynamic

Viscosity, kinematic

Oxidizing properties

No data available

No data available

No data available

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, Unlined mild steel

**Hazardous decomposition** 

products

No decomposition products expected under normal conditions of use.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** Skin contact, Eye contact, Inhalation

**Immediate Effects** 

Eye Not expected to produce significant adverse effects when

recommended use instructions are followed.

**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** Not expected to produce significant adverse effects when

recommended use instructions are followed.

Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 5,000 mg/kg

Test conducted with a similar formulation.

No deaths



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Acute inhalation toxicity LC50 (Rat) > 4.24 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol. Highest attainable concentration.

No deaths

Test conducted with a similar formulation.

Acute dermal toxicity LD50 (Rabbit) > 5,000 mg/kg

Test conducted with a similar formulation.

No deaths

**Skin corrosion/irritation** No skin irritation (Rabbit)

Test conducted with a similar formulation.

Serious eye damage/eye

irritation

No 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

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

#### Assessment STOT Specific target organ toxicity - repeated exposure

Glyphosate did not cause specific target organ toxicity in experimental animal studies.

#### Assessment mutagenicity

Glyphosate was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

#### Assessment carcinogenicity

Glyphosate was not carcinogenic in lifetime feeding studies in rats and mice. Important comment to IARC Listing:, Our expert opinion is that classification as a carcinogen is not warranted.

### **ACGIH**

None.

**NTP** 

None.

**IARC** 

Isopropylamine salt of glyphosate 38641-94-0 Overall evaluation: 2A

#### **OSHA**

None.

#### Assessment toxicity to reproduction

Glyphosate did not cause reproductive toxicity in a two-generation study in rats.

#### Assessment developmental toxicity



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Glyphosate did not cause developmental toxicity in rats and rabbits.

#### **Aspiration hazard**

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

#### **SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) > 1,000 mg/l

static test; Exposure time: 96 h

Test conducted with a similar formulation.

LC50 (Lepomis macrochirus (Bluegill sunfish)) > 1,000 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)) 930 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** EbC50 (Raphidocelis subcapitata (freshwater green alga)) 72.9 mg/l

static test; Exposure time: 72 h

The value mentioned relates to the active ingredient glyphosate.

NOEC (Raphidocelis subcapitata (freshwater green alga)) 26.4 mg/l

static test; Exposure time: 72 h

The value mentioned relates to the active ingredient glyphosate.

**Biodegradability** Glyphosate:

Not rapidly biodegradable

**Koc** Glyphosate: Koc: 6920

**Bioaccumulation** Glyphosate:

Does not bioaccumulate.

**Mobility in soil** Glyphosate: Immobile in soil

Results of PBT and vPvB assessment

**PBT and vPvB assessment** 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 No further ecological information is available.



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information

**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.

### **SECTION 15: REGULATORY INFORMATION**

EPA Registration No. US Federal Regulations

524-343

**TSCA list** 

Water 7732-18-5



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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!

#### **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



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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 - 0 Flammability - 1 Instability - 1 Others - none

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

Health - 0 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:** 09/25/2020

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