Safety Data Sheet

Fuel System Treatment

SECTION 1. IDENTIFICATION

Product Identifier	Fuel System Treatment
Part number	89021535
Product Family	Solvent blend
Recommended Use	Fuel additive.
Restrictions on Use	Not applicable.
Supplier Identifier	AC Delco, 1908 Colonel Sam Drive, Oshawa, ON, L1H 8P7, 1.800.223.3526
Emergency Phone No.	CANUTEC, +1.613.996.6666, Operation hours: 24/7

SECTION 2. HAZARD IDENTIFICATION

Classification

Flammable liquid - Category 2; Skin irritation - Category 2; Eye irritation - Category 2A; Specific target organ toxicity (single exposure) - Category 3; Aspiration hazard - Category 1

Label Elements

Danger

Highly flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical, ventilating, and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing vapours.
Wash hands and skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation occurs: Get medical advice/attention.
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 eye irritation persists: Get medical advice/attention.
Call a POISON CENTRE or doctor if you feel unwell.
In case of fire: Use carbon dioxide, dry chemical powder to extinguish.
Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Store locked up.

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Isopropanol	67-63-0	15-40	
Distillates (petroleum), hydrotreated light	64742-47-8	10-30	
Stoddard solvent	8052-41-3	10-30	
Lubricating oils (petroleum), hydrotreated spent	64742-58-1	5-10	
Polyether amine	HMIRC Registry 8488	05-1.5	
n-Nonane	111-84-2	1-5	
Distillates (petroleum), sweetened middle	64741-86-2	1-5	
Ethylbenzene	100-41-4	0.1-1.0	
Xylene (mixed isomers)	1330-20-7	0.1-1.0	
Solvent naphtha	64742-94-5	0.1-1.0	
Amides, coco, Ú,Ú-bis(hydroxyethyl)	68603-42-9	0.1-1.0	
Naphthalene	91-20-3	0.1-1.0	
1,2,4-Trimethylbenzene	95-63-6	0.1-1.0	

Notes

Polyether amine - HMiRC Registry # 8488

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove person to fresh air and keep comfortable for breathing.
If breathing has stopped, trained personnel should begin rescue breathing. Immediately call a Poison Centre or doctor.

Skin Contact

Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a Poison Centre or doctor.

Ingestion

Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again.

Seek medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Small fire: carbon dioxide or dry chemical. Use water to keep non-leaking, fire-exposed containers cool.

Unsuitable Extinguishing Media

Do not use a direct stream of water.

Specific Hazards Arising from the Product

Extremely flammable liquid and vapour. Can ignite at room temperature. Releases vapour that can form explosive mixture with air. Vapours are heavier than air. May travel a considerable distance to a source of ignition and flash back to a leak or open container.
Carbon oxides, hydrocarbons, fumes and smoke.

Special Protective Equipment and Precautions for Fire-fighters

Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Eliminate all ignition sources. Use grounded, explosion-proof equipment. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, if ventilation is not sufficient. Distant ignition and flashback are possible.

Environmental Precautions

If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas. Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Only use where there is adequate ventilation. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Do NOT smoke in work areas. Containers of this material may contain hazardous residues when "emptied". Do not weld, cut or perform hot work on empty container until all traces of product have been removed.

Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated. Store at temperatures not exceeding: 35°C. Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this safety data sheet.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACGIH® TLV®		OSHA PEL	
Chemical Name	**TWA**	**STEL [C]**	**TWA**	**Ceiling**
Ethylbenzene	20 ppm A3	Not established	100 ppm	Not established
2,2-iminodiethanol	1 mg/m3 A3	Not established	15 mg/m3	Not established
n-Nonane	200 ppm	Not established	Not established	Not established

2,6-Di-tert-butyl-p-cresol	2 mg/m3 A4	Not established	10 mg/m3	Not established
Xylene (mixed isomers)	100 ppm A4	150 ppm A4	435 mg/m3	Not established
Glycerine	Not established	Not established	5 mg/m3 (R)	Not established
Distillates (petroleum), hydrotreated light	200 mg/m3 A3	Not established	Not established	Not established
Isopropanol	200 ppm A4	400 ppm	980000 mg/m3	Not established
Stoddard solvent	100 ppm	Not established	Not established	Not established
Naphthalene	10 ppm	15 ppm	10 ppm	Not established
1,2,4-Trimethylbenzene	25 ppm	Not established	Not established	Not established

Appropriate Engineering Controls

Sufficient mechanical ventilation to maintain exposures below the TLV. Under normal conditions of use, general ventilation should be satisfactory. Local ventilation is recommended if the product is misted or used in a confined space or if the TLV is exceeded. Make up air should always be supplied to balance air exhausted.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles. Contact lenses should not be worn, they may contribute to the severity of the injury.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.
Suitable materials are: chemical resistant materials.

Respiratory Protection

Not normally required if product is used as directed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear yellow liquid.
Odour	Alcoholic
Odour Threshold	Not available
pH	Not applicable
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	14 ºC (closed cup)
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	12% (upper); 2% (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	> 1
Relative Density (water = 1)	0.801 at 15 ºC
Solubility	Negligible in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	1.23 centistokes at 40°C (kinematic)

Other Information

VOC %	90

Flame projection	Not applicable
NFPA Classification	Flammable liquid, Class IB

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Stable at ambient temperatures and pressures.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

Increased risk of fire and explosion on contact with: strong oxidizing agents (e.g. perchloric acid).

Hazardous Decomposition Products

Carbon oxides. Fumes and smoke may be generated.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified. Reports have associated repeated and prolonged occupational overexposure to various organic solvents with internal organ, brain and nervous system damage.

Likely Routes of Exposure

Inhalation.
Skin contact.
Eye contact.
Ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Ethylbenzene	~ 4000 ppm (rat) (4-hour exposure)	3500 mg/kg (rat)	15380 mg/kg (rabbit)
2,2-iminodiethanol	> 0.4 ppm (rat) (6-hour)	680 mg/kg (female rat)	8180 mg/kg (rabbit)
n-Nonane	3200 ppm (rat) (4-hour exposure)	> 15000 mg/kg (rat)	Not available
2,6-Di-tert-butyl-p-cresol	Not applicable	> 2930 mg/kg (rat)	> 2000 mg/kg (rabbit)
Xylene (mixed isomers)	6350 ppm (male rat) (4-hour exposure)	3523 mg/kg (rat)	> 1700 mg/kg (rabbit)
Glycerine	> 143 mg/m3 (rat) (4-hour exposure)	27200 mg/kg (female rat)	23000 mg/kg (rabbit)
Isopropanol	17000 ppm (rat) (4-hour exposure)	4720 mg/kg (male rat)	12890 mg/kg (rabbit)
Amides, coco, Ú, Ú-bis(hydroxyethyl)	Not available	12200 mg/kg (rat)	> 2000 mg/kg (rabbit)
Stoddard solvent	> 5500 mg/m3 (rat) (4-hour exposure)	> 5000 mg/kg (rat)	> 3000 mg/kg (rabbit)
Naphthalene	141 ppm (rat) (4-hour exposure)	490 mg/kg (rat)	> 20000 mg/kg (rabbit)
1,2,4-Trimethylbenzene	18000 mg/m3 (rat) (4-hour	5000 mg/kg (rat)	Not available

	exposure)		

37% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (inhalation)

36% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (oral)

31% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (dermal)

Skin Corrosion/Irritation

Human experience and animal tests show moderate or severe irritation.

Serious Eye Damage/Irritation

Mild to moderate irritant.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Excessive exposures may cause irritation to eyes, nose, throat, lungs, respiratory tract, central nervous system depression, headache, nausea and dizziness.

Skin Absorption

No information was located.

Ingestion

Ingestion of small amounts during normal handling is not likely to cause injury.
If large amounts are swallowed irritation of the mouth, throat and stomach.

Aspiration Hazard

Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause irritation of the respiratory system. May cause respiratory tract injury. Following skin contact: symptoms may include dry, red, cracked skin (dermatitis).

Respiratory and/or Skin Sensitization

No information was located for respiratory sensitization.
No information was located for skin sensitization.

Carcinogenicity

Chemical Name	ACGIH®	IARC	NTP	OSHA
Ethylbenzene	A3	Group 2B	Not Listed	Not Listed
2,2-iminodiethanol	A3	Group 2B	Not Listed	Not Listed
2,6-Di-tert-butyl-p-cresol	A4	Group 3	Not Listed	Not Listed
Xylene (mixed isomers)	A4	Group 3	Not Listed	Not Listed
Glycerine	Not Listed	Not Listed	Not Listed	Not Listed
Distillates (petroleum), hydrotreated light	A3	Group 3	Not Listed	Not Listed
Isopropanol	A4	Group 3	Not Listed	Not Listed
Naphthalene	A4	Group 2B	Reasonably anticipated	Not Listed

Contains. (Ethylbenzene) which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) contains. (2,2-iminodiethanol) which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) contains. (Naphthalene) which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans).

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. A3 = Animal carcinogen. A4 = Not classifiable as a human carcinogen.
IARC = International Agency for Research on Cancer. Group 2B = Possibly carcinogenic to humans. Group 3 = Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity

Development of Offspring

Contains a component that contains xylene, which is reported to be fetotoxic.

No information was located for: Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS.
This section is not required by OSHA HCS 2012.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

The container for this product can present explosion or fire hazards, even when emptied. Do not cut, puncture, or weld on or near this container. This product and its container must be disposed of as hazardous waste. Do NOT dump into any sewers, on the ground or into any body of water. Dispose of in accordance with municipal, provincial/state or federal regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1993	Flammable liquid, n.o.s. (Stoddard solvent, isopropanol)	3	II
IMDG (Marine)	UN1993	Flammable liquid, n.o.s. (Stoddard solvent, isopropanol)	3	II
IATA (Air)	UN1993	Flammable liquid, n.o.s. (Stoddard solvent, isopropanol)	3	II

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Emergency Response Guide No. 128 EmS F-E, S-E

Other Information ICAO/IATA PI Y341/353/364
Product may ship as LTD QTY if TDG, ICAO/IATA or IMDG Limited Quantity provisions are met.

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

CEPA - National Pollutant Release Inventory (NPRI)

(Ethylbenzene) Part 1A.
(2,2-iminodiethanol) Part 1A.
(2,6-Di-tert-butyl-p-cresol) Part 1A.
(Xylene (mixed isomers)) Part 1A.
(Distillates (petroleum), hydrotreated light) Part 5.
(Solvent naphtha) Part 5. (Isopropanol) Part 5.
(Stoddard solvent) Part 5.
(Naphthalene) Part 1A.

(1,2,4-Trimethylbenzene) Part 1A.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

CERCLA. (Ethylbenzene). (2,2-iminodiethanol). (Xylene (mixed isomers)). (Naphthalene)
SARA Title III - Section 302: Not applicable.
SARA Title III - Section 313. (Ethylbenzene). (2,2-iminodiethanol). (Xylene (mixed isomers)). (Naphthalene). (1,2,4-Trimethylbenzene)
California Proposition 65. (Ethylbenzene). (Naphthalene)
Massachusetts Right To Know: Not applicable.
New Jersey Right To Know. (Ethylbenzene). (2,2-iminodiethanol). (n-Nonane). (2,6-Di-tert-butyl-p-cresol). (Xylene (mixed isomers)). (Glycerine). (Isopropanol). (Stoddard solvent). (Naphthalene). (1,2,4-Trimethylbenzene)
Pennsylvania Right To Know. (Ethylbenzene). (2,2-iminodiethanol). (n-Nonane). (2,6-Di-tert-butyl-p-cresol). (Xylene (mixed isomers)). (Glycerine). (Isopropanol). (Stoddard solvent). (Naphthalene). (Polyether amine)

SECTION 16. OTHER INFORMATION

NFPA Rating	**Health - 2** **Flammability - 3** **Instability - 0** **Based on** Isopropanol
SDS Prepared By	Regulatory Compliance
Phone No.	905.847.0222
Date of Preparation	February 02, 2016
Key to Abbreviations	ACGIH® = American Conference of Governmental Industrial Hygienists CANUTEC = Canadian Transportation Emergency Centre CAS = Chemical Abstract Services CCOHS = Canadian Centre for Occupational Health & Safety CNS = Central nervous system GESTIS Substance Database HSDB® = Hazardous Substances Data Bank IARC = International Agency for Research on Cancer ICAO = International Civil Aviation Organization IMDG = International Maritime Dangerous Goods Code LC = Lethal concentration LD = Lethal dose NFPA = National Fire Prevention Association NIOSH = National Institute for Occupational Safety and Health NTP = National Toxicology Program OSHA = US Occupational Safety and Health Administration PPM = Parts per million RTECS® = Registry of Toxic Effects of Chemical Substances TDG = Transportation of Dangerous Goods Regulations (Canada) TWA = Time weighted average
References	Material Safety Data Sheet from manufacturer. CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA (“BIOVIA”). Available from Canadian Centre for Occupational Health and Safety (CCOHS). ECHA - European Chemical Agency, Classification and Labelling Inventory GESTIS Substance Database OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.
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