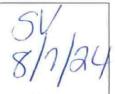
# PETITION FOR VARIANCE BEFORE THE HEARING BOARD OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT



PETITIONER: Universal City Studios LLC	CASE NO: 4935-21
	<b>1</b>
	FACILITY ID: 800202
ACILITY ADDRESS: 100 Universal City Plaza	
the Otata 7ian   Hairman   Otata OA 04600	± ©Ão
ity, State, Zip: Universal City, CA 91608	N 201
TYPE OF VARIANCE REQUESTED (more than o	one box may be checked; see Attachment A, Item 1, before
- 1/ <del></del>	the box may be checked, see Attachment A, item 1, before
selecting)	
☐ INTERIM ☐ SHORT ☐ REGULAR	□ EMERGENCY     □ EX PARTE EMERGENCY
<u>CONTACT</u> : Name, title, company (if different t authorized to receive notices regarding this Petitio	than Petitioner), address, and phone number of persons on (no more than two authorized persons).
Maya Lopez Grasse	Joseph C. Bellas
Alston & Bird LLP	NBC Universal - Environmental Affairs
350 S. Grand Street	100 Universal City Plaza
51st Floor	Building 4250/3rd Floor
Los Angeles, CA Zip 90071	Universal City, CA Zip 91608
Tel 213-576-2526 Ext.	Tel 818-777-2791 Ext.
Fax 213-576-1100	Fax 818-866-0242
E-mail maya.grasse@alston.com	E-mail joe.bellas@nbcuni.com
RECLAIM Permit Yes No  GOOD CAUSE: Explain why your petition was no  Not applicable.	Title V Permit Yes No  ot filed in sufficient time to issue the required public notice.
Briefly describe the type of business and processe	es at your facility.
The Petitioner produces television programs, m Plaza, Universal City, CA.	otion pictures, and theme entertainment at 100 Universal City
Attach copies of the Permit(s) to Construct and RECLAIM or Title V facilities, attach only the re	ubject of this petition (see Attachment A, Item 6, Example #1) d/or Permit(s) to Operate for the subject equipment. For elevant sections of the Facility Permit showing the subject to this petition. You must bring the entire Facility
	ERK'S OFFICE BECOME PUBLIC RECORD]

Equipment/Activity	LIAM YTL	Application/ Permit No.	RECLAIM Device No.	Date Application/Plar Denied (if relevant)*
Machines to create fog special effects for Studios' Halloween Horror Nights event		N/A	N/A	N/A
ch copy of denial letter				
riefly describe the activity or equipment, a diagram may be attached, in addition to			ne operation of y	our business. A schematic
As part of a Halloween-themed event ca generating machines to create special a theme park. The fog machines produce	effects for a lin	mited number	of nights at the	Universal Studios Hollywoo
The fog machines heat a theatrical fog fl a vapor that creates artificial "fog." TI Attachment 3). There is no alternative r will be located within the theme park at 1), although actual locations may need number of fog-generating machines that in 2023. The total amount of fog fluid us (a maximum of 180 gallons total per ever the fog-generating machines are an ecreate a "scary" and "foreboding" Hallow	he fog fluid method to ach the general lo to be adjuste Universal Stu sed per event ent).	is not toxic nieve the desire cations design d during the e udios used suc will not excee	as shown on the dispectated on the attaction attaction at the attaction at attaction at the attaction at the attaction at the attaction at attaction at the attaction at the attaction at the attaction at attaction at the attaction at the attaction at the attaction at attaction at the attaction at the attaction at attaction att	the Safety Data Sheet (so for this event. The machine ched map (See Attachme the effect. This is the san alloween Horror Nights even the most recent years' even Universal Studios needs
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Case No.	Date of Action	Final Compliance Date	Explanation
			Not applicable.
past year? Ye	es No X	If yes, you must attach	y concerning this equipment or activity within to a copy of each notice.  Operation of the subject equipment or activity you should be prepared to present details at the
hearing.  Explain why it is bey		control to comply with the	ne rule(s) and/or permit condition(s). Provide
for its Halloween entertainment exported for the control of the co	Horror Nights event. perience expected from mosphere. In order to machines at such a la Safety Code section 4 Rule and Health and Sa Petitioner. Petitioner's tend Rule 401, which	A dark, fog-obscured at a major movie studio. a achieve the level of obsevel that the fog will existed. The only way Peafety Code were amends current understanding is consistent with inquir	ing special effects that Petitioner needs to creat imosphere is necessary to achieve the "horror The fog machines offer the only effective means of the equired for the "horror" effect, Petition ceed the opacity limitations of District Rule 40 titioner could avoid violation of these rules is ed to provide for temporary activity such as the is that the District does not have any plannaties made to the District in prior years. Much ce is not granted, and Petitioner has no oth
for its Halloween entertainment exp of creating that at must operate the and Health and S both the District F proposed by the rulemaking to am the entertainmen means to ensure  The Halloween F rehearsal/preview 2024 and end in 5. Currently, 43 pights, rehearsal for a maximum oup through the	Horror Nights event. Derience expected from the mosphere. In order to machines at such a least of the event of the event of the event of the early morning of November 10 hours per nights, and one emplification.	A dark, fog-obscured at a major movie studio. I achieve the level of obsevel that the fog will existed the control of the cont	Imposphere is necessary to achieve the "horror The fog machines offer the only effective mean scurity required for the "horror" effect, Petition ceed the opacity limitations of District Rule 40 titioner could avoid violation of these rules is ed to provide for temporary activity such as the is that the District does not have any planned is made to the District in prior years. Much ce is not granted, and Petitioner has no other of the compliance will be achieved on November 20 non-public event nights that consist of the compliance will start each evening at 5:30 p.m. and will remove the machines and will be considered will remove the machines and will be
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Number of employees laid off (if any):1,400 (temporary)  Provide detailed information regarding economic losses, if any, (anticipated business closure, breach of contradship on customers, layoffs, and/or similar impacts).  The effect of denying the variance would be to prevent a lawful business activity. The quality and quantity created by the machines is integral to the entertainment value of this special event. Petitioner's inability to contradict the fog, and thus the "scary" atmosphere the public expects, would severely limit, if not prevent, Petitioner proceeding with a financially successful event. A disappointed public would not create the word of mouth "necessary for financial success, and it may be difficult to convince the public to return for future events.  Failure to grant the variance would cause economic harm to Petitioner, resulting in the loss of \$6-7 mill investment and revenues, and will lead to the loss of over 1,400 temporary jobs.  Can you curtail or terminate operations in lieu of, or in addition to, obtaining a variance? Please explain.  Petitioner has considered curtailment. However, there is no way to curtail use of the machines sufficient comply with Rule 401 or Health and Safety Code section 41701, and there is no feasible means to hostin successful event without utilizing the machines. Petitioner will limit use of the machines to the extent possi Use will be limited to the times and days required to create the necessary effects.  Estimate excess emissions, if any, on a daily basis, including, if applicable, excess opacity (the percentage of total opacity above 20% during the variance period). If the variance will result in no excess emissions, insert "N/A" here and skip to No. 20.	granted?			
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* Column A minus Column B = Column C  Excess Opacity: 80%  Show calculations used to estimate quantities in No. 19, or explain why there will be no excess emissions.  See response to number 21, below.  Explain how you plan to reduce (mitigate) excess emissions during the variance period to the maximum exte feasible, or why reductions are not feasible.  The 100% opacity is a result of the operational design of the fog machines. Even on the lowest setting	Use will be limited to the times and distributed excess emissions, if any, on a total opacity above 20% during the variety	days required to create the near a daily basis, including, if appliance period). If the variance	ecessary effects. elicable, excess opacit e will result in no exce	ty (the percentage of ss emissions, insert
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feasible, or why reductions are not feasible.  The 100% opacity is a result of the operational design of the fog machines. Even on the lowest setting	Estimate excess emissions, if any, on a total opacity above 20% during the vari "N/A" here and skip to No. 20.  Pollutant  Not applicable.  * Column A minus Column B = Column Excess Opacity: 80%  Show calculations used to estimate quarters.	days required to create the new days required to create the new days and daily basis, including, if appliance period). If the variance (A)  Total Estimated Excess Emissions (Ibs/day)	(B) Reduction Due to Mitigation (Ibs/day)	(C)*  Net Emissions Aff Mitigation (Ibs/day
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warm-up and shut down. None of the fog created by the machines will migrate beyond Petitioner's property.

The fog machines are used safely and routinely in the entertainment industry, including in permanent public attractions at Universal Studios and elsewhere. In addition, in response to questions the Hearing Board raised

in 2018, Universal Studios engaged AECOM Technical Services, Inc. ("AECOM") to conduct an assessment of fog fluid emissions during Universal Studios' Halloween event in 2018. That assessment concluded guest exposure to theatrical fog during the event was observed to be and is expected to continue to be at safe airborne levels. The same total volume of fog would be produced at the event in 2024.

The fog created by the fog fluid is not toxic, nor is the fog fluid toxic (and this petition requests relief from the opacity rules, not any rule or regulation related to toxicity). Petitioner will use the same theatrical fog fluid as used in the 2023 and previous years' Halloween Horror Nights in the fog machines—Ultratec "Pro-Beam Long Lasting Fog Fluid." The Safety Data Sheet ("SDS") for the theatrical fog liquid is attached to this petition as Attachment 3. The SDS for the Pro-Beam Long Lasting Fog Fluid indicates the fluid is not known to be a "hazardous chemical" as defined by the Occupational Safety and Health Administration's Hazard Communication Standard. Universal Studios has confirmed with Ultratec, the manufacturer of the Pro-Beam Long Lasting Fog Fluid, that fog machines using the Pro Beam fog fluid should operate below 340°C to prevent degradation of the fog fluid. Universal Studios has contacted the manufacturers of the fog machines that will be used during the Halloween event, and those manufacturers confirmed that their fog machines operate at maximum temperatures below 250°C.

Petitioner will have appropriate warning signs posted at the park entrance and at any attraction where machines are operating. Universal Studios reviewed its warning signs and determined the warning language used in previous years provides a comprehensive warning that can effectively communicate the necessary warning to all event attendees. The warning signs will state: "Warning: persons with medical sensitivity to fog effects should be aware of the park scare zone." Universal Studios will also track any complaints from the event's attendees and report any health-related complaints to the District. Those procedures have been in place each year that Universal Studios has received a variance for its Halloween Horror Nights event.

Universal Studios has followed those procedures in previous years, and will continue to follow those procedures for future Halloween Horror Nights events. Historically, Universal Studios has received very few complaints from the millions of guests who have attended the event over the past decade and has received zero health-related complaints in 2019, 2021, 2022 and 2023. As Universal Studios has done every year that it has received a variance for the Halloween Horror Nights event, Universal Studios will comply with all conditions set forth in the variance. Universal Studios has procedures in place for its on-site medical team to record and report complaints related to the fog emissions during the Halloween Horror Nights event. Universal Studios will also promptly report any complaints related to the emission of fog to the Air District's Inspector and notify any complainants of the Air District's complaint number—1800-CUT-SMOG. Universal Studios will also continue to monitor its fog machines throughout the event to ensure the machines produce fog at appropriate levels.

22. How do you plan to monitor or quantify emission levels from the equipment or activity(s) during the variance period, and to make such records available to the District? Any proposed monitoring does not relieve RECLAIM facilities from applicable missing data requirements.

Petitioner anticipates that it will use up to 180 gallons of liquid fog fluid per event. This is the same maximum amount of fog fluid used in the 2019, 2021, 2022 and 2023 "Halloween Horror Nights" events. Petitioner will keep daily usage records for the liquid and will provide those records to the District upon request.

23. How do you intend to achieve compliance with the rule(s) and/or permit condition(s)? Include a detailed description of any equipment to be installed, modifications or process changes to be made, permit conditions to be amended, etc., dates by which the actions will be completed, and an estimate of total costs.

Petitioner will terminate the event, remove the fog machines, and be in compliance with Rule 401 and Health and Safety Code section 41701.

24. State the date you are requesting the variance to begin: August 13, 2024 ; and the date by which you expect to achieve final compliance: November 5, 2024 .

The variance will not extend beyond one year.

25. List the names of any District personnel with whom facility representatives have had contact concerning this variance petition or any related Notice of Violation or Notice to Comply.

[YOU MAY ATTACH ADDITIONAL PAGES IF NECESSARY]

PAGE 5 OF 6

the undersigned, under penalty of perjury, states that the above petition, including attachments and the itemperein set forth, is true and correct.	Dr. Sarah Rees		Ext	2856	
the petition was completed by someone other than the petitioner, please provide their name and title below the petition was completed by someone other than the petitioner, please provide their name and title below the petition was a signature.  Maya Lopez Grasse Alston & Bird LLP Counsel Title  Company Title  The undersigned, under penalty of perjury, states that the above petition, including attachments and the item of the period of the petitioner, please provide their name and title below to the period of the per			Ext		
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EDIDDICS AND DECISION OF THE HEARING BOARD AND ORDER

# Nature of Business and Location of Facility

Petitioner is in the business of producing television programs, motion pictures, and theme entertainment at 100 Universal City Plaza, Universal City, California.

# Equipment that is the Subject of the Variance Petition

The equipment that will be used to create special fog effects during the "Halloween Horror Nights" event is fog-generating machines that are exempt from the requirement to have a written permit pursuant to Rule 219(d)(16)(M). A fog machine produces an opaque fog that remains close to the ground to create a fog effect. The fog machines heat a theatrical fog fluid consisting of propanediol and triethylene glycols and water, releasing a vapor that creates artificial "fog." Upon release, the vapor cools and forms an aerosol, to create the fog effect.

The special effects fog is widely used throughout the entertainment industry. It is necessary for Petitioner to use the fog as part of "Halloween Horror Nights," an event marketed to teenagers and adults and generally considered to be too intense for small children, in order to create a "scary" Halloween atmosphere that will provide entertainment value and achieve financial success.

## SUMMARY

Petitioner will be in violation of District Rule 401 and California Health and Safety Code Section 41701 during the hours the event is open and will achieve compliance at the conclusion of the special Halloween event, on or before November 2, 2023.

Following are the facts and conclusions supporting the findings set forth in California Health and Safety Code Section 42352 necessary to grant the variance. The Executive Officer did not oppose the granting of the variance.

# FINDINGS OF FACT AND CONCLUSIONS

- (a)(1) The petitioner for a variance is or will be in violation of 41701 or any rule, regulation, or order of the District.
- 1. Petitioner will be in violation of District Rule 401(b)(1)(B) and California Health and Safety Code Section 41701 because the emissions from the special effects required to simulate the appearance of fog will result in opacity exceeding the limits in District Rule

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401(b)(1) and in the California Health and Safety Code Section 41701 for more than three minutes in any one hour.

# (a)(2) Non-compliance with District Rule(s) is due to conditions beyond the reasonable control of the Petitioner.

- Petitioner will create special effects of fog that are necessary to heighten the frightening experience typically associated with Halloween-themed activities and to create a successful event of a caliber expected of a major Hollywood Studio.
- The special effects will take place during up to forty (40) scheduled events 2. between August 24 and October 31, 2023, including one night for a test/level set night and one employee preview night. Additionally, Universal may schedule up to three (3) additional events during that same timeframe. Universal will inform the District immediately if a decision to hold an extra event night is scheduled. The 10-hour events will begin at 5:30 p.m. and end at 3:30 a.m. the following day, including warm-up and shut down. Therefore, each event will technically occur over two days; however, an additional day is not affected where events are held on consecutive nights (e.g. events occurring back to back Friday, Saturday, and Sunday consist of three consecutive two-day events over a four day period). Forty (40) events, including a test/level set night and an employee preview night, are currently scheduled for August 24, September 5, 7, 8, 9, 10, 14, 15, 16, 17, 21, 22, 23, 24, 27, 28, 29, 30, October 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 18, 19, 20, 21, 22, 25, 26, 27, 28, 29, and 31, 2023. Therefore, fog is currently scheduled to be generated on a total of forty (40) nights carrying into the next morning, covering a total number of up to fifty-one (51) days within a seventy (70) day period (see the Table below). Due to potential unexpected rain and/or the popularity of the event during the currently-scheduled event nights, Petitioner may add up to three (3) additional events within this time-frame, beginning August 24 through November 1, which may or may not occur on consecutive nights. Thus, fog may be generated on additional days during the period beginning from August 24 through November 1, which includes the seventy (70) day period.

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Events	Time Beginning	Time Ending
Thursday, 8/24		17.70
(test night)	5:30 p.m.	11:59 p.m.
Friday 8/25	12:00 a.m.	3:30 a.m.
Tuesday, 9/5		11.50
(employee night)	5:30 p.m.	11:59 p.m. 3:30 a.m.
Wednesday, 9/6	12:00 a.m.	5:30 a.m.
Thursday, 9/7	5:30 p.m.	11:59 p.m.
	12:00 a.m.	3:30 a.m.
Friday, 9/8		11:59 p.m.
*	5:30 p.m. 12:00 a.m.	3:30 a.m.
Saturday, 9/9	and the second s	11:59 p.m.
	5:30 p.m.	3:30 a.m.
Sunday, 9/10	12:00 a.m.	11:59 p.m.
	5:30 p.m.	3:30 a.m.
Monday, 9/11	12:00 a.m.	3.30 a.III.
Thursday, 9/14		
Thursday, 7/14	5:30 p.m.	11:59 p.m.
Friday, 9/15	12:00 a.m.	3:30 a.m.
Filday, 3/13	5:30 p.m.	11:59 p.m.
Saturday, 9/16	12:00 a.m.	3:30 a.m.
Saturday, 3/10	5:30 p.m.	11:59 p.m.
Sunday, 9/17	12:00 a.m.	3:30 a.m.
Sunday, 3/17	5:30 p.m.	11:59 p.m.
Monday, 9/18	12:00 a.m.	3:30 a.m.
Thursday, 9/21		11.50
I nursuay, Jimi	5:30 p.m.	11:59 p.m.
Friday, 9/22	12:00 a.m.	3:30 a.m.
riday, num	5:30 p.m.	11:59 p.m.
Saturday, 9/23	12:00 a.m.	3:30 a.m.
Saturday, 9123	5:30 p.m.	11:59 p.m.
Sunday, 9/24	12:00 a.m.	3:30 a.m.
Sulluay, 3/24	5:30 p.m.	11:59 p.m.
Monday, 9/25	12:00 a.m.	3:30 a.m.
Wednesday, 9/27		
Treumesuay, 2121	5:30 p.m.	11:59 a.m.
Thursday, 9/28	12:00 a.m.	3:30 a.m.
1 Hursuay, 7/20	5:30 p.m.	11:59 p.m.
Friday, 9/29	12:00 a.m.	3:30 a.m.
Filday, 5/25	5:30 p.m.	11:59 p.m.

Events	Time Beginning	Time Ending
Saturday, 9/30	12:00 a.m.	3:30 a.m.
Saturday, 5/30	5:30 p.m.	11:59 p.m.
Sunday, 10/1	12:00 a.m.	3:30 a.m.
Sanday, 10/1	5:30 p.m.	11:59 p.m.
Monday, 10/2	12:00 a.m.	3:30 a.m.
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Wednesday, 10/4	5.20 m m	11,50
	5:30 p.m. 12:00 a.m.	11:59 p.m. 3:30 a.m.
Thursday, 10/5	5:30 p.m.	11:59 p.m.
	12:00 a.m.	3:30 a.m.
Friday, 10/6	5:30 p.m.	11:59 p.m.
	12:00 a.m.	3:30 a.m.
Saturday, 10/7	5:30 p.m.	11:59 p.m.
	12:00 a.m.	3:30 a.m.
Sunday, 10/8	5:30 p.m.	11:59 p.m.
	12:00 a.m.	3:30 a.m.
Monday, 10/9	12.00 a.m.	5.50 a.m.
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Wednesday, 10/11	5:30 p.m.	11:59 p.m.
TH. 10/10	12:00 a.m.	3:30 a.m.
Thursday, 10/12	5:30 p.m.	11:59 p.m.
E-13 10/12	12:00 a.m.	3:30 a.m.
Friday, 10/13	5:30 p.m.	11:59 p.m.
S-4	12:00 a.m.	3:30 a.m.
Saturday, 10/14	5:30 p.m.	11:59 p.m.
S 1 10/15	12:00 a.m.	3:30 a.m.
Sunday, 10/15	5:30 p.m.	11:59 p.m.
Monday 10/16	12:00 a.m.	3:30 a.m.
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Wednesday, 10/18	W. T. Sandan	Or a designation of the
cancaday, xv/xv	5:30 p.m.	11:59 p.m.
Thursday, 10/19	12:00 a.m.	3:30 a.m.
	5:30 p.m.	11:59 p.m.
Friday, 10/20	12:00 a.m.	3:30 a.m.
	5:30 p.m.	11:59 p.m.
Saturday, 10/21	12:00 a.m.	3:30 a.m.
	5:30 p.m.	11:59 p.m.
Sunday, 10/22	12:00 a.m.	3:30 a.m.
	5:30 p.m.	11:59 p.m.
Monday 10/23	12:00 a.m.	3:30 a.m.
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Wednesday, 10/25	5.30 n m	11.59 p m
Wednesday, 10/25 Thursday, 10/26	5:30 p.m. 12:00 a.m.	11:59 p.m. 3:30 a.m.

Events	Time Beginning	Time Ending
	12:00 a.m.	3:30 a.m.
Friday, 10/27	5:30 p.m.	11:59 p.m.
	12:00 a.m.	3:30 a.m.
Saturday, 10/28	5:30 p.m.	11:59 p.m.
2 10/20	12:00 a.m.	3:30 a.m.
Sunday, 10/29	5:30 p.m.	11:59 p.m.
10/00	12:00 a.m.	3:30 a.m.
Monday, 10/30		
7 10/01		
Tuesday, 10/31	5:30 p.m.	11:59 p.m.
201 1 1 1111	12:00 a.m.	3:30 a.m.
Wednesday, 11/1	TWO IS SOUTHERN SPECIAL STATE	ALBUM KANDEY S

- 3. Universal anticipates that it will achieve final compliance on or before November 2, 2023, the day after the final event date that is currently scheduled completes on the morning of November 1, 2023. Universal will inform the District immediately if a decision to hold an extra event night is scheduled.
- 4. The exposure to opacity exceedances will be short in duration. Opacity exceedances will occur at attractions contained in the area shown on the attached map (Petition Attachment 1) and areas added in order to achieve the necessary effects.
- 5. Theatrical fog-producing products are widely used in the entertainment industry. The Safety Data Sheet ("SDS") for the Pro Beam Long Lasting Fog Fluid to be used in the fog machines for this event (Petition Attachment 3) indicates that the product is not known to be a "Hazardous Chemical" as defined by the Occupational Safety and Health Administration's ("OSHA") Hazard Communication Standard. Universal Studios understands that the Pro Beam Long Lasting Fog Fluid and the fog machines that will be used, are still widely used and considered safe in the industry. The short duration of exposure at Petitioner's events and minimal prior complaints support the conclusion that negative effects are unlikely to occur during the variance period. Universal Studios estimates it will use the same amount of fog fluid per event day that it has used in previous years for the Halloween event.
- Universal Studios first began holding the Halloween event in the early 2000s,
   and it has been held annually since at least 2011 (except during the pandemic in 2020). For

 each year that Universal has received the variance for the Halloween event, Universal has followed the conditions in its variance. Those conditions include procedures for Universal Studios to post warning signs for event attendees with a medical sensitivity to fog effects, track any complaints from the event's attendees, report any health-related complaints to the District, and provide any attendees who complain with the District's complaint number—1-800-CUT-SMOG.

- 7. Historically, Universal Studios has received very few complaints during the event. Specifically, Universal Studios received very few complaints from the millions of guests who attended the event over the past five years. The few complaints related to the fog have been similar in nature for each year Universal Studios has held the event. Universal received three complaints from attendees related to the fog generated during the Halloween event in 2014, one complaint in 2015, six complaints in 2016, two complaints in 2017, and one complaint in 2018 (and zero complaints in 2019, 2021 and 2022; the event was not held in 2020 due to the pandemic). After each of those complaints, Universal promptly verified its machines were not overproducing fog so attendees could proceed through the event safely, and Universal Studios notified the Air District of those complaints. Universal Studios also promptly notified each complainant of the District's 1-800-CUT-SMOG complaint number.
- 8. Before granting the variance for the Halloween event in 2017, the Hearing Board held a hearing on August 24, 2017, to consider Universal Studios' testimony and any public testimony related to the variance request. Mr. Joseph C. Bellas, Vice President of Corporate Environmental Affairs, and Ms. Aimee Kool, Senior Director of Environmental Health and Safety for Universal Studios Hollywood, testified on behalf of Universal Studios during that hearing. No member of the public testified during that hearing. During that hearing, the Hearing Board discussed the conditions in Universal Studios' variance, including the requirements to post warning signs and report complaints, before unanimously granting Universal Studios' variance. During the Halloween event in 2017, Universal Studios received two attendee complaints related to the fog, amongst the thousands of attendees that attended the event. Those complaints were reported to the District. All complainants were also notified

of the District's complaint number 1-800-CUT-SMOG. Throughout the event in 2017, Universal Studios took precautions to ensure its fog machines operated at appropriate levels, were positioned in appropriate locations, and were not overproducing fog.

- 9. The Hearing Board granted the variance for the event in 2018 after the Hearing Board considered Universal Studios' variance petition on consent at its hearing on September 4, 2018. No member of the public testified during that hearing. During the Halloween Horror Nights event in 2018, Universal Studios received only one complaint related to the fog amongst the thousands of guests that attended the event last year. That guest was notified of the District's complaint number—1-800-CUT-SMOG. Throughout the event in 2018, Universal Studios took precautions to ensure its fog machines operated at appropriate levels, were positioned in appropriate locations, and were not overproducing fog. Universal Studios had a technician onsite every night of the event to monitor the fog machines and is not aware of any customer receiving medical attention due to the fog machines during the event.
- 10. The Hearing Board granted the variance for the event in 2019 after the Hearing Board considered Universal Studios' variance petition on consent at its hearing on August 28, 2019. No member of the public testified during that hearing. Universal Studios did not receive any fog-related complaints during the event held in 2019. As it did in previous years, Universal Studios monitored the fog machines throughout the event to ensure they operated at appropriate levels, were positioned in appropriate locations, and were not overproducing fog.
- 11. In 2020, Universal Studios did not hold the Halloween Horror Nights event and therefore did not petition for a short variance due to the park's closures during the coronavirus pandemic.
- 12. The Hearing Board granted the variance for the event in 2021 after the Hearing Board considered Universal Studios' variance petition on consent at its hearing on August 19, 2021. No member of the public testified during that hearing. Universal Studios did not receive any fog-related complaints during the event held in 2021.
- The Hearing Board granted the variance for the event in 2022 after the Hearing Board considered Universal Studios' variance petition on consent at its hearing on August 24,

- 14. Other than those complaints received from 2014 through 2018, Universal has not received any other fog-related or health-related complaints through its years of operating the Halloween event. Universal Studios is not aware of any attendee receiving medical attention due to the fog machines during the event. As Universal has done every year it has received a variance for the Halloween event, Universal will comply with all conditions in the variance, including posting warning signs, promptly reporting any complaints related to the emissions of fog to the Air District's Inspector, and notifying any complainants of the Air District's complaint number—1800-CUT-SMOG. Universal Studios will also continue to monitor its fog machines throughout the event to ensure the machines produce fog at appropriate levels. Universal Studios has a technician onsite every night of the event to monitor the levels and positioning of the fog machines.
- 15. Universal Studios understands that the fog machines and fog fluid used by Universal Studios in the past and that will be used in this year's event are widely and safely used in the entertainment industry to achieve the desired scary effect during its events. In addition, Universal Studios has confirmed with Ultratec, the manufacturer of the Pro-Beam Long Lasting Fog Fluid, that fog machines using the Pro Beam fog fluid should operate below 340°C to prevent degradation of the fog fluid. Universal Studios contacted the manufacturers of the fog machines that will be used during the Halloween event, and those manufacturers confirmed that their fog machines operate at maximum temperatures below 250°C.
- 16. Petitioner further consulted with the District in 2022 and 2023 regarding the possibility of a rule amendment and/or rulemaking that would establish a permit process for activities like those proposed by Petitioner. The District ultimately communicated that there is no rulemaking currently underway to change Rule 401, and staff continues to believe a variance is the appropriate means to facilitating Petitioner's event at this point in time.
- 17. Petitioner has used these special fog effects for its past Halloween events held almost annually since 2000, most recently in 2022, and cannot achieve the necessary

atmosphere without these special effects. Therefore, compliance with the aforementioned District rules will be beyond Petitioner's reasonable control during the duration of "Halloween Horror Nights" events.

# (a)(2) Requiring compliance would result in either (A) an arbitrary or unreasonable taking of property, or (B) the practical closing and elimination of a lawful business.

- 18. Failure to grant the variance would limit or preclude Petitioner's ability to create the frightening and foreboding atmosphere that is critical to achieving a high-quality, financially successful event, and would cause economic injury to Petitioner of \$6-7 million and result in the loss of over 1,400 jobs if the event is not held.
- (a)(3) The closing or taking would be without a corresponding benefit in reducing air contaminants.
- 19. The excess opacity emissions during the variance period may reach up to 100 percent in some locations close to the machines but will dissipate rapidly. Generally, the expected excess emissions would be 80 percent during the event hours.
- 20. Petitioner will use a mixture of food-grade propanediol and triethylene glycols and water in the fog machines in accordance with permits and approvals issued by the Los Angeles County Fire Department and the Los Angeles County Department of Building and Safety.
- 21. The opacity exceedances will occur in a limited area on the park property as shown on the map attached hereto (Petition Attachment 1) and will not migrate off-site. The opacity exceedances will occur at the specific sites listed on Attachment 1 and areas added in order to achieve the necessary affects. Event attendees will participate in the event on a voluntary basis and will only be exposed to any opacity exceedances for the short duration during which event attendees choose to participate in the event. Areas between these sites will not be affected.
- 22. In response to comments from the Hearing Board for its variance petition for the Halloween event in 2018, Universal Studios engaged AECOM Technical Services ("AECOM") to conduct an industrial hygiene assessment during Universal Studios'

Halloween Horror Nights even in 2018 to evaluate employee and guest exposures to the theatrical fog during the event. That monitoring concluded employee and guest exposures to the theatrical fog during the event were and are expected to continue to be at safe airborne levels. The level of fog produced during the 2023 event will be comparable to those levels produced during the 2018, 2019, 2021 and 2022 events. (See Declaration of Joe Bellas.)

23. Exposure to fog emissions by any event participant would be on a voluntary basis and would be very limited. Typically, event guests spend more time outside of the event areas with fog than they do inside those event areas with fog. In addition, the opacity exceedances will occur in a limited area on the park property and will not migrate off-site. Preventing the event, therefore, would be without a corresponding benefit in reducing air contaminants.

# (a)(4) The Petitioner has given consideration to curtailing operations of the source in lieu of obtaining a variance.

24. Petitioner considered curtailment in lieu of obtaining a variance and will in fact limit the use of fog to the minimum required to create the necessary effects. However, the fog is necessary in order to make the event an entertainment and financial success. Petitioner has researched other options and it is impractical to generate the desired "fog" effect without using a theatrical fog product.

# (a)(5) During the period the variance is in effect, the petitioner will reduce excess emissions to the maximum extent feasible.

- During the period the variance is in effect, Petitioner will operate the equipment at the minimum level necessary to create the required special effects and has agreed to comply with the mitigation measures set forth in this variance order.
- 2. Petitioner will operate up to 82 machines at the approximate locations indicated in Attachment 1 to the Petition. Petitioner may reallocate the machines among these or other sites within the event to create the desired effect. The fog machines will only be operated for a maximum of ten (10) hours per event, including machine warm-up time, shut down, and operating hours of the event. Fog will generally be emitted at the ground level, which can be

defined generally as within two feet of the ground. Universal Studios will post clear, visible warning signs at all entrances to the park and at every attraction stating: "Warning: persons with medical sensitivity to fog effects should be aware of the park scare zone." Universal Studios has determined that warning language provides a comprehensive warning that can effectively communicate the necessary warning to all event attendees. Additionally, event attendees will participate in the event on a voluntary basis and will only be exposed to any opacity exceedances for the short duration during which attendees choose to participate in the event. Event attendees also have many platforms through which they may report complaints related to the fog to Universal Studios in real time, including through an online general message system, a smartphone application, by social media outlets, by telephone, or in person to any employee or at a customer service desk.

- (a)(6) During the period the variance is in effect, the Petitioner will monitor or otherwise quantify emission levels from the source, if requested to do so by the District, and report these emission levels to the District pursuant to a schedule established by the District.
- During the period the variance is in effect, Petitioner has agreed to comply with the conditions set forth in this variance order.
- Operation under the order is not expected to result in a violation of California Health and Safety Code Section 41700.
- The fog is generated from the machines are not expected to travel beyond the theme park's boundaries so as to create a nuisance in violation of California Health and Safety Code Section 41700.

# ORDER

THEREFORE, good cause appearing, the Hearing Board orders as follows:

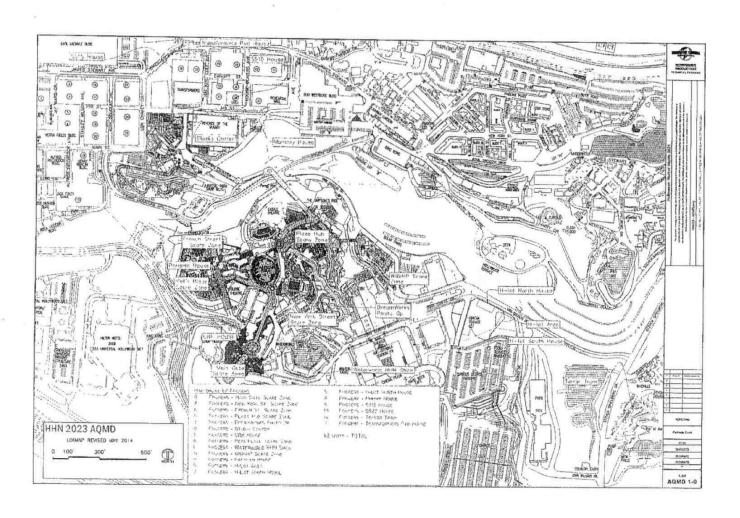
A. Petitioner is granted a short variance from District Rule 401(b)(1)(B) and California Health and Safety Code Section 41701 for the use of up to 82 fog-generating machines to create special effects for its "Halloween Horror Nights" special event at Universal Studios Hollywood for forty (40) scheduled and three (3) potential additional events in the timeframe beginning on August 24 and concluding on or before November 1, 2023.

27

28

The final compliance date will be the morning after the conclusion of the last potential event date, on November 2, 2023.

- B. The variance granted herein is subject to the following conditions:
  - 1. Petitioner shall limit the generation and emission of special effects fog reaching up to 100% opacity to the following periods (as listed in the Petition): A maximum of a 70-day timeframe, during the period commencing on August 24 and ending on or before November 1, 2023. Within that 70-day timeframe, forty (40) event nights, including one test/level set night and one employee preview night, will take place within the period commencing on August 24 and ending on November 1, 2023, starting at 5:30 p.m. and ending no later than 3:30 a.m. the following day. Those forty (40) events are scheduled to take place on August 24, September 5, 7, 8, 9, 10, 14, 15, 16, 17, 21, 22, 23, 24, 27, 28, 29, 30, October 1, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 18, 19, 20, 21, 22, 25, 26, 27, 28, 29, and 31, 2023. Universal may schedule up to three (3) additional events during that same 70-day timeframe. Petitioner shall only emit fog under this variance from the 82 generating machines identified on the attached site map (Attachment 1 to the variance Petition), although the machines may be reallocated among various sites to create the necessary effects.
  - No opacity beyond the limits of District Rule 401 shall be permitted to travel beyond the perimeter of the Petitioner's property.
  - Petitioner shall not use more than a total of 180 gallons of fog fluid per 10-hour event. The fog fluid must be food grade Pro Beam Long Lasting Fog Fluid manufactured by Ultratec Special Effects.
  - 4. Petitioner shall keep records of the amount of fog fluid used on each date. Said records shall be made available to the District upon request. Petitioner shall submit a written summary to the District at the expiration of the subject variance.
  - Petitioner shall immediately respond to any complaints received and shall promptly notify the District (Telephone: 1-800-CUT-SMOG) of any complaints,



# PROOF OF SERVICE BY E-MAIL

Case No. 4935-20

I, the undersigned, declare that I am employed in the County of Los Angeles, State of California. I am over the age of eighteen years and am not a party to the within action. My business address is 21865 Copley Drive, Diamond Bar, California 91765.

CALIFORNIA AIR RESOURCES BOARD variance@arb.ca.gov	AIR ENFORCEMENT OFFICE  aeo_r9@epa.gov  and  US ENVIRONMENTAL PROTECTION  AGENCY REGION IX  ATTN: ROSHNI BRAHMBHATT  brahmbhatt.roshni@epa.gov
Joseph C. Bellas, NBC Universal -	Maya Lopez Grasse
Environmental Affairs	ALSTON & BIRD LLP
Joe.bellas@nbcuni.com	Maya.grasse@alston.com

By E-MAIL - By transmitting a true pdf copy of the Findings and Decision before the Hearing Board by e-mail transmission from arothschild@aqmd.gov to each of the interested party at the e-mail addresses set forth above. Said transmission(s) were completed on the aforesaid date at the time stated on declarant's email transmission record.

I declare under penalty of perjury under the laws of the **State of California** that the foregoing is true and correct.

Executed on August 22, 2023 at Diamond Bar, California.

Altheresa/Rothschild Deputy Clerk Transcriber

Clerk of the Boards

# SAFETY DATA SHEET

4	Droduct	and	Company	Identification
١.	Product	anu	Company	identification

Product identifier

Pro Beam Long Lasting Fog Fluid

Other means of identification

Not available

Recommended use

Theatrical Fog

Recommended restrictions

None known

Manufacturer information

**Ultratec Special Effects** 1960 Blue Heron Drive London, ON N6H 5L9 CA Phone: 1 -519-659-7972

Toll Free Phone: 1-800-388-0617

Emergency Number: ChemTel: 1-800-255-3924

Supplier

See above.

#### 2. Hazards Identification

Physical hazards

Not classified. Not classified

Health hazards **Environmental hazards** 

Not classified.

WHMIS 2015 defined hazards

Not classified

Label elements

Hazard symbol

None.

Signal word

Hazard statement

The mixture does not meet the criteria for classification.

Precautionary statement

Prevention

Observe good industrial hygiene practices.

Response

Wash hands after handling.

Storage

Store away from incompatible materials.

Disposal

Dispose of waste and residues in accordance with local authority requirements.

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

None known None known

WHMIS 2015: Physical Hazard(s) not otherwise

classified (PHNOC)

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

Not applicable.

# 3. Composition/Information on Ingredients

#### Mixture

Chemical name	Common name and synonyms	CAS number	%
1,2-Propanediol		57-55-6	15 - 40*
Triethylene glycol		112-27-6	15 - 40*

#### Composition comments

US GHS: The exact percentage (concentration) of composition has been withheld as a trade

secret in accordance with paragraph (i) of §1910.1200.

\*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a

trade secret.

#### 4. First Aid Measures

Inhalation Skin contact

#12974

If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Flush with cool water. Wash with soap and water. Obtain medical attention if irritation develops or

persists.

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation develops or persists. Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain Ingestion medical attention. Never give anything by mouth if victim is unconscious or is convulsing. Most important Direct contact with eyes may cause temporary irritation. symptoms/effects, acute and delayed Indication of immediate Treat symptomatically. medical attention and special treatment needed If you feel unwell, seek medical advice (show the label where possible). Ensure that medical General information personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children. 5. Fire Fighting Measures Suitable extinguishing media Alcohol foam. Carbon dioxide. Water Fog. Dry chemical. Unsuitable extinguishing Not available. media Specific hazards arising from Firefighters should wear a self-contained breathing apparatus. the chemical Special protective equipment Firefighters should wear full protective clothing including self-contained breathing apparatus. and precautions for firefighters Cool containers with flooding quantities of water until well after fire is out. Fire-fighting equipment/instructions Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. General fire hazards No unusual fire or explosion hazards noted. Hazardous combustion May include and are not limited to: Oxides of carbon. products 6. Accidental Release Measures Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of Personal precautions, protective equipment and spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS. emergency procedures Methods and materials for Large Spills: Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth containment and cleaning up and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. **Environmental precautions** 7. Handling and Storage Avoid prolonged exposure. Precautions for safe handling Use good industrial hygiene practices in handling this material. When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities

Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

#### 8. Exposure Controls/Personal Protection

#### Occupational exposure limits

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	Form
1,2-Propanediol (CAS 57-55-6)	TWA	155 mg/m3	Vapor and aerosol.
		10 mg/m3	Aerosol.
		50 ppm	Vapor and aerosol.

Components	Туре	Value	Form	
1,2-Propanediol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.	
Triethylene glycol (CAS 112-27-6)	TWA	10 mg/m3	Particulate.	
iological limit values	No biological exposure limits noted for	the ingredient(s).		
xposure guidelines	Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.			
ppropriate engineering ontrols	General ventilation normally adequate			
ndividual protection measures, s	such as personal protective equipme	ent		
Eye/face protection	Safety glasses recommended.			
Skin protection				
Hand protection	If there is constant skin contact, rubbe	r gloves are recommended.		
Other	As required by employer code.			
Respiratory protection	Not normally required if good ventilation is maintained. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.			
Thermal hazards	Not available.			
General hygiene considerations	Wash hands before breaks and imme good industrial hygiene and safety pra			
	9. Physical and Chemic	al Properties		
Appearance	Clear			
Physical state	Liquid.			
orm	Liquid			
Color	Colorless			
Odor	no odour			
Odor threshold	Not available.			
Н	Neutral			
Melting point/freezing point	Not available.			
nitial boiling point and boiling ange	Not available.			
our point	Not available.			
Specific gravity	Not available.			
Partition coefficient n-octanol/water)	Not available.			
lash point	> 249.8 °F (> 121.0 °C) Tag Closed (	Cup		
Evaporation rate	Not available.			
lammability (solid, gas)	Not applicable.			
Jpper/lower flammability or expl	osive limits			
Flammability limit - lower (%)	Not available.			
Flammability limit - upper (%)	Not available.			
Explosive limit - lower (%)	Not available.			
Explosive limit - upper (%)	Not available.			
/apor pressure	Not available.			
/apor density	> 1 (Air = 1)			
Relative density	1.05			
Solubility(ies)	Complete			
Auto-ignition temperature	Not available.			
Decomposition temperature	Not available.			
Viscosity	Not available.			
	10. Stability and F	leactivity		
Reactivity	May react with incompatible materials			

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability

Stable.

Conditions to avoid

Avoid temperatures exceeding the flash point. Do not mix with other chemicals.

Incompatible materials

Acids. Oxidizers.

Hazardous decomposition products

May include and are not limited to: Oxides of carbon.

## 11. Toxicological Information

Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Ingestion

May cause stomach distress, nausea or vomiting.

Inhalation

No adverse effects due to inhalation are expected.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

No adverse effects due to eye contact are expected.

Symptoms related to the physical, chemical and toxicological characteristics There are no hazards associated with this product in normal use.

Information on toxicological effects

Acute toxicity

Acute toxicity		
Components	Species	Test Results
1,2-Propanediol (CAS 57-55-6)		
Acute		
Dermal	5.11.0	
LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA
		20800 mg/kg, Millipore
Inhalation LC50	Dalla	. 047040
	Rabbit	> 317042 mg/m3, 2 Hours, ECHA
<i>Oral</i> LD50	Dog	10 alka HCDD
2000		19 g/kg, HSDB
	Guinea pig	19700 mg/kg, ECHA
		18.4 g/kg, HSDB
	Mouse	24900 mg/kg, ECHA
		23900 mg/kg, HSDB
		23.9 g/kg, HSDB
	Rabbit	22.8 g/kg, CCOHS
		18 g/kg, HSDB
	Rat	19.4 - 36 g/kg, Millipore
		22000 mg/kg, ECHA
		21 g/kg, CCOHS
Triethylene glycol (CAS 112-27-6)		
Acute		
Dermal		
LD50	Rabbit	22600 mg/kg, HSDB
		22460 mg/kg
		16 ml/kg, 24 Hours, ECHA
	Rat	> 5000 mg/kg, Millipore
Inhalation		
LC50	Rat	> 5.2 mg/l/4h, Millipore
		> 3.9 mg/L, 4 Hours, HSDB
Oral		
LD50	Guinea pig	7900 mg/kg, HSDB
	Mouse	18500 mg/kg, HSDB

Components	Species		Test Results
	Rabbit		9500 mg/kg, HSDB
	Rat		> 2000 mg/kg, ECHA
		3	> 16 ml/kg, ECHA
			17000 mg/kg, HSDB
Skin corrosion/irritation	Not expected	to be a primary skin irritant. Prolonged sk	in contact may cause temporary irritation.
Exposure minutes	Not available.		
Erythema value	Not available.		
Oedema value	Not available.		
Serious eye damage/eye irritation	Direct contact	with eyes may cause temporary irritation	
Corneal opacity value	Not available.		
Iris lesion value	Not available.		
Conjunctival reddening value	Not available.		
Conjunctival oedema value	Not available.		
Recover days	Not available.		
Respiratory or skin sensitization	n		
Respiratory sensitization	Not available.		
Skin sensitization	This product i	s not expected to cause skin sensitization	
Mutagenicity	Non-hazardo	us by WHMIS/OSHA criteria.	
Carcinogenicity	Non-hazardo	us by WHMIS/OSHA criteria.	
	ulated Substan	ces (29 CFR 1910.1001-1050)	
Reproductive toxicity	Non-hazardo	us by WHMIS/OSHA criteria.	
Teratogenicity	Non-hazardo	us by WHMIS/OSHA criteria.	
Specific target organ toxicity - single exposure	Not classified		
Specific target organ toxicity - repeated exposure	Not classified		
Aspiration hazard	Not classified		
Chronic effects	Non-hazardo	us by WHMIS/OSHA criteria.	
		12. Ecological Information	
Ecotoxicity		s not classified as environmentally hazard t large or frequent spills can have a harm	ous. However, this does not exclude the ful or damaging effect on the environment.
Ecotoxicological data Components		Species	Test Results
1,2-Propanediol (CAS 57-55-6)			
Crustacea	EC50	Daphnia	10000 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/L, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas	s) 710 mg/L 96 hours
Triethylene glycol (CAS 112-27-6)		V map in a promise pro	,,
Crustacea	EC50	Daphnia	42426 mg/L, 48 Hours
Aquatic		33.4. 2. 25. 4.5.	
Crustacea	EC50	Water flea (Daphnia magna)	48.9 - 56 mg/L, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	> 10000 mg/L, 96 hours
Persistence and degradability	No data is av	ailable on the degradability of this product	
Bioaccumulative potential	No data avail	able.	
Mobility in soil	No data avail	able.	
Mobility in general	Not available.	Not available.	
Other adverse effects		erse environmental effects (e.g. ozone de ocrine disruption, global warming potentia	

#### 13. Disposal Considerations

Disposal instructions Review federal, state/provincial, and local government requirements prior to disposal. Collect and

reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

### 14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification

Classification Method: Classified as per Part 2, Sections 2.1 - 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

#### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

## 15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

**Precursor Control Regulations** 

Not regulated.

WHMIS 2015 Exemptions

Not applicable

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US state regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - Minnesota Haz Subs: Listed substance

1,2-Propanediol (CAS 57-55-6)

Listed.

Page: 6 of 7

#12974

Triethylene glycol (CAS 112-27-6)

Listed.

US - New Jersey RTK - Substances: Listed substance

1,2-Propanediol (CAS 57-55-6)

US - Texas Effects Screening Levels: Listed substance

1,2-Propanediol (CAS 57-55-6) Triethylene glycol (CAS 112-27-6) Listed. Listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

US. Pennsylvania Worker and Community Right-to-Know Law

1,2-Propanediol (CAS 57-55-6) Triethylene glycol (CAS 112-27-6)

US. Rhode Island RTK

1,2-Propanediol (CAS 57-55-6) Triethylene glycol (CAS 112-27-6)

#### US. California Proposition 65

Not Listed.

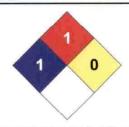
#### Inventory status

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

## 16. Other Information

LEGEND		
Severe	4	
Serious	3	
Moderate	2	
Slight	1	
Minimal	0	





Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date

28-March-2019

Version #

01

Effective date

28-March-2019

Prepared by

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)