

Material Safety Data Sheet

CS: 1.4.46

Page: 1 of 5

Infosafe No™ LPYAE

Issue Date : July 2009

ISSUED by ACDELCO

Product Name : **ACDELCO FUEL SYSTEM CLEANER**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name ACDELCO FUEL SYSTEM CLEANER
Product Code 88901983
Company Name ACDELCO
Address 91 Salmon Street Port Melbourne Melbourne
VIC 3207 Australia
Emergency Tel. 03 9797 7340
Telephone/Fax Number Tel: 03 9797 7341 (Mon-Fri 9-5)
Recommended Use Helps to reduce and remove contaminants from the fuel system.

2. HAZARDS IDENTIFICATION

Hazard Classification HAZARDOUS SUBSTANCE.
DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.

Risk Phrase(s) R11 Highly flammable.
R36 Irritating to eyes.
R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness

Safety Phrase(s) S16 Keep away from sources of ignition - No smoking.
S23(2) Do not breathe vapour.
S25 Avoid contact with eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33 Take precautionary measures against static discharges.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S9 Keep container in a well ventilated place.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	2-Propanol	67-63-0	30-60 %
	White spirit	8052-41-3	30-60 %
	Ingredients determined not to be hazardous.		Balance

4. FIRST AID MEASURES

Inhalation If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.

Ingestion Do NOT induce vomiting. Wash out mouth and lips with water. If symptoms develop or persist seek medical attention.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If symptoms persist seek medical attention.

Eye If in eyes, immediately hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed off completely. Seek medical attention.

First Aid Facilities Eye wash station, and normal washroom facilities.

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide, alcohol foam, water fog, dry chemical.

Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

Material Safety Data Sheet

CS: 1.4.46

Page: 2 of 5

Infosafe No™ LPYAE Issue Date : July 2009 ISSUED by ACDELCO

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Specific Hazards Highly flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

Hazchem Code 3[Y]E

Precautions in connection with Fire Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode. Water spray may be used to keep fire exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye exposure. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Work from suitable, labelled, fire-resistant containers. Open containers carefully as they may be under pressure. Keep containers closed when not in use. Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges. Earth or bond all equipment. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Temperatures should not exceed 35°C. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all applicable local and national regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standards have been established for this material by the Australian National Occupational Health & Safety Commission (NOHSC), however, the available exposure limits on the ingredients as provided by NOHSC are as follows:

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
White spirits	-	790	-	-
Isopropanol	400	983	500	1230

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

Biological Limit Values No biological limit available

Engineering Controls Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.

Material Safety Data Sheet

CS: 1.4.46

Page: 3 of 5

Infosafe No™ LPYAE	Issue Date : July 2009	ISSUED by ACDELCO
--------------------	------------------------	-------------------

Product Name : **ACDELCO FUEL SYSTEM CLEANER**

Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
Eye Protection	Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection	Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow
Odour	Alcohol odour
Melting Point	Not available
Boiling Point	83°C
Solubility in Water	Insoluble
Specific Gravity	0.79 at 15°C
pH Value	Not available
Vapour Pressure	Not available
Vapour Density (Air=1)	>1
Evaporation Rate	<1
Volatile Component	100%
Flash Point	13°C (TCC)
Flammability	Highly flammable
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	2.0%
Flammable Limits - Upper	12.0%

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Heat, direct sunlight, open flames or other sources of ignition.
Incompatible Materials	Strong oxidisers, strong alkalis and strong mineral acids.
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide, carbon dioxide.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data are available for this specific product, however toxicity data for constituents are stated below:
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Material Safety Data Sheet

CS: 1.4.46

Page: 4 of 5

Infosafe No™ LPYAE Issue Date : July 2009 ISSUED by ACDELCO

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Inhalation	Isopropanol: LC50(Rat, Inh): 72600 mg/m3 May cause irritation to the mucous membrane and upper airways, especially where vapours or mists are generated. Vapours may cause drowsiness and dizziness.
Ingestion	Harmful: may cause lung damage if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause severe pulmonary injury that may lead to death. May cause irritation to the mouth, throat, esophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.
Skin	May be irritating to skin, which can result in redness and itching.
Eye	Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
Chronic Effects	Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic organisms. Isopropanol: LC50 (Fathead minnow): 61200 mg/L/96h
Persistence / Degradability	Not available
Mobility	Not available
Bioaccumulative Potential	May be bioaccumulative but no food chain concentration potential.
Environ. Protection	Prevent substance from entering the waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.
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14. TRANSPORT INFORMATION

Transport Information	This material is classified as a Class 3 (Flammable Liquids) Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 3 Dangerous Goods are incompatible in a placard load with any of the following: - Class 1, Explosives - Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk - Class 2.3, Toxic Gases - Class 4.2, Spontaneously Combustible Substances - Class 5.1, Oxidising Agents - Class 5.2, Organic Peroxides - Class 6, Toxic and Infectious Substances, if the Class 3 dangerous goods are nitromethane - Class 7, Radioactive Substances
U.N. Number	1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. - (contains Isopropanol and Stoddard Solvent)
DG Class	3
Hazchem Code	3[Y]E
Packaging Method	3.8.3RT1
Packing Group	II
EPG Number	3A1
IERG Number	14

15. REGULATORY INFORMATION

Material Safety Data Sheet

CS: 1.4.46

Page: 5 of 5

Infosafe No™ LPYAE	Issue Date : July 2009	ISSUED by ACDELCO
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Product Name : **ACDELCO FUEL SYSTEM CLEANER**

Regulatory Information	Classified as Hazardous according to criteria of the National Occupational Health & Safety Commission (NOHSC) Australia.
Poisons Schedule	Classified as a S5 Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP). S5
Hazard Category	Harmful, Irritant, Highly Flammable

16. OTHER INFORMATION

Date of preparation or last revision of MSDS Date created: July 2009
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