

SAFETY DATA SHEET – SMART BLEND TOTAL INTAKE SYSTEM CLEANER #17020

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name SMART BLEND TOTAL INTAKE SYSTEM CLEANER #17020

Recommended use of the chemical and restrictions on use

Product Type

Extremely flammable aerosol

Synonyms

None

Supplier's details

Recommended Use Uses advised against

Intake system and combustion chamber cleaner.

No information available

Manufacturer:

Life Automotive Products, Inc.
500 Industrial Park Drive
Selmer, TN 38375

Product Information

SDS Requests: (800) 264-6457 or +17316454972
Technical Information: (800) 264-6457 or +17316454972
General Information: vswedley@spectrumcorporation.com

Emergency telephone number

Emergency Response

North America: CHEMTREC (800) 424-9300 after 5:00pm CST Or +17035273887

Health Emergency

USA: (800) 264-6457 or +17316454972

2. HAZARDS IDENTIFICATION

Classification

Acute Toxicity - Oral	Category 4
Acute Toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Reproductive Toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Gases under pressure	Compressed Gas
Flammable aerosols	Category 1

**GHS Label elements, including
precautionary statements****Emergency Overview****DANGER****Hazard Statements**

Harmful if swallowed
 Harmful in contact with skin
 Harmful if inhaled
 Causes skin irritation
 Causes serious eye irritation
 May damage fertility or the unborn child
 May cause respiratory irritation. May cause drowsiness or dizziness
 Contains gas under pressure; may explode if heated
 Extremely flammable aerosol

**Appearance** Clear**Physical state** Aerosol**Odor** Solvent**Precautionary Statements - Prevention**

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Wear protective gloves/protective clothing/eye protection/face protection
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Do not spray on an open flame or other ignition source
 Pressurized container: Do not pierce or burn, even after use

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention
 Specific treatment (see first aid on this label)
 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

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IF ON SKIN: Wash with plenty of soap and water.
Call a POISON CENTER or doctor/physician if you feel unwell
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None

Other information

• Harmful to aquatic life with long lasting effects

6.00909% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
DIMETHYLETHER	115-10-6	60-70
ACETONITRILE	75-05-8	1-10
N-METHYL-2-PYRROLIDINONE	872-50-4	1-10
MONOISOPROPYLAMINE	75-31-0	1-10

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Artificial respiration and/or oxygen may be necessary. If breathing has stopped, contact emergency medical services immediately.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Most important symptoms/effects, acute and delayed

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Main Symptoms Harmful if swallowed and in contact with skin . Causes skin and eye irritation. Irritating to respiratory system. May cause drowsiness or dizziness. May damage to fertility or the unborn child.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

Specific hazards arising from the chemical

Extremely flammable.

Explosion Data

Sensitivity to Mechanical Impact none.

Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Absorb with sand ,clay, or other suitable material. Hard surfaces may be mopped with water. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Stop leak if you can do it without risk. Contents under pressure. Do not puncture or incinerate cans. Wear protective gloves/clothing and eye/face protection.

Environmental precautions

Environmental precautions

Do not flush into surface water or sanitary sewer system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Do not allow material to contaminate ground water system. Prevent entry into waterways, sewers, basements or confined areas.

Methods and materials for containment and cleaning up

Methods for Containment

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Soak up with inert absorbent material. Take precautionary measures against static discharges. Use personal protective equipment.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. Do not smoke. Ensure adequate ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

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Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Keep away from heat and sources of ignition. Keep in a dry place. Keep in properly labeled containers. Keep container tightly closed. Keep away from heat. Keep out of the reach of children.

Incompatible products Strong oxidizing agents.

Aerosol Level 2

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ACETONITRILE 75-05-8	TWA: 20 ppm Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 40 ppm TWA: 70 mg/m ³ TWA: 5 mg/m ³ CN (vacated) TWA: 40 ppm (vacated) TWA: 70 mg/m ³ (vacated) TWA: 5 mg/m ³ (vacated) STEL: 60 ppm (vacated) STEL: 105 mg/m ³ S*	IDLH: 500 ppm IDLH: 25 mg/m ³ CN TWA: 20 ppm TWA: 34 mg/m ³
MONOISOPROPYLAMINE 75-31-0	STEL: 10 ppm TWA: 5 ppm	TWA: 5 ppm TWA: 12 mg/m ³ (vacated) TWA: 5 ppm (vacated) TWA: 12 mg/m ³ (vacated) STEL: 10 ppm (vacated) STEL: 24 mg/m ³	IDLH: 750 ppm

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration)

NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Exposure controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields.

Skin and body protection Chemical resistant apron. Protective gloves.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

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Physical state	Aerosol	Odor	Solvent
Appearance	Clear	Odor Threshold	No information available
Color	Light Amber		
Property	Values	Remarks • Methods	
pH	No information available		
Melting/freezing point	No information available		
Boiling point/boiling range	No information available		
Flash Point	-41 °C / -42 °F	Based on propellant	
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limits in Air			
upper flammability limit	No information available		
lower flammability limit	No information available		
Vapor pressure	No information available		
Vapor density	No information available		
Specific Gravity	0.780		
Water solubility	Practically insoluble		
Partition coefficient: n-octanol/water	No information available	Not applicable	
Autoignition temperature	No information available		
Decomposition temperature	No information available		
Viscosity	No information available		
Explosive properties	No information available		
Other information			
VOC Content(%)	78.97		

10. STABILITY AND REACTIVITY

Reactivity

Stable under recommended storage conditions No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Keep away from children. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation

Harmful by inhalation. Avoid breathing vapors or mists. Inhalation of vapors in high concentration may cause irritation of respiratory system. May cause drowsiness or dizziness.

Eye contact

Irritating to eyes. Avoid contact with eyes.

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Skin contact Avoid contact with skin. Irritating to skin. Harmful in contact with skin. Prolonged skin contact may defat the skin and produce dermatitis.

Ingestion Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
DIMETHYLETHER 115-10-6	-	-	= 308.5 mg/L (Rat) 4 h
ACETONITRILE 75-05-8	= 2460 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	= 26.8 mg/L (Rat) 4 h
N-METHYL-2-PYRROLIDINONE 872-50-4	= 3598 mg/kg (Rat)	= 8 g/kg (Rabbit)	= 3.1 mg/L (Rat) 4 h
MONOISOPROPYLAMINE 75-31-0	= 111 mg/kg (Rat)	= 382 mg/kg (Rat)	= 4000 ppm (Rat) 4 h

Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Irritating to respiratory system. Causes serious eye damage. Irritating to skin. Prolonged or repeated exposure may cause dermatitis.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Irritating to skin.
Eye damage/irritation Irritating to eyes.
Sensitization None known.
Germ Cell Mutagenicity None known.
Carcinogenicity There are no known carcinogenic chemicals in this product.
Reproductive toxicity May impair fertility. May cause harm to the unborn child.
Specific target organ systemic toxicity (single exposure) May cause respiratory irritation. May cause drowsiness and dizziness.
Specific target organ systemic toxicity (repeated exposure) No information available.

Chronic toxicity May cause adverse liver effects.
Target Organ Effects Central nervous system, Central Vascular System (CVS), Kidney, Liver, Respiratory system, Eyes, Skin.

Aspiration hazard Not applicable.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 6.00909% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 1805 mg/kg
ATEmix (dermal) 6348 mg/kg
ATEmix (inhalation-dust/mist) 14.4 mg/l
ATEmix (inhalation-vapor) 93101 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
ACETONITRILE 75-05-8	-	1600 - 1690 mg/L LC50 Pimephales promelas 96h flow-through 1000 mg/L LC50 Pimephales promelas 96h static 1650 mg/L LC50 Poecilia reticulata 96h static 1850 mg/L LC50 Lepomis macrochirus 96h static	-	-

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N-METHYL-2-PYRROLIDIN ONE 872-50-4	500 mg/L EC50 Desmodemus subspicatus 72h	1072 mg/L LC50 Pimephales promelas 96h static 1400 mg/L LC50 Poecilia reticulata 96h static 832 mg/L LC50 Lepomis macrochirus 96h static	-	4897 mg/L EC50 Daphnia magna 48h
MONOISOPROPYLAMINE 75-31-0	4.13 mg/L EC50 Desmodemus subspicatus 72h 1.2 mg/L EC50 Desmodemus subspicatus 96h 62.5 mg/L EC50 Pseudokirchneriella subcapitata 96h	310 mg/L LC50 Pimephales promelas 96h	-	20.8 mg/L EC50 Daphnia magna 48h

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	log Pow
DIMETHYLETHER 115-10-6	-0.18
ACETONITRILE 75-05-8	-0.34
N-METHYL-2-PYRROLIDINONE	-0.46
MONOISOPROPYLAMINE E 75-31-0	0.26

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated packaging

Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Ground

CONSUMER COMMODITY ORM-D
or
LIMITED QUANTITY

IATA

UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD. QTY.

IMDG

UN1950, AEROSOLS, 2.1, LTD. QTY.

15. REGULATORY INFORMATION

International Inventories

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Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
DIMETHYLETHER	X	X	X	X	X	X	X	X
ACETONITRILE	X	X	X	X	X	X	X	X
N-METHYL-2-PYRRO LIDINONE	X	X	X	X	X	X	X	X
MONOISOPROPYLA MINE	X	X	X	X	X	X	X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
CHINA - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %*	SARA 313 - Threshold Values %
ACETONITRILE - 75-05-8	75-05-8	1-10	1.0
N-METHYL-2-PYRROLIDINONE - 872-50-4	872-50-4	1-10	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	no

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
ACETONITRILE 75-05-8		X	X	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
ACETONITRILE 75-05-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
N-METHYL-2-PYRROLIDINONE - 872-50-4	Developmental

U.S. State Right-to-Know Regulations

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Chemical Name	New Jersey	Massachusetts	Pennsylvania
DIMETHYLETHER 115-10-6	X	X	X
ACETONITRILE 75-05-8	X	X	X
N-METHYL-2-PYRROLIDINONE 872-50-4	X	X	X
MONOISOPROPYLAMINE 75-31-0	X	X	X

EPA Pesticide Registration Number Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.



16. OTHER INFORMATION

<u>NFPA</u>	Health Hazard 2	Flammability 4	Instability 0	Physical and chemical hazards -
<u>HMIS</u>	Health Hazard 2	Flammability 4	Physical Hazard 1	Personal protection B

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 No information available

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet