Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 08/11/2014

Revis	ion date: 08/11	/2014	:	Vers
SECTION 1: Identification of the s	ubstance	/mixture and of the comp	any/undertaking	
1.1. Product identifier				
Product form	: Mixtu	re		
Trade name	: NGEI	N SOLO SHOT FUEL NHANCER	8 6 FL.OZ.	
Product code	: 7101:	2		
1.2. Relevant identified uses of the s	ubstance or	mixture and uses advised agai	inst	
Use of the substance/mixture		Injector Cleaner		
1.3. Details of the supplier of the safe	etv data she	et		
The Next Generation Manufacturing, LLC				
423 W. WESLEY Wheaton, IL 60187 T 844-643-6776				
1.4. Emergency telephone number				
Emergency number	: CHEI	MTREC 24 Hour 1-800-424-9300		
SECTION 2: Hazards identification	า			
2.1. Classification of the substance of				
Classification (GHS-US)				
Flam. Liq. 4 H227				
Carc. 2 H351				
Asp. Tox. 1 H304				
Full text of H-phrases: see section 16				
2.2. Label elements				
GHS-US labeling				
Hazard pictograms (GHS-US)		^		
Signal word (GHS-US)	: Dang	GHS08 er		
Hazard statements (GHS-US)	H304	<ul> <li>Combustible liquid</li> <li>May be fatal if swallowed and e</li> <li>Suspected of causing cancer</li> </ul>	enters airways	
Precautionary statements (GHS-US)	P202 P210 P301 P308 P308 P308 P301 P370 P403 P405 P501	<ul> <li>Obtain special instructions</li> <li>Do not handle until all safety pro- Keep away from heat,sparks.op</li> <li>Wear protective gloves,protective</li> <li>P310 - If swallowed: Immediatel</li> <li>P313 - If exposed or concerned:</li> <li>Do NOT induce vomiting</li> <li>P378 - In case of fire: See Sectii</li> <li>P235 - Store in a well-ventilated</li> <li>Store locked up</li> <li>Dispose of contents/container to regional, national, international regional</li> </ul>	pen flames, hot surface ve clothing, eye protect ly call a poison contro : Get medical advice/a ion 5.1 Extinguishing I place. Keep cool o appropriate waste d	es No smoking stion,face protection I center, doctor,physician, attention Media
2.3. Other hazards				
Other hazards not contributing to the classification	: None	under normal conditions.		
2.4. Unknown acute toxicity (GHS-US	5)			
No data available				
SECTION 3: Composition/informa	tio <u>n on in</u>	gredients		
3.1. Substance				
Not applicable				
		Product identifier	%	Classification (GHS-US)
		<b>Product identifier</b> (CAS No) 64742-47-8	% >= 95	Classification (GHS-US) Asp. Tox. 1, H304

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Name	Product identifier	%	Classification (GHS-US)
paraffins (petroleum), normal C5-20	(CAS No) 64771-72-8	< 1	Not classified
xylene, mixture of isomers	(CAS No) 1330-20-7	< 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315
distillates, hydrotreated light	(CAS No) 64742-47-8	< 1	Asp. Tox. 1, H304
ECTION 4: First aid measures			
.1. Description of first aid measures			
irst-aid measures general	: Never give anything by mouth to (show the label where possible).		. If you feel unwell, seek medical adv ancer.
irst-aid measures after inhalation	: Assure fresh air breathing. Allow	the victim to rest.	
irst-aid measures after skin contact	: Remove affected clothing and w warm water rinse.	ash all exposed skin are	a with mild soap and water, followed
irst-aid measures after eye contact	: Rinse immediately with plenty of persist.	water. Obtain medical a	ttention if pain, blinking or redness
irst-aid measures after ingestion	: Rinse mouth. Do NOT induce vo doctor/physician.	miting. Immediately call	a POISON CENTER or
.2. Most important symptoms and effec	ts, both acute and delayed		
ymptoms/injuries after ingestion	: May be fatal if swallowed and er	iters airways.	
.3. Indication of any immediate medical	attention and special treatment n	eeded	
lo additional information available			
ECTION 5: Firefighting measures			
.1. Extinguishing media			
uitable extinguishing media	: Foam. Dry powder. Carbon diox		
nsuitable extinguishing media	: Do not use a heavy water stream	n.	
2. Special hazards arising from the sul	stance or mixture		
re hazard	: Combustible liquid.		
xplosion hazard	: May form flammable/explosive v	apor-air mixture.	
.3. Advice for firefighters			
irefighting instructions	: Use water spray or fog for coolir chemical fire. Prevent fire-fightin		exercise caution when fighting any avironment.
Protection during firefighting	: Do not enter fire area without pro	oper protective equipment	nt, including respiratory protection.
ECTION 6: Accidental release meas	ures		
.1. Personal precautions, protective eq	uipment and emergency procedur	es	
General measures	: Remove ignition sources. Use s smoking.	pecial care to avoid station	c electric charges. No naked lights. I
.1.1. For non-emergency personnel			
Protective equipment	: Gloves. Safety glasses.		
mergency procedures	: Evacuate unnecessary personne	el.	
.1.2. For emergency responders			
Protective equipment	: Equip cleanup crew with proper	protection.	
mergency procedures	: Ventilate area.		
.2. Environmental precautions			
revent entry to sewers and public waters. Notify	authorities if liquid enters sewers of	public waters.	
3. Methods and material for containme	•		
or containment	: Dam up the liquid spill.		
lethods for cleaning up		uch as clay or diatomac	eous earth as soon as possible. Coll
	spillage. Store away from other		
.4. Reference to other sections			
ee Heading 8. Exposure controls and personal	protection.		
SECTION 7: Handling and storage			
.1. Precautions for safe handling			
dditional hazards when processed	: Handle empty containers with ca heat,sparks,open flames,hot sur		ors are flammable. Keep away from

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Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation or vapor. No naked lights. No smoking. Obtain special instructions. Do not handle until all safety precautions have been read and understood.
Hygiene measures	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Technical measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Keep in fireproof place.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
7.3. Specific end use(s)	
Follow Label Directions.	
SECTION 8: Exposure controls/pe	rsonal protection
8.1. Control parameters	

ethylbenzene (100-41-4)		
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA ACGIH	ACGIH STEL (ppm)	125 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	100
USA OSHA	OSHA PEL (STEL) (mg/m <sup>3</sup> )	545 mg/m³
USA OSHA	OSHA PEL (STEL) (ppm)	125 ppm

Distillates (Petroleum), hydrotreated light (64742-47-8)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm 8 Hours
vylene mixture of isomers (1330-20-7)		

xylene, mixture of isomers (1330-20-7)		
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA ACGIH	ACGIH STEL (ppm)	100 ppm

#### 8.2. **Exposure controls**

Appropriate engineering controls Personal protective equipment

- : Local exhaust venilation, vent hoods.
- : Avoid all unnecessary exposure. Gloves. Safety glasses.

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Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear respiratory protection.
Other information	: Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical an	d chemical properties
Physical state	: Liquid
Appearance	: Colorless to pale yellow liquid.
Color	: Colourless to light yellow.
Odor	: Petroleum-like odour.
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 187 - 264 °C Lowest Component
Flash point	: 86 °C Closed Cup
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Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: 0.803 @ 60 F	
Solubility	: Poorly soluble in water.	
Log Pow	: No data available	
Log Kow	: No data available	
Viscosity, kinematic	: 1.7 cSt @ 40C	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Explosive limits	: No data available	
9.2. Other information		
VOC content	: 1.7 %	
SECTION 10: Stability and rea	activity	
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Combustible liquid. May form flammabl	e/explosive vapor-air mixture.	
10.3. Possibility of hazardous re	actions	
Not established.		
10.4. Conditions to avoid		
Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.		
10.5. Incompatible materials		
Strong acids. Strong bases.		

10.6. Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide. May release flammable gases.

## **SECTION 11: Toxicological information**

11.1. Information on toxicological effects

Acute toxicity

### : Not classified

ethylbenzene (100-41-4)		
LD50 oral rat	3500 mg/kg (Rat; Other; Experimental value)	
LD50 dermal rabbit	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)	
LC50 inhalation rat (mg/l)	17.8 mg/l/4h (Rat; Literature study)	
LC50 inhalation rat (ppm)	4000 ppm/4h (Rat; Literature study)	
paraffins (petroleum), normal C5-20 (64771	-72-8)	
LD50 oral rat	> 5000 mg/kg (Rat)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)	
Distillates (Petroleum), hydrotreated light (	64742-47-8)	
LD50 oral rat	> 5000 mg/kg body weight	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	> 5.28 mg/l/4h Based on lack of mortality and systemic effects	
xylene, mixture of isomers (1330-20-7)		
LD50 oral rat	3523 - 8600 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 3523 mg/kg bodyweight; Rat; OECD 401: Acute Oral Toxicity; Experimental value; >4000 mg/kg bodyweight; Rat; OECD 401: Acute Oral Toxicity; Experimental value)	
LD50 dermal rabbit	> 4200.000000 mg/kg (Rabbit; Experimental value, Rabbit; Experimental value)	
LC50 inhalation rat (mg/l)	29 mg/l/4h (Rat; Experimental value; 27.57 mg/l/4h; Rat; Experimental value)	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: Not classified	
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Germ cell mutagenicity	: Not classifiedBased on available data, the classification criteria are not met
Carcinogenicity	: Suspected of causing cancer.
ethylbenzene (100-41-4)	
IARC group	2B
xylene, mixture of isomers (1330-20-7)	
IARC group	3
Reproductive toxicity	: Not classifiedBased on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classifiedBased on available data, the classification criteria are not met
Aspiration hazard	: May be fatal if swallowed and enters airways.Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.

### **SECTION 12: Ecological information**

12.1. Toxicity

ethylbenzene (100-41-4)	1		
LC50 fish 1	9.09 mg/l (96 h; Pimephales promelas)		
EC50 Daphnia 1	77 mg/l (24 h; Daphnia magna)		
EC50 other aquatic organisms 1	48 mg/l (72 h; Scenedesmus subspicatus)		
LC50 fish 2	4.2 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)		
EC50 Daphnia 2	75 mg/l (48 h; Daphnia magna)		
TLM fish 1	29 ppm (96 h; Lepomis macrochirus; Hard water)		
TLM fish 2     42.3 mg/l (96 h; Pimephales promelas)			
TLM other aquatic organisms 1 10 - 100,96 h			
Threshold limit algae 1	> 160 mg/l (192 h; Scenedesmus quadricauda; Toxicity test)		
Threshold limit algae 2	33 mg/l (192 h; Microcystis aeruginosa; Toxicity test)		
xylene, mixture of isomers (1330-20-7)			
LC50 fish 1	13.5 mg/l (96 h; Lepomis macrochirus; Lethal)		
EC50 Daphnia 1	150 mg/l (24 h; Daphnia magna)		
LC50 fish 2	3.77 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)		
EC50 Daphnia 2	7.4 mg/l (48 h; Daphnia magna)		
Threshold limit algae 1 72 mg/l (336 h; Selenastrum capricornutum; Growth)			
Threshold limit algae 2	10 mg/l (72 h; Skeletonema costatum)		
12.2. Persistence and degradability			
NGEN SOLO SHOT FUEL NHANCER 6 FL.OZ			
Persistence and degradability Not established.			
ethylbenzene (100-41-4)			
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.		
Biochemical oxygen demand (BOD)	1.44 g $O_2$ /g substance (20d.)		
Chemical oxygen demand (COD)	2.1 g O <sub>2</sub> /g substance		
ThOD	3.17 g O <sub>2</sub> /g substance		
BOD (% of ThOD)	(20 day(s)) 45.4		
paraffins (petroleum), normal C5-20 (64771-72	2-8)		
Persistence and degradability Readily biodegradable in water.			
Distillates (Petroleum), hydrotreated light (64	742-47-8)		
Persistence and degradability	Not established.		
xylene, mixture of isomers (1330-20-7)			
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photolysis in the air.		

#### 12.3. **Bioaccumulative potential**

## NGEN SOLO SHOT FUEL NHANCER 6 FL.OZ.

Bioaccumulative potential	Not established.
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ethylbenzene (100-	41-4)			
BCF fish 1		1 (6 weeks; Oncorhynchus kisutch)		
BCF fish 2		15 - 79 (Carassius auratus)		
BCF other aquatic organisms 1		4.68 (Lamellibranchiata)		
Log Pow		3.15 (Experimental value; 3.6; Experimental value; EU Method A.8; 20 °C)		
Bioaccumulative potential		Low potential for bioaccumulation (BCF < 500).		
paraffins (petroleu	m), normal C5-20 (64771-7	72-8)		
Bioaccumulative pot	ential	No bioaccumulation data available.		
Distillates (Petrole	um), hydrotreated light (6	4742-47-8)		
Bioaccumulative pot	ential	Not established.		
xylene, mixture of	isomers (1330-20-7)			
BCF fish 1		15 8 weeks; Salmo gairdneri (Oncorhynchus mykiss)		
BCF fish 2		7 - 26 (8 weeks; Oncorhynchus mykiss)		
Log Pow		3.2 (Conclusion by analogy; 20 °C)		
Bioaccumulative pot	ential	Low potential for bioaccumulation (BCF < 500).		
12.4. Mobility in	soil			
ethylbenzene (100-	41-4)			
Surface tension		0.029 N/m		
xylene mixture of i	isomers (1330-20-7)			
Ecology - soil		May be harmful to plant growth, blooming and fruit formation.		
12.5. Other adve	erse effects			
Other information		: Avoid release to the environment.		
SECTION 13: Dis	sposal consideration	IS		
13.1. Waste treat	tment methods			
Waste disposal recommendations :		<ul> <li>Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.</li> </ul>		
Additional information :		: Handle empty containers with care because residual vapors are flammable.		
		: Avoid release to the environment. Hazardous waste due to toxicity.		
	ansport information DR / RID / IMDG / IATA / AI			
US DOT (ground):		iquid, n.o.s. (Petroleum Distillates, Xylenes), 3, III, Limited Quantity		
		······································		
ICAO/IATA (air): Not regulated,				
IMO/IMDG (water): Not regulated,				
Special Provisions: IB3 - Authorized IBCs: Metal (		Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2,		

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

14.2. UN proper shipping name	
DOT Proper Shipping Name	: Combustible liquid, n.o.s. (Petroleum Distillates, Xylenes)
Department of Transportation (DOT) Hazard Classes	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
Packing group (DOT)	: III - Minor Danger

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DOT Special Provisions (49 CFR 172.102)	<ul> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T1 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport No additional information available	
Transport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
SECTION 15: Regulatory information	
15.1. US Federal regulations	
NGEN SOLO SHOT FUEL NHANCER 6 FL.OZ	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard
ethylbenzene (100-41-4)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard Delayed (chronic) health hazard
Distillates (Petroleum), hydrotreated light (64	742-47-8)
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
xylene, mixture of isomers (1330-20-7)	
SARA Section 311/312 Hazard Classes	Fire hazard
15.2. International regulations	
CANADA	
NGEN SOLO SHOT FUEL NHANCER 6 FL.OZ	
	Olean D Division 0. Operative time to an

WHMIS Classification         Class B Division 3 - Combustible Liquid		
Distillates (Petroleum), hydrotreated light (64742-47-8)		
WHMIS Classification Uncontrolled product according to WHMIS classification criteria		

#### **EU-Regulations**

No additional information available

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

### 15.2.2. National regulations

No additional information available

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15.3. US State regulations

#### ethylbenzene (100-41-4)

U.S Pennsvlvania	- RTK (I	Right to I	Know) I i	st

U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

### **SECTION 16: Other information** Indi

Indicati	on of changes	: Revision - See : *.	
Other in	nformation	: None.	
Full tex	t of H-phrases: see section 16:		
	Asp. Tox. 1		Aspiration hazard Category 1
	Carc. 2		Carcinogenicity Category 2
	Flam. Liq. 3		Flammable liquids Category 3
	Flam. Liq. 4		Flammable liquids Category 4
	Skin Irrit. 2		Skin corrosion/irritation Category 2
	H226		Flammable liquid and vapor
	H227		Combustible liquid
	H304		May be fatal if swallowed and enters airways
	H315		Causes skin irritation
	H351		Suspected of causing cancer

NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 2 Moderate Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: B

SDS US (GHS HazCom 2012) - Technical Chemical

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product

Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OT THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.