

SAFETY DATA SHEET



Shift Restore (formerly Transmission Stiction Eliminator)

Version 1.0

Revision Date 05/26/2020

Print Date 05/26/2020

1 PRODUCT AND COMPANY IDENTIFICATION

Product name : Shift Restore (formerly Transmission Stiction Eliminator)
Product code : HSSSR
Chemical Name : Ester

Manufacturer or supplier's details

Company : Lubrication Specialties, Inc.
Address : 255 Neal Ave.
Mount Gilead, Ohio 43338
Telephone : 1-800-341-6516
Telefax : 415-946-3554

Emergency telephone : USA: 24 Hour Emergency Response Information CHEMTREC
toll free: 1-800-424-9300; direct/international: 1-703-527-3887.
CANADA: Quantum Murray (spill response)1-877-378-7745.
CANADA: CANUTEC(collect) 1-613-996-6666. EUROPE: 00
32 3575 5555. ASIA PACIFIC - excl. China: +65 6542-9595.
CHINA: +86 21 2315 9344. AUSTRALIA: +61 2 9616 5890.
SOUTH AFRICA: +32 3 575 55 55. LATAM: 0800 720 8000.
1-613-996-6666. INDIA: +91 22 30948467/8. JAPAN: +65
6542 9595 (24時間 日本語対応無料通話, シンガポール)

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant
Prepared by : Product Safety Department
419-947-2647

2 HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Other hazards which do not result in classification

May irritate eyes.
May irritate skin.
May cause irritation of respiratory tract.
Ingestion may cause irritation to mucous membranes.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Pure substance

Hazardous ingredients

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No hazardous ingredients

4 FIRST AID MEASURES

- If inhaled : If breathed in, move person into fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
If eye irritation persists, consult a specialist.
- If swallowed : If symptoms persist, call a physician or Poison Control Center immediately.

5 FIRE FIGHTING MEASURES

Flammable properties

- Flash point : > 258 °C (> 496 °F)
Method: open cup
- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not use a solid water stream as it may scatter and spread fire.
Do not allow run-off from fire fighting to enter drains or water courses.
- Specific extinguishing methods : Standard procedure for chemical fires.
- Further information : Use water spray to cool unopened containers.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material.
Sweep up and shovel into suitable containers for disposal.

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7**HANDLING AND STORAGE**

- Advice on safe handling : Avoid contact with skin and eyes.
Handle in accordance with good industrial hygiene and safety practice.
- Conditions for safe storage : Store in original container.
Keep container tightly closed in a dry and well-ventilated place.
- Materials to avoid : No special restrictions on storage with other products.

8**EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection
Remarks : For prolonged or repeated contact use protective gloves.
- Eye protection : Safety glasses
- Skin and body protection : impervious clothing
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

9**PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- Color : light yellow
- Odor : mild
- pH : no data available
- Solidification point : -39 °C (-38 °F)
- pour point : -45 °C (-49 °F)
- Boiling point : > 250 °C (> 482 °F)
- Flash point : > 258 °C (> 496 °F) Method: open cup
- Vapor pressure : < 0.1 hPa (20 °C)
- Relative density : 0.94
- Solubility(ies)

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Water solubility : slightly soluble
Solubility in other solvents : Solvent: miscible with most organic solvents
Partition coefficient: n-octanol/water : log Pow: estimated > 3
Thermal decomposition : no data available
Viscosity
Viscosity, dynamic : < 500 mPa.s (-18 °C)
Viscosity, kinematic : 4.3 - 4.6 mm²/s (40 °C)

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STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
Conditions to avoid : None known.
Incompatible materials : Strong oxidizing agents
Hazardous decomposition products : Carbon monoxide
Carbon dioxide (CO₂)

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TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : LD50 rat: > 5,000 mg/kg
Remarks: Low acute toxicity.

Skin corrosion/irritation

Product:

Species: rabbit
Method: Draize Test
Remarks: Mild skin irritation

Serious eye damage/eye irritation

Product:

Species: rabbit
Method: Draize Test
Remarks: Mild eye irritation

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Respiratory or skin sensitization**Product:**

Species: guinea pig

Result: Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration toxicity

no data available

Further information**Product:**

Remarks: Information given is based on data on the ingredients and the toxicology of similar products.

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ECOLOGICAL INFORMATION**Ecotoxicity****Product:**Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 hNOEC (Daphnia magna (Water flea)): 1,000 mg/l
Exposure time: 48 hToxicity to algae : ErC50 (Scenedesmus capricornutum (fresh water algae)): > 1,000 mg/l
Exposure time: 72 hEbC50 (Scenedesmus capricornutum (fresh water algae)): > 1,000 mg/l
Exposure time: 72 h

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Persistence and degradability

Product:

Biodegradability : Test Type: (OECD 301B)
Concentration: 28 d
Biodegradation: 64 - 78 %
Exposure time: 64 - 78 d

Bioaccumulative potential

Product:

Partition coefficient: n-octanol/water : log Pow: estimated > 3

Mobility in soil

no data available

Other adverse effects

no data available

Product:

Additional ecological information : Information given is based on data on the ingredients and the ecotoxicology of similar products.

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DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.
Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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TRANSPORT INFORMATION

International regulation

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

Special precautions for user

Remarks : Not regulated for transport in accordance with DOT, TDG, IMDG, and IATA regulations.

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REGULATORY INFORMATION

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- SARA 311/312 Hazards** : Acute Health Hazard
- SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313** : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations**Pennsylvania Right To Know**

Ester 11138-60-6 90 - 100 %

New Jersey Right To Know

Ester 11138-60-6 90 - 100 %

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

TSCA All chemical substances in this product are listed on the TSCA Inventory.

REACH

On the inventory, or in compliance with the inventory

CH INV

The mixture contains substances listed on the Swiss Inventory

DSL

All components of this product are on the Canadian DSL.

AICS

On the inventory, or in compliance with the inventory

ENCS

On the inventory, or in compliance with the inventory

ISHL

On the inventory, or in compliance with the inventory

KECI

On the inventory, or in compliance with the inventory

PICCS

On the inventory, or in compliance with the inventory

IECSC

On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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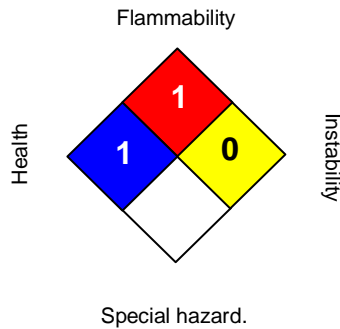
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Further information

NFPA:



HMIS II:

HEALTH	1
FLAMMABILITY	1
Reactivity	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.