Safety Data Sheet

Engine Shampoo

SECTION 1. IDENTIFICATION

Product Identifier	Engine Shampoo
Part number	RSES20L
Product Family	Blend of petroleum based solvents and detergents
Recommended Use	Degreaser.
Restrictions on Use	None known.
Supplier Identifier	Red Stallion, 395 Passmore Avenue, Toronto, ON, M1V 4B3, 416. 321.9980
Emergency Phone No.	CANUTEC, +1.613.996.6666, Operation hours: 24/7

SECTION 2. HAZARD IDENTIFICATION

Classification

Flammable liquid - Category 3; Skin irritation - Category 2; Serious eye damage - Category 1; Aspiration hazard - Category 1

Label Elements

Danger

Flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye damage.

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, lighting, and other equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash hands and skin thoroughly after handling.
Wear protective gloves/eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
Do NOT induce vomiting.
Immediately call a POISON CENTRE or doctor.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of fire: Use carbon dioxide, dry chemical powder to extinguish.

Store in a well-ventilated place. 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
Tall oil, fatty acids	61790-12-3	10-30	
Solvent naphtha (petroleum), light aromatic	64742-94-5	10-30	
Stoddard solvent	8052-41-3	10-30	
1,2,4-Trimethylbenzene	95-63-6	7-13	
Ethylene glycol	107-21-1	1-5	
1,3,5-Trimethylbenzene	108-67-8	1-5	
Alcohols, C9-11, ethoxylated, liquids	68439-46-3	1-5	
Ethylbenzene	100-41-4	0.1-1.0	
n-Nonane	111-84-2	0.5-1.5	
Potassium hydroxide	1310-58-3	0.1-1.0	
Xylene (mixed isomers)	1330-20-7	0.5-1.5	
2-aminoethanol	141-43-5	0.1-1.0	
Diethylbenzene	25340-17-4	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	
Cumene	98-82-8	0.1-1.0	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. If breathing has stopped, trained personnel should begin rescue breathing. Get medical attention immediately.

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.
Get immediate medical attention.

Ingestion

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

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide or dry chemical.

Unsuitable Extinguishing Media

Do not use a direct stream of water.

Specific Hazards Arising from the Product

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, and other unidentified organic compounds.

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. 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

Stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Contaminated absorbent poses the same hazard as the 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. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Only use where there is adequate ventilation. 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 at temperatures not exceeding: 40°C.
Store in an area that is: cool, dry, well-ventilated.
Keep from freezing.

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
Ethylene glycol	Not established	100 mg/m3 A4	Not established	50 ppm
1,3,5-Trimethylbenzene	25 ppm	Not established	Not established	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
Xylene (mixed isomers)	100 ppm A4	150 ppm A4	435 mg/m3	Not established
2-aminoethanol	3 ppm	6 ppm		
Glycerine	Not established	Not established	5 mg/m3 (R)	Not established
Alcohols, C9-11, ethoxylated, liquids	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
Cumene	50 ppm	Not established	50 ppm	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.
Provide safety shower in work area, if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Safety glasses with side shields. 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: neoprene rubber, nitrile rubber.

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	Not available
Odour Threshold	Not available
pH	9.9 (10% solution)
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	49 °C (closed cup)
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	> 1
Relative Density (water = 1)	0.88 at 15 °C
Solubility	Partial in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	< 14 centistokes at 40°C (kinematic)

Other Information

VOC %	66.2
Flame projection	Not applicable
NFPA Classification	Combustible liquid, Class II

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. And other unidentified organic compounds.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

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)
Ethylene glycol	2725 mg/m3 (rat) (4-hour exposure)	4700 mg/kg (rat)	10600 mg/kg (rabbit)
1,3,5-Trimethylbenzene	24000 mg/m3 (rat) (4-hour exposure)	Not available	Not available
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
Potassium hydroxide	Not available	250 mg/kg (rat)	> 1260 mg/kg (rabbit)
Xylene (mixed isomers)	6350 ppm (male rat) (4-hour exposure)	3523 mg/kg (rat)	> 1700 mg/kg (rabbit)
2-aminoethanol	> 1210 mg/m3 (mouse) (4-hour exposure)	1720 mg/kg (female rat)	1000 mg/kg (rabbit)
Diethylbenzene	> 30000 mg/m3 (mouse)	1200 mg/kg (rat)	> 5000 mg/kg (rabbit)
Glycerine	> 143 mg/m3 (rat) (4-hour exposure)	27200 mg/kg (female rat)	23000 mg/kg (rabbit)
Solvent naphtha (petroleum), light aromatic	> 14.4 mg/L (rat) (6-hour)	8400 mg/kg (rat)	> 3160 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 exposure)	5000 mg/kg (rat)	Not available
Cumene	39 mg/L (rat) (4-hour exposure)	1400 mg/kg (rat)	10627 mg/kg (rabbit)

19% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (inhalation)

20% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (oral)

34% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (dermal)

Skin Corrosion/Irritation

Moderate skin irritant.

Serious Eye Damage/Irritation

Moderate irritant.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

No hazard under normal conditions of use.
At high concentrations depression of the central nervous system, nose and throat irritation. Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

Skin Absorption

No information was located.

Ingestion

Harmful based on information for closely related materials. Can cause effects as described for inhalation.

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

No information was located.

Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer.
Not known to be a skin sensitizer.

Carcinogenicity

Chemical Name	ACGIH®	IARC	NTP	OSHA
Ethylbenzene	A3	Group 2B	Not Listed	Not Listed
Ethylene glycol	Not designated	Not evaluated	Not Listed	Not Listed
2,2-iminodiethanol	A3	Group 2B	Not Listed	Not Listed
Potassium hydroxide	Not designated	Not evaluated	Not Listed	
Xylene (mixed isomers)	A4	Group 3	Not Listed	Not Listed
Glycerine	Not Listed	Not Listed	Not Listed	Not Listed
Solvent naphtha (petroleum), light aromatic	Not Listed	Not evaluated	Not Listed	Not Listed
Naphthalene	A4	Group 2B	Reasonably anticipated	Not Listed
Cumene	Not designated	Group 2B	Not Listed	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) contains. (Cumene) 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.
NTP = National Toxicology Program. Reasonably anticipated = Reasonably anticipated human carcinogen.

No information was located for: Development of Offspring, 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

Empty containers retain product residue. Follow label warnings even if container appears to be empty. 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. 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	UN1268	Petroleum products, n.o.s.	3	III
IMDG (Marine)	UN1268	Petroleum products, n.o.s.	3	III
IATA (Air)	UN1268	Petroleum products, n.o.s.	3	III

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 Y344/355/366
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.
(Ethylene glycol) Part 1A.
(2,2-iminodiethanol) Part 1A.
(Xylene (mixed isomers)) Part 1A.

(Solvent naphtha (petroleum), light aromatic) Part 5.
(Stoddard solvent) Part 5.
(Naphthalene) Part 1A.
(1,2,4-Trimethylbenzene) Part 1A.
(Cumene) 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). (Ethylene glycol). (2,2-iminodiethanol). (Potassium hydroxide). (Xylene (mixed isomers)). (Naphthalene). (Cumene)
SARA Title III - Section 302:
SARA Title III - Section 313. (Ethylbenzene). (Ethylene glycol). (2,2-iminodiethanol). (Xylene (mixed isomers)). (Naphthalene). (1,2,4-Trimethylbenzene). (Cumene)
California Proposition 65. (Ethylbenzene). (Naphthalene)
Massachusetts Right To Know: Not applicable.
New Jersey Right To Know. (Ethylbenzene). (Ethylene glycol). (2,2-iminodiethanol). (n-Nonane). (Potassium hydroxide). (Xylene (mixed isomers)). (2-aminoethanol). (Diethylbenzene). (Glycerine). (Stoddard solvent). (Naphthalene). (1,2,4-Trimethylbenzene). (Cumene)
Pennsylvania Right To Know. (Ethylbenzene). (Ethylene glycol). (2,2-iminodiethanol). (n-Nonane). (Potassium hydroxide). (Xylene (mixed isomers)). (2-aminoethanol). (Glycerine). (Stoddard solvent). (Naphthalene). (1,2,4-Trimethylbenzene). (Cumene)

SECTION 16. OTHER INFORMATION

NFPA Rating	**Health - 2** **Flammability - 2** **Instability - 0**
SDS Prepared By	Regulatory Compliance
Phone No.	800.201.9486
Date of Preparation	December 13, 2016
Key to Abbreviations	ACGIH® = American Conference of Governmental Hygienists CANUTEC = Canadian Transport Emergency Centre CAS = Chemical Abstract Service CCOHS = Canadian Centre for Occupational Health & Safety CNS = Central nervous system GESTIS = 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 LC = Lethal dose NFPA = National Fire Protection Association NTP = National Toxicology Program OSHA = US Occupational Safety and Health Administration PPM = Parts per million RTECS® = Registry of Toxic Effects of Chemical Substances STEL = Short term exposure limit 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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