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APPLYING OIL SPILL EATER II (OSE II) TO PUDDLE  
GASOLINE OR DISIEL TO DETERMINE THE TIME TO  
RENDER THE FUELS NON-FLAMMABLE

OSEI Corporation, along with a Texas Fire Chief, Tested OSE II for 16 hours to determine the non-flammable point of gasoline and diesel once OIL SPILL EATER II (OSE II) has been applied.

There were different size metal pans used in these determinations. The first pan was round with a depth of 6 inches. The other pans were 4' x 3' x 1", and 3' x 2' x 1" respectively.

A surface spill on pavement was also carried out to emulate what could occur at a vehicle accident scene. For flat spills on pavement, 3 minutes after applying OSE II and water, you cannot ignite the fuel.

Gasoline and diesel were placed in the pans at separate times at varying depths. OSE II diluted at varying dilution rates was also added to the pans with gasoline, and then diesel. An Acetylene Torch with a full force flame was held on the fuel which OSE II had been applied for 60 seconds. If the fuel failed to light – then this was determined to be the non-flammable point. This was an extreme test since during a spill event the availability of this type of heat/flame source is unlikely.

The non-flammable point of both gasoline and diesel required more time as the fuel depth was increased. However, OSE II was able to render fuel non-flammable point was cut off at 8 inches. However, contractors and fire chiefs have agreed that unless there is eminent danger, that any depth greater than 4 inches, a Vacuum-Truck would be called out, and then OSE II used to finish the cleanup of the fuel.

Keep in mind OSE II causes hydraulic lift, so OSE II will pull the fuel/oil out of the pavement so there is no free product residue that rainwater could wash into surrounding waters contaminating those waters.

OSE II also cleans up all the fuel so the pavement is no longer slick, which potentially could cause further accidents.

OSE II was also applied to gasoline and diesel that had been poured directly onto the pavement, and allowed to spread naturally. In these spill scenarios OSE II mixed 50 to 1 with water will render the fuel non-flammable in less than 5 minutes.

In most situations after fuel is rendered non-flammable, wait approximately 20 to 30 minutes and you can wash the effluent away without causing an adverse affect to the environment.

The Chart for both gasoline and diesel was established. The diesel will correlate to jp4, jp5, jp8, and Jet A.

These charts can be used, especially in emergencies, to determine how much OSE II and water is needed for the particular spilled fuel. The chart will also tell you based on the depth and the amount of fuel spilled, the time needed for the fuel to be rendered non-flammable.

OSE II will protect responders from potential fire problems and at the same time detoxify the fuel, so the effluent can be washed away. This will completely clean the pavement and protect the environment from the effluent wash down.

Page 3

The fire charts can be laminated so they can be carried on board emergency response vehicles. The charts are on the following pages.

**OSE II is the first, and only response required to protect responders and the environment.**

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# Oil Spill Eater International

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POOLING SPILLS 1/4" OR Deeper		Chart to Make Gasoline Non-Flammable										*FLAT SPILLS			
OSE II	Water (Gallons)	Sq. Ft.	5	10	25	100	200	400	800	1200	1600	2000	Sq. Ft.	OSE II	Water (Gallons)
		Gal. Fuel											Gal. Fuel	2% or	
9 oz.	3	1	1/3	*Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	1	3 oz.	2
45 oz.	15	5	1 1/2	1	1/3	Flat	Flat	Flat	Flat	Flat	Flat	Flat	5	15 oz.	10
1 g - 97 oz.	75	25	8	4	1 1/2	1/2	Flat	Flat	Flat	Flat	Flat	Flat	25	75 oz.	50
3 g - 96 oz.	150	50	***VAC	8	3	1	1/2	Flat	Flat	Flat	Flat	Flat	50	1 g - 28 oz.	100
7 g - 4 oz.	300	100	VAC	VAC	8	1 1/2	1	1/2	Flat	Flat	Flat	Flat	100	2 g - 5 oz.	200
14 g - 8 oz.	600	200	VAC	VAC	VAC	3	1 1/2	1	1/2	1/4	Flat	Flat	200	4 g - 112	400
35 g - 20 oz	1500	500	VAC	VAC	VAC	8	4	2	1	3/4	1/2	1/2	500	12 g - 24	1000
52 g - 76 oz	2250	750	VAC	VAC	VAC	VAC	6	3	1 1/2	1	3/4	1/2	750	16 g - 74	1500

\* FLAT is any depth of fuel less than 1/4".

\*\*\* VAC - After you vacuum fuel, apply 3 oz. of OSE II and 2 gallons of water for every 100 sq.ft. of surface area.

- Pooled spills can be treated to reduce the flammability and then vacuumed.

M = Minutes		TIME CHART										Note: The non-flammable times were determined by using a butane road torch being held in one spot for more than 20 seconds. Thus, these times are very conservative for accident scenes.
		Sq. Ft.	5	10	25	100	200	400	800	1200	1600	2000
Gal. Fuel	1	38 M	6 M	6 M	6 M	6 M	6 M	6 M	6 M	6 M	6 M	6 M
5	5	74 M	57 M	30 M	6 M	6 M	6 M	6 M	6 M	6 M	6 M	6 M
25	25	101 M	101 M	74 M	23 M	6 M	6 M	6 M	6 M	6 M	6 M	6 M
50	50	VAC	101 M	101 M	57 M	35 M	6 M	6 M	6 M	6 M	6 M	6 M
100	100	VAC	VAC	101 M	74 M	57 M	35 M	6 M	6 M	6 M	6 M	6 M
200	200	VAC	VAC	VAC	101 M	74 M	57 M	25 M	23 M	6 M	6 M	6 M
500	500	VAC	VAC	VAC	101 M	101 M	87 M	57 M	46 M	23 M	23 M	23 M
750	750	VAC	VAC	VAC	VAC	101 M	101 M	74 M	57 M	46 M	23 M	23 M

A field test should be performed if flammability is an issue.