



SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS REVISION 5, OSHA 29CFR 1910.1200

Section 1: Chemical Product and Company Identification

MANUFACTURER'S NAME

IXL Technologies, LLC
2719 N. Parkland Blvd
Pleasant View, Utah 84404

EMERGENCY TELEPHONE

Chemtrec U.S.-Canada: 800-424-9300
Chemtrec International: 703-527-8277
Information: 801-458-1589
Fax: 801-731-4499
Jordan Olsen: jordan.olsen@ixldirect.com

Safety Data Sheet Competent Person:

DATE PREPARED: August 7, 2015

REVISION DATE: August 14, 2015

PRODUCT NAME:

IXL Regen Fix + Anti-Gel Winter Diesel Treatment

FORMULA:

Preparation/Mixture

PRODUCT USE:

Cold weather fuel additive for diesel engines

Section 2: Hazards Identification

GHS Hazard Class

Flammable liquid -- Category 2, 3, 4
Acute Toxicity Oral – Category 5
Acute Toxicity Inhalation – Category 3, 4
Acute Toxicity Dermal – Category 4
Skin Corrosion/irritation – Category 2, 3
Serious Eye Damage – Category 1, 2A, 2B
Carcinogenicity – Category 1A, 1B 2
Respiratory or Skin sensitization – Category 1
Germ Cell Mutagenicity – Category 2
Reproductive Toxicity – Category 1B, 2
Specific Target Organ Toxicity – Single Exposure – 1, 2, 3
Specific Target Organ Toxicity – Repeated Exposure – 1, 2
Aspiration hazard -- Category 1, 2
Aquatic Toxicity – Acute – Category 1, 2, 4
Aquatic Toxicity – Acute – Category 2, 4



Signal word:

Danger

Hazard Statement:

H225: Highly flammable liquid and vapor
H226: Flammable liquid and vapor
H227: Combustible liquid
H302: Harmful if swallowed
H332: Harmful if inhaled
H316: Causes mild skin irritation
H317: May cause an allergic skin reaction
H318: Causes serious eye damage
H319: Causes serious eye irritation
H320: Causes eye irritation
H331: Toxic if inhaled
H341: Suspected of causing genetic defects
H350: May cause cancer (Crude oil or slightly refined oil)
H371: May cause damage to organs (lung)
H372: Cause damage to organs through prolonged or repeated exposure (lung, skin)
H304: May be fatal if swallowed and enters airways
H350: May cause cancer
H361: Suspected of damaging fertility or the unborn child.
H370: Causes damage to organs (blood system, urinary organs)
H372: Causes damage to organs through prolonged or repeated exposure.
H373: May cause damage to organs through prolonged or repeated exposure (kidney)
H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects



Precautionary Statements:

Prevention

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P240: Ground/bond container and receiving equipment.
 P241: Use explosion-proof electrical/ventilating/lighting/equipment
 P242: Use only non-sparking tools.
 P243: Take precautionary measures against static discharge.
 P260: Do not breathe dust/fume/gas/mist/vapors/spray
 P261: Avoid breathing dust/fume/gas/mist/vapors/spray
 P270: Do not eat, drink or smoke when using this product.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P271: Use only outdoors or in a well-ventilated area.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P264: Wash hands thoroughly after handling.
 P201: Obtain special instructions before use.
 P202: Do not handle until all safety precautions have been read and understood.
 P281: Use personal protective equipment as required.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P273: Avoid release to the environment.

Response

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P330: Rinse mouth.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P308+P313: IF exposed or concerned: Get medical advice/attention.
 P309+P311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
 P310: Immediately call a POISON CENTER or doctor/physician.
 P314: Get medical advice/attention if you feel unwell.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P331: Do NOT induce vomiting.
 P391: Collect spillage.
 P405: Store locked up.
 P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P501: Dispose of contents/container in accordance with waste disposal requirements of your country, state, or local authorities.

Storage

Disposal

Hazards not otherwise classified (HNOC) or not covered by GHS - None

HAZARD CLASSIFICATION:

Flammable liquid (based on IATA, IMDG and DOT)

FIRE AND EXPLOSION:

Decomposition products are oxides of carbon and nitrogen.

POTENTIAL HEALTH EFFECTS:

<1 % of mixture consists of ingredients of unknown acute toxicity

APPEARANCE:

Dark Amber

NFPA Rating:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
Product	2	2	1	----



Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPROX %	CAS NO.	EC NO.	CANADA DSL
Naphtha (petroleum), Heavy Alkylate	<45	64741-65-7	265-067-2	Y
Benzene, 1,2,4-Trimethylbenzene	<30	Mixture	Mixture	Y
Solvent Naptha (petroleum), light aromatic	<20	64742-95-6	265-199-0	Y
Petroleum Distillates	<30	Mixture	Mixture	Y
Ethylhexyl Nitrate	<5	27247-96-7	248-363-6	Y
Petroleum Base Oil & Additives	<5	64741-88-4	265-090-8	Y
Petroleum Lubricant & Proprietary Ingredient	<5	Mixture	Mixture	Y

Some items on this SDS may be designated as trade secrets (TS). Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

Section 4: First Aid Measures

Description of First Aid Measures

Inhalation	Remove to fresh air. If not breathing, give artificial respiration and contact a physician immediately. If breathing is difficult, administer oxygen and contact a physician immediately.
Skin Contact	Wash skin with plenty of soap and water while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists. Wash clothing separately before reuse.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove any contact lenses if worn. Get medical attention if irritation develops or persists.
Ingestion	If swallowed, do NOT induce vomiting, but have the victim rinse mouth with water, and then drink 2 - 4 cupfuls of water. Get immediate medical attention. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Most important symptoms and effects, both acute and delayed

Symptoms/Injuries after Inhalation	Vapor inhalation and/or skin absorption can cause central nervous system effects, including dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. Chronic exposures may cause hearing loss, irregular heart rhythms and potential cardiac arrest.
Symptoms/Injuries after Skin Contact	Moderately irritating to respiratory tract. Prolonged or repeated contact may result in drying of the skin which may result in skin irritation and dermatitis.
Symptoms/Injuries after Eye Contact	Contact with eyes may cause irritation or discomfort.
Symptoms/Injuries after Ingestion	Liquid can directly enter the lungs when swallowed or vomited. Serious lung damage and possibly fatal chemical pneumonia can develop if this occurs.

Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

Note to Physician

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated, charcoal in 400 mls of water and mix thoroughly. Administer 5 ml/kg or 350 ml for an average adult. Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk justified by the presence of additional toxic substances. Activated charcoal may induce vomiting, but



may be given after emesis or lavage to absorb toxic additives. Steroid therapy in mild to moderate cases does not improve outcome. Bacterial pneumonia often occurs after exposure, but prophylactic antibiotics are not indicated and should be reserved for documented bacterial pneumonia. Light hydrocarbons have been associated with cardiac sensitization in abuse situations. Hypoxia or the injection of adrenaline-like substances enhanced these effects.

Section 5: Fire-fighting Measures

Suitable extinguishing media

Special hazards arising from the substance or mixture

Protective actions fire-fighters

Further information

Use foam, dry chemical, water spray, or carbon dioxide.

Vapors will burn releasing toxic vapors, fumes and smoke, including carbon monoxide and organic vapors. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture or explosion.

Wear standard protective equipment and self contained breathing apparatus for firefighting if necessary.

When heated above 100°C, may undergo a self-accelerating, exothermic reaction which causes a rapid rise in temperature and pressure. Rupture of storage vessels and fire should be anticipated in case of such temperatures. Spray storage vessels with water to maintain temperature below 100°C.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Wear proper personal protective equipment. Avoid breathing vapors or mist.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent spills or contaminated rinse water from entering sewers or watercourses.

Methods and materials for containment and cleaning up

In case of small spills, absorb spills with inert material. Transfer to a chemical waste container and dispose of properly. Spills are extremely slippery and should be cleaned up immediately. In case of large spills, stop the source of the leak, if it is safe to do so. Contain spilled material. Vacuum or sweep up material and place in a disposal container. Absorb residue with inert material (e.g. dry sand or earth), then place in a chemical waste container. Do not flush to sewer. Use explosion-proof equipment during clean-up.

Reference to other Sections For personal protection reference section 8. For disposal reference section 13.

Section 7: Handling and Storage

Precautions for safe handling

Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

Do not smoke while using

Do not re-use empty containers

Wear personal protective equipment

Avoid prolonged exposure

Use only with adequate ventilation

Do not inhale vapors

Avoid spilling and releasing vapor

Avoid contact with skin, eyes, or clothing

Wash hands and face after handling this material

Appropriate container should be used for disposal

For precautions see section 2

Conditions for safe storage, including any incompatibilities

Secure containers after each use

Store upright in a cool, dry place

Keep away from heat, sparks, flame, direct sunlight, and other possible sources of ignition

Keep out of reach of children

Ground containers when transferring material

Avoid contact with strong oxidizing agents

Keep away from food, drink, and animal feedingstuffs



Utilize chemical segregation
Follow all applicable local regulations for handling and storage

Specific uses

Cold weather fuel additive for diesel engines

Section 8: Exposure Controls/Personal Protection

Control Parameters

PRODUCT COMPOSITION	CAS	ACGIH TLV	OSHA PEL	NIOSH REL
Solvent Naptha (petroleum), light aromatic	64742-95-6	--	TWA 500 ppm	--
1,2,4-Trimethylbenzene	95-63-6	TWA 25 ppm	None	TWA 25 ppm (125 mg/m ³)
Naphthalene	91-20-3	--	TWA 10 ppm (50 mg/m ³)	TWA 10 ppm (50 mg/m ³) ST 15 ppm (75 mg/m ³)

Exposure controls

VENTILATION:

Always provide good general, mechanical room ventilation where this chemical/material is used.

SPECIAL VENTILATION CONTROLS:

Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

RESPIRATORY PROTECTION:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the CEN European Standards (EU). Use a NIOSH/MSHA or European Standard (EN) approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

PROTECTIVE GLOVES:

Neoprene, butyl, or nitrile rubber gloves are recommended.

EYE PROTECTION:

Recommend eye protection using safety glasses with side shields.

SKIN PROTECTION:

When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

WORK/HYGIENE PRACTICES:

Avoid breathing vapor. Avoid contact with skin and eyes.

OTHER EQUIPMENT:

Wash hands after handling.

Make safety shower, eyewash stations, and hand washing equipment available in the work area.

Section 9: Physical and Chemical Properties

	PRODUCT CRITERIA
APPEARANCE - COLOR:	Dark Amber
PHYSICAL STATE:	Liquid
ODOR:	Aromatic hydrocarbon
ODOR THRESHOLD	No data available
PH	Not applicable
MELTING POINT/FREEZING POINT:	No data available
INITIAL BOILING POINT AND BOILING RANGE:	No data available
FLASH POINT:	56.6°C (134°F)
EVAPORATION RATE:	No data available
FLAMMABILITY (Solid, gas)	No data available
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Not Measured
VAPOR PRESSURE	No data available
VAPOR DENSITY (AIR = 1)	No data available
SPECIFIC GRAVITY (@15°C):	0.929
SOLUBILITY(IES)	Nil
OXIDIZING PROPERTIES	No data available



PARTITION COEFFICIENT: n-octanol/water	No data available
AUTO IGNITION TEMPERATURE	No data available
DECOMPOSITION TEMPERATURE	No data available
VISCOSITY (@40°C)	7.54 cSt
VISCOSITY (@20°C)	12.28 cSt

Section 10: Stability and Reactivity

Reactivity:	Not reactive.
Chemical Stability:	Stable
Possibility of Hazardous Reactions:	Avoid contact with strong oxidizing agents, such as nitric and sulfuric acids, halogens, hydrogen peroxide and chlorinating agents. May burn or react violently with fluorine/oxygen mixtures with 50-100% fluorine. Decomposes with heat.
Conditions to Avoid:	Sources of ignition and temperatures above 50°C (122°F) - 60°C (140°F).
Incompatibility (Materials to Avoid):	Strong oxidizers. Fluorine/oxygen mixtures.
Hazardous Decomposition Products:	In the case of fire, a complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide, smoke and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

Section 11: Toxicological Information

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity	LC50(inhalation/Rat):	2.18 mg/L	Category 4	Petroleum Base Oil & Additives
		593-1319ppm 4 hr.	Category 3	Petroleum Lubricant & Proprietary Ingredient
	LD50(Oral/Rat):	1.120 mg/kg	Category 4	Petroleum Lubricant & Proprietary Ingredient
	LD50(Oral/Rat):	2210 mg/kg	Category 5	Benzene, 1,2,4-Trimethylbenzene
	LD50(Oral/Rat):	2600 mg/kg		Naphthalene
	LD50(Oral/Rat):	10 ml/kg		Solvent Naphtha (petroleum), light aromatic
Skin Corrosion/Irritation		Mild irritation	Category 3	Petroleum Base Oil & Additives
Serious Eye Damage / Eye Irritation		Mild irritation	Category 2B	Petroleum Base Oil & Additives
		Serious eye damage/irritation	Category 1, 2A	Petroleum Lubricant & Proprietary Ingredient
Respiratory or Skin Sensitization		May cause sensitization	Category 1	Petroleum Lubricant & Proprietary Ingredient
Germ Cell Mutagenicity		Suspected of causing genetic defects	Category 2	Petroleum Base Oil & Additives
Carcinogenicity	NTP			
	IARC	May cause cancer	Category 1A	Petroleum Base Oil & Additives
	OSHA			
Reproductive Toxicity	Suspected of damaging fertility or the unborn child		Category 2	Petroleum Lubricant & Proprietary Ingredient
STOT -- Single Exposure	May cause damage to organs (lung)		Category 3	Petroleum Base Oil & Additives
	Causes damage to organs (blood system, urinary organs)		Category 1	Petroleum Lubricant & Proprietary Ingredient
	Causes damage to organs (respiratory system)		Category 1	Petroleum Lubricant & Proprietary Ingredient
	May cause drowsiness or dizziness (respiratory tract irritation, narcotic effects).		Category 3	Benzene, 1,2,4-Trimethylbenzene
STOT – Repeated Exposure	Causes damage to organs through prolonged exposure (lung, skin)		Category 1	Petroleum Base Oil & Additives
	Cause damage to organs through prolonged or repeated exposure (cardiovascular system, blood, urinary bladder, kidney)		Category 1	Petroleum Lubricant & Proprietary Ingredient
	Cause damage to organs through prolonged or repeated		Category 1	Petroleum Lubricant &



	exposure (respiratory system)		Proprietary Ingredient
	May cause damage to organs through prolonged or repeated exposure (central nervous system, lung)	Category 1	Benzene, 1,2,4-Trimethylbenzene
Aspiration Hazard	May be fatal if swallowed and enters airways	Category 1	Petroleum Base Oil & Additives

STOT = Specific Target Organ Toxicity

Section 12: Ecological Information

		Chemical Constituent
Toxicity:	Contains a substance which causes risk of hazardous effects to the environment	Petroleum Lubricant & Proprietary Ingredient
Acute	72 hours ErC50=360microg/L of the algae (Green Algae)	Petroleum Lubricant & Proprietary Ingredient
Long-term	Does not rapidly degrade	Petroleum Lubricant & Proprietary Ingredient
Acute	48 hours EC50=6.14mg/L of the crustacea (Daphnia magna)	Benzene, 1,2,4-Trimethylbenzene
	Trout 24 hours 145mg/L	2-Ethylhexyl Nitrate
	Trout 48 hours 116 mg/L	2-Ethylhexyl Nitrate
	Bluegill 96 hours 4.5 mg/L	2-Ethylhexyl Nitrate
	Bluegill 72 hours 5.4 mg/L	2-Ethylhexyl Nitrate
	Bluegill 48 hours 6 mg/L	2-Ethylhexyl Nitrate
Persistence and degradability:	No information is available.	
Bioaccumulative potential	No information is available.	
Mobility in soil:	No information is available.	
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical assessment not required/not conducted	
Other adverse effects:	No information is available.	

Section 13: Disposal Considerations

Waste from residues/unused products: Do not dispose of to waste water treatment facilities. If discarded, this product is considered a RCRA hazardous waste. Follow the waste disposal requirements of your country, state, or local authorities.

Contaminated packaging: Contaminated packaging material should be disposed of as stated above for residues and unused product.

Rinsate: Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.

Section 14: Transport Information

ROAD TRANSPORT: DOT

UN NUMBER:	UN1993
DOT PROPER SHIPPING NAME	Flammable liquid n.o.s. (Naphtha (petroleum))
DOT / ADR HAZARD CLASS:	3
DOT / ADR PACKAGING GROUP:	III
DOT / ADR LABELS:	3
PLACARD:	FLAMMABLE

SEA TRANSPORT: IMDG

UN NUMBER SEA	UN1993
PROPER SHIPPING NAME	Flammable liquid n.o.s. (Naphtha (petroleum))
CLASS:	3
PACKING GROUP:	III
EmS No.:	F-D, S-U
MARINE POLLUTANT:	Yes
SEA TRANSPORT NOTES:	This material is a marine pollutant when shipped in quantities greater than 119 gallons. This material is not regulated for US DOT transportation in quantities less than 119 gallons.

AIR TRANSPORT: IATA/ICAO

UN NUMBER:	UN1993
PROPER SHIPPING NAME	Flammable liquid n.o.s. (Naphtha (petroleum))
HAZARD CLASS:	3
PACKAGING GROUP:	III
PACKAGING EXEMPTIONS:	



Section 15: Regulatory Information

TOXIC SUBSTANCE CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and orders of TSCA. All components are either listed on the TSCA inventory or are considered exempt.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: 1,2,4-Trimethylebenzene and Naphthalene
Section 311 hazardous chemical: Yes

CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: Cumene and Naphthalene

STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Florida Toxic Substance(s):	Not listed
Massachusetts's hazardous substance(s):	Not listed
Pennsylvania hazardous substance code(s):	1,2,4-Trimethylbenzene, Naphthalene
New Jersey	1,2,4-Trimethylbenzene, Naphthalene
Illinois	Not listed
Michigan	Not listed
Minnesota	Not listed

CANADA:

WHMIS-2015: This SDS is in compliance with WHMIS 2015 (HPR / new HPA).

EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures.

Section 16: Other Information

Initial issue date: August 7, 2015
Final revision date: August 14, 2015
Revision Number: 0
Revision explanation: Initial version
Information Sources: RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

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