SAFETY DATA SHEET

AMERICAN INDUSTRIES, INC.
WWW.AMERICANINDUSTRIES.COM

SECTION 1: IDENTIFICATION

COMPANY NAME:	AMERICAN INDUSTRIES, INC.	**PRODUCT NAME:**	**D-KLEEN**
ADDRESS LINE 1:	4300 Kahn Drive, Box 1405	**PRODUCT CODE:**	3067
ADDRESS LINE 2:	Lumberton, NC 28359-1405 USA	**PRODUCT USE:**	Diesel Fuel Additive
TELEPHONE NUMBERS:	800-753-5153 (or) 910-738-7224	**SDS FILE ID:**	3067.02
EMERGENCY PHONE:	**CHEMTREC 1-800-424-9300**	**SDS DATE:**	2016-04-07
		REPLACES VERSION DATED:	2014-10-07 *and all prior versions*

SECTION 2: HAZARDS IDENTIFICATION

Classification:	Flammable Liquid	Category 3 H226
	Acute Toxicity	Category 4 H302 (Oral)
	Acute Toxicity	Category 4 H332 (Inhalation)
	Skin Irritant	Category 2 H315
	Eye Irritant	Category 2B H320
	Mutagenicity	Category 1B G340
	Carcinogen	Category 1B H350
	Specific Target Organ Toxicity	Category 3 H335
	Specific Target Organ Toxicity	Category 3 H336
	Aspiration Toxicity	Category 1 H304

Label elements

Signal word: Danger

Hazard statement: Flammable liquid and vapor. Harmful if swallowed or if inhaled. May be fatal if swallowed and enters airways. Causes skin irritation. Causes eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer.

Precautionary statement: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames. -No smoking .Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical, lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing fume, mist, spray, vapors. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear eye protection, protective clothing, protective gloves. If swallowed: immediately call a doctor, a Poison Center. If swallowed: Call a doctor, a Poison Center if you feel unwell. If on skin: Wash with plenty of soap and water. If on skin (or hair): Take off immediately all contaminate clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a doctor, a Poison C enter, if you feel unwell. Specific treatment (see First Aid measures on label). Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish. Store in a well ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container to comply with local/Regional/national/international regulations.

Other hazards: No additional information available.

Unknown acute toxicity: Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance Not applicable

Full text of H-phrases: see section 16

Mixture

Chemical name	CAS number	%	GHS Classification
Solvesso 100	64742-95-6	50-90	Flam. Liq. 3, H226 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304
Trimethylbenzene	25551-13-7	30-60	Acute Tox. 4 (Oral). H302 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Asp. Tox 1, H304
1,2,4-trimethylbenzene	95-63-6	15-40	Flam Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 STOT SE 3, H335 Aquatic Chronic 2, H411
2-ethylhexyl nitrate	27247-96-7	5-10	Acute Tox 2 (inhalation) H332
Cumene	98-82-8	`4-9	Flam. Liq, 3, H226 Carc, 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304
Xylene	1330-20-7	0.5-5	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
Solvent naphtha (petroleum), heavy arom.; Kerosine-unspecified, [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165^{o}C to 290^{o}C (330^{o}F to 554^{o}F).]	64742-94-5	1-5	Asp. Tox. 1, H304
Cymenes	25155-15-1	0.5-1.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit, 2A H319
Naphthalene	91-20-3	0.1-1	Flam. Liq. 4, H227 Acute Tox. 4 (oral), H302 Carc. 1B, H350 Aquatic Acute 1, H400

SECTION 4: FIRST AID MEASURES

General	If you feel unwell, seek medical advice (show the label where possible). If exposed or concerned: Get medical advice/attention.
Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing and wash it before reuse .Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Ingestion	Immediately call a poison center or doctor/physician. Rinse mouth with water. Do NOT induce vomiting.
Symptoms/injuries	If you feel unwell, seek medical advice. Harmful if inhaled. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause genetic defects (through prolonged or repeated exposure). May cause cancer.
Symptoms/injuries after inhalation	Irritation of the respiratory tract. Headache. May cause drowsiness or dizziness. Central nervous system depression.
Symptoms/injuries after skin contact	Causes skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/injuries after eye contact	Causes eye irritation.
Symptoms/injuries after ingestion	May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Gastrointestinal complaints. Cramps. Nausea. Vomiting.
Special treatment needed	Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Dry chemical powder, Carbon dioxide, alcohol resistant foam.
Fire hazard	Extremely flammable liquid and vapor.
Explosion hazard	Vapors may travel long distances along ground before igniting/flashing back to vapor source.
Reactivity	Upon combustion: CO and CO2 are formed.
Firefighting instructions	Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

General measures	Remove ignition sources. Use special care to avoid static electric charges.
Protective equipment for non-emergency personnel	Protective goggles. Gloves. Protective clothing.
Emergency procedures for non-emergency personnel	Evacuate unnecessary personnel. No naked flames or sparks.
Protective equipment for emergency responders	Equip cleanup crew with proper protection.
Emergency procedures for emergency responders	Stop leak if safe to do so. Stop release. Ventilate area.
Environmental precautions	Avoid release to the environment. Prevent entry to sewers and public waters.
Methods for containment	Contain released substance, pump into suitable containers.
Methods for cleaning up	This material and its container must be disposed of in a safe way, and as per local legislation. Take up liquid spill into inert absorbent material, e.g.: sand/earth. Clean contaminated surfaces with a soap solution.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Do not breathe vapors. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Handle and open the container with care. Keep away from sources of ignition-No smoking. Take precautions against electrostatic charges. Obtain special instructions before use. Remove contaminated clothing immediately.

Hygiene measures	Wash thoroughly after handling. Wash contaminated clothing before reuse.
Technical measures	Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from: sparks, open flames, excessive heat.
Incompatible products	Strong oxidizers. Acids..
Incompatible materials	Sources of ignition. Heat sources.
Storage area	Store away from heat. Store in a cool area. Store in a dry area. Store in a well-ventilated place. Keep locked up.
Special rules on packaging	Keep only in original container. Meet the legal requirements.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	ACGIH TWA (ppm)	ACGIH STEL (ppm)	ACGIH Remark (ACGIH)
Naphthalene (91-20-3)	10 ppm	10 ppm	Hematologic eff; URT & eye irr; Skin; A3
14,2,4-trimethylbenzene (95-63-6)	25 ppm	25 ppm	
Cumene (98-82-8)	50 ppm		Eye, skin, & YRT irr; CNS impair
Xylene (1330-20-7)	100 ppm	150 ppm	URT & eye irr; CNS impair

Personal protective equipment	Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Protective clothing. Protective goggles. Safety glasses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, gold colored liquid
Odor	Solvent odor
Odor threshold	No data available
pH	No data available
Melting point	No data available
Boiling point	No data available
Freezing Point	No data available
Flash point	108^{o}F (42^{o}C) Closed Cup
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	No data available
Explosion limits	No data available
Explosive properties	Heating may cause a fire or explosion.
Oxidizing properties	No data available
Vapor pressure	No data available
Relative density	No data available
Relative vapor density at 20^{o}C (68^{o}F)	No data available
Specific gravity/density	0.87 g/ml
Solubility in Water	Insoluble in water
Log Pow	No data available
Log Kow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	<20 cSt
Viscosity, dynamic	No data available
VOC content	ND

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Upon combustion: CO and CO2 are formed.
Chemical stability	No additional information available.
Conditions to avoid	No additional information available.
Incompatibility	Oxidizing agents. Acids.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possible hazardous reactions	Refer to section 10 on Reactivity.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Oral: Harmful if swallowed Inhalation: dust, mist: Harmful if inhaled.	
Naphthalene (91-20-3)	LD50 oral rat	>1100 mg/kg (Rat)
	LD50 dermal rat	>2500 mg/kg (Rat)
	LD50 dermal rabbit	>20000 mg/kg (Rabbit)
	ATE CLP (oral)	500.000 mg/kg body weight
2-ethylhexyl nitrate (27247-96-7)	LD50 oral rat	>9640mg/kg (Rat)
	LD50 dermal rat	>4820 mg/kg (Rabbit)
	ATE CLP (gases)	4500.000 ppm V/4h
	ATE CLP (dvapors)	11.000 mg//l/4h
	ATE CLP (dust, mist)	1.500 mg/l/4h
Trimethylbenzene (25551-13-7)	LD50 oral rat	500 mg/kg
1,2,4-trimethylbenzene (95-63-5	LD50 oral rat	>5000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature; 6000mg/kg bodyweight; Rat; Experimental value)
	LD50 dermal rat	>3440 mg/kg (Rat; Read-across; OECD 402: Acute Dermal Toxicity)
	LC50 inhalation rat (mg/l)	18 mg/l/4h (Rat)
Solvesso 100 (64742-95-6)	LD50 Oral rat	>2000 mg/kg (Rat)
	LD50 dermal rabbit	>3160 mg/kg (Rabbit)
Xylene (1330-20-7)	LC inhalation rat (ppm)	4550 ppmB/4h
	ATE CLP (dermal)	1100.000 mg/kg body weight
	ATE CLP (gases)	4550.000 ppmV/4H
	ATE CLP (dust, mist)	1.500 mg/l/4h
Cymenes (25155-15-1)	LD50 oral rat	>2000 mg/kg (Rat)
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/irritation	Causes eye irritation.	
Respiratory or skin sensitization	Not classified.	
Germ cell mutagenicity	May cause genetic defects.	
Carcinogenicity	May cause cancer.	
Naphthalene (91-20-3)	IARC group	2B-Possibly Carcinogenic to Humans
	NTP Status	3-Reasonably anticipated to be Human Carcinogen

cumene (98-82-8)	IARC group	2B-Possibly Carcinogenic to Humans
Xylene (1330-20-7)	IARC group	3-Not classifiable
Reproductive toxicity	Not classified	
Specific target organ toxicity (single exposure)	May cause respiratory irritation. May cause drowsiness or dizziness.	
Specific target organ toxicity (repeated exposure)	Not classified.	
Aspiration hazard	May be fatal if swallowed and enters airways.	
Symptoms/injuries after inhalation	Irritation of the respiratory tract. May cause drowsiness or dizziness. Central nervous system depression.	
Symptoms/injuries after skin contact	Causes skin irritation. Repeated exposure may cause skin dryness or cracking.	
Symptoms/injuries after eye contact	Causes eye irritation.	
Symptoms/Injuries after ingestion	May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Gastrointestinal complaints. Cramps. Nausea. Vomiting.	

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Naphthalene (91-20-3)	LC50 fish 1	1.99 mg/l (96 h; Pemephales promelas)
	EC50 Daphnia 1	2.16 mg/l (48 h; Daphnia magna)
	EC50 other aquatic organisms 1	2.96 mg/l (4 h; Selanastrum capricornutum)
	LC50 fish 2	0.11 mg/l (96 h; Oncorhynchus mykiss)
	TLM fish 1	150 mg/l (96 h; Lepomis macrochirus; Cool water)
	TLM fish 2	1.24 ppm (96 h; Oncorhynchus gorbuscha)
	Threshold limit algae 1	0.4 mg/l (72h; Skeletonema costatum; Growth rate)
2-ethylhexyl nitrate (27247-96-7)	LC50 fish 1	116 mg/l 48h; Salmo gairdneri (Oncorhynchus mykiss)
	EC50 Daphnia 1	>12.6 mg/l (48 h; Daphnia magna; Nominal concentration)
	LC50 fish 2	145 mg/l 24 h; Sa;,p gaordmero (Oncorhynchus mykiss)
	Threshold limit algae 1	3.22 mg/l (72 h; Pseudokirchneriella subcapitata; growth rate)
1,2,4-trimethylbenzene (95-63-6)	LC50 fish 1	7.72 mg/l (96 h: Pimephales promelas; Lethal)
	LC50 fish 2	18 mg/l (48 h; Oryzias latipes)
	Threshold limit algae 1	1 mg/l (72h; Algae)
	Threshold limit algae 2	2.356 mg/l (96h; Algae)
Solvesso 100 (64742-95-6	LC50 fish 1	18 mg/l (Pisces)
	EC50 Daphnia 1	21 mg/l (Daphnia sp.)
	Threshold limit algae 1	1 – 10,Algae

Persistence and degradability

Naphthalene (91-20-3)	Persistence and degradability	Readily biodegradable in water. Foaming sediments in water. Biodegradable in the soil. Absorbs into the soil. Photolysis in the air.
	Biochemical oxygen demand (BOD)	0 g O▫/g substance
	Chemical oxygen demand (COD)	0.22 g O▫/g substance
	ThOD	2.99 g O▫/g substance
2-ethylhexyl nitrate (27247-96-7)	Persistence and degradability	Not readily biodegradable in water.

1,2,4-trimethylbenzene (95-63-6)	Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the sol. Adsorbs into the soil. Low potential for mobility in soil. Photodegradation in the air.
	Chemical oxygen demand (COD)	0.44 g O▫/g substance
Solvesso 100 (64742-95-6)	Persistence and degradability	Readily biodegradable in water
Cymenes (25155-15-1)	Persistence and degradability	Biodegradability in water: no data available.
Bioaccumulative potential		
Naphthalene (91-20-3)	BCF fish 1	23 – 168 (8 weeks; Cyprinus carpio)
	BCF fish 2	40 – 300 (672 h; Oncorhynchus mykiss)
	BCF other aquatic organisms 1	331 (360 h; Ostreidae)
	BCF other aquatic organisms 2	130 (24 h: Chlorella sp.)
	LOG POW	3.30 (Experimental value)
	Bioaccumulative potential	Low potential for bioaccumulation (BCF <500).
2-ethylhexyl nitrate (27247-96-7)	Log Pow	5.24 (Test data; OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
	Bioaccumulative potential	High potential for bioaccumulation (Log Kow >5).
1,2,4-trimethylbenzene (95-63-6)	BCF fish 1	31 -275 (8 weeks; Cyprinus carpio)
	Log Pow	3.63 – 4.09 (Experimental value)
	Bioaccumulative potential	Potential for bioaccumulation (4≥ Log Kow ≤5)
Solvesso 100 (64742-95-6)	Log Pow	>3
Cymenes (25155-15-1)	Bioaccumulative potential	No bioaccumulation data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: TRANSPORT INFORMATION

DOT information	When transported by ground in non-bulk containers, this product utilizes the exception found under 49 CFR 173.150
ADR	No additional information available.
Transport by sea	No additional information available
Air transport	No additional information available.

SECTION 15: REGULATORY INFORMATION

TSCA Status: All chemicals are listed or exempt.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Naphthalene	CAS No 91-20-3	0 .1– 1
1,2,4-trimethylbenzene	CAS No 95-63-6	15-40
Cumene	CAS No 98-82-8	4-9
Xylene	CAS No 1330-20-7	0.5-5
Benzene	CAS No 71-43-2	<50
Naphthalene (91-20-3)	Listed on SARA Section 313 (Specific toxic chemical listings)	RQ (Reportable quantity, section 304 of EPA's List of Lists) 100 lb
1,2,4-trimethylbenzene (95-63-6)	Listed on SARA Section 313 (Specific toxic chemical listings)	
Cumene (98-82-8)	Listed on Sara Section 313 (specific toxic chemical listings)	

RQ (reportable quantity, section 304 of EPA's List of Lists)	5000 lb
Xylene (1330-20-7)	Listed on SARA Section 313 (Specific toxic chemical listings)
RQ (reportable quantity, section 304 of EPA's List of Lists)	100 lb

CALIFORNIA PROPOSITION 65-This product contains, or may contain, trace quantities of a substance(s) known to the State of California to cause cancer and/or reproductive toxicity.

SECTION 16: OTHER INFORMATION

Training advice: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox.4 (Inhalation; dust, mist)	Acute toxicity (inhalation: dust, mist) Category 4
Acute Tox. 4 (oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment-Acute Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment-Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcingoenicity Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. 4	Flammable liquids Category 4
Muta. 1B	Germ cell mutagenicity Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

Important Note: *To be the best of our knowledge, the information contained herein is accurate. However there is no assumption of liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer/supplier, the manufacturer/supplier will not be responsible for loss, injury, or expense arising out of the products improper use. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.*

End of SDS