

Material Safety Data Sheet

Revision Date: 06/30/03 Previous Date: 10/30/01

MSDS#: MSOL807

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: 100-15, 150-C

PRODUCT NAME: Rislone Engine Treatment 15 Oz., Rislone Concentrate

COMPANY:

THE SHALER COMPANY
21 E. JEFFERSON STREET
WAUPUN, WI 53963
Phone: 920-324-2211
M-F 7:00 A.M. - 4:00 P.M.

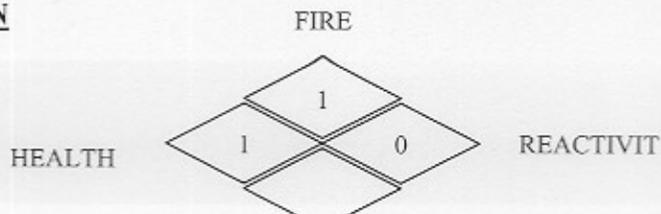
2. COMPOSITION, INFORMATION ON INGREDIENTS

<u>COMPONENT(S)</u>	<u>CAS#</u>	<u>EXPOSURE LIMITS</u>	<u>%WT</u> (approx.)
Severely Hydrotreated Petroleum Oil	64742-65-0 or 64742-47-8	Oil Mist PEL(5mg/m ³) 8hrs. TLV(5mg/m ³) 8hrs. STEL(10mg/m ³) 15hrs	80-85
Additive Mixture Containing Compounds Of Ca, Zn, S, P, N, Mg, Na	N/A Mixture	Oil Mist PEL(5mg/m ³) 8hrs. TLV(5mg/m ³) 8hrs. STEL(10mg/m ³) 15hrs.	8
Olefin Copolymer- Viscosity Improver	N/A Mixture	Oil Mist PEL(5mg/m ³) 8hrs. TLV(5mg/m ³) 8hrs. STEL(10mg/m ³) 15hrs.	6
Upper Cylinder Treatment Additive	123-86-4	STEL(950mg/m ³) TWA8 ACGHI (713mg/m ³)	<1

(This may not be a complete list of components)

3. HAZARDS INFORMATION

Hazard Rating:



- 4-Extreme
- 3-High
- 2-Moderate
- 1-Slight
- 0- Insignificant

3.1 EMERGENCY OVERVIEW

May cause mild skin irritation and inflammation following extended contact!

Avoid skin contact

Wash thoroughly after handling

Used oil may be harmful to skin!

Laboratory studies sponsored by the American Petroleum Institute show that mice develop skin cancer following repeated application and continuous exposure to a used motor oil composite. Avoid skin contact with used motor oils. When contact occurs, wash promptly to remove. Get medical attention for any persistent skin problems.

POTENTIAL HEALTH EFFECTS:

EYE: No irritation is expected from short-term exposure.

SKIN: Mild skin irritation may occur upon short-term exposure

INGESTION: No significant adverse health effects are expected to occur under normal conditions of use. However, exposure to petroleum mist at high levels may be irritating to the nose, throat and lungs.

INHALATION: Exposure to mist or vapor at high levels may be irritating to the nose, throat and lungs and may cause nausea, vomiting, and drowsiness.

3.2 POTENTIAL HEALTH EFFECTS

CHRONIC (CANCER) INFORMATION: See used oil warning 3.1

TERATOLOGY (BIRTH DEFECT) INFORMATION: None Known

REPRODUCTION INFORMATION: None Known

It may contain the following chemicals, which may cause cancer and/or birth defects

Benzene less than 0.0004 ppm

Arsenic less than 0.0175 ppm

Cadmium less than 0.0202 ppm

Lead less than 0.0259 ppm

4. FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

EYES: Flush eyes with clean, low-pressure water for at least 15 minutes, occasionally lifting the eyelids. If pain or redness persists after flushing, obtain medical attention.

SKIN: Remove by wiping; then wash skin thoroughly with plenty of soap and water. Remove contaminated clothing and thoroughly clean before reuse. Discard contaminated leather gloves and shoes.

INGESTION: If more than a half-cup full of this material is swallowed, give quantities of water, do not induce vomiting, and obtain medical attention.

INHALATION: Vaporization is not expected at ambient temperatures and this material is not expected to be an inhalation problem under anticipated conditions of use. In case of overexposure, move person to fresh air and get medical attention.

4.2 NOTE TO PHYSICIANS

Supportive care. Treatment based on judgment of the physician response to reactions of the patient. May aggravate pre-existing respiratory conditions.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: 170 °C (338 °F) Typ.

METHOD: COC D92

FLAMMABLE LIMITS:

Lower Flammable Limit: Not Determined (N/D)

Upper Flammable Limit: Not Determined (N/D)

AUTOIGNITION TEMPERATURE: N/D °F (N/D °C)

HAZARDOUS COMBUSTION PRODUCTS:

Burning or excessive heating may produce carbon monoxide and other harmful gases/vapors including oxides and/or other compounds of calcium, zinc, sulfur, phosphorous, sodium, nitrogen, and magnesium.

EXTINGUISHING MEDIA:

Dry chemical and carbon dioxide. Foam and water fog are effective, but may cause frothing.

FIRE FIGHTING INSTRUCTIONS:

SLIGHTLY COMBUSTIBLE! OSHA/NFPA CLASS-IIIB COMBUSTIBLE LIQUID. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of combustion products and oxygen deficiencies. If firefighters cannot work upwind to the fire, respiratory protective equipment must be worn. Cool tanks and containers exposed to fire with water.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Absorb spill with an inert material (e.g., dry sand or earth), then place in a chemical waste container.

LARGE SPILL:

Contain spill and prevent it from entering all water bodies, if possible. Safely stop flow of spill. Evacuate non-essential personnel from immediate spill area due to slipping hazards. In urban area, cleanup as soon as possible; In natural environments, cleanup on advice from ecologists. This material will float on water. Absorbent materials and pads can be used. Comply with all applicable laws. Spills may need to be reported to the National Response Center (800-424-8802).

7. HANDLING AND STORAGE

HANDLING:

Keep away from heat, sparks and flame. Use of oil impervious gloves recommended.

STORAGE:

KEEP OUT OF REACH OF CHILDREN!

To avoid product degradation, water contamination should be avoided and minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures (GT 200°F) should be minimized. Product degradation might increase health hazard risks.

STORAGE TEMPERATURE: Ambient

STORAGE PRESSURE: Atmospheric

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS:

Use adequate ventilation to keep oil mists of this material below applicable guideline(s)/standard(s).

8.2 RESPIRATORY PROTECTION:

None is needed under anticipated use conditions with adequate ventilation. If exposure exceeds the occupational exposure limits, follow OSHA standards or equivalent and wear proper NIOSH/MSHA-approved respiratory equipment.

8.3 SKIN PROTECTION:

Avoid prolonged and/or repeated skin contact, or wear impervious protective clothing. When leaving work, wash hands/exposed skin with soap and water.

8.4 EYE PROTECTION:

Wear eye protection. In the likelihood of splashing or spraying, and especially if material is hot (GT 125°F), wear goggles and/or face shield. Eye wash water should be available. Hard contact lenses must not be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

APPEARANCE:	<u>Blue- Blue Green</u>	FLASH POINT:	<u>170°C Typ.</u>
ODOR:	<u>Slight Petroleum</u>	SOLUBILITY IN WATER:	<u>Negligible</u>
PHYSICAL STATE:	<u>Liquid</u>	SPECIFIC GRAVITY:	<u>0.90-0.92</u>
VAPOR PRESSURE:	<u>Low</u>	VISCOSITY: @ 100 °C (cSt):	<u>7.0-11.0</u>

VAPOR DENSITY:	Not <u>Determined</u>	PERCENT VOLATILE:	<u>Negligible</u>
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10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID):

STABLE - Avoid extreme heat and open flame.

INCOMPATIBILITY:

Strong acids, alkalis and oxidizers such as liquid chlorine and oxygen.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and other harmful gases/vapors including oxides and/or other compounds of calcium, zinc, sulfur, phosphorous, sodium, nitrogen, and magnesium.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

No significant adverse health effects are expected to occur upon short-term exposure.

SKIN EFFECTS:

Mild skin irritation may occur upon short-term exposure.

ACUTE ORAL EFFECTS:

No significant adverse health effects are expected to occur upon short-term exposure.

ACUTE INHALATION EFFECTS:

No significant adverse health effects are expected to occur under normal conditions of use. However, exposure to petroleum mist at high levels may be irritating to the nose, throat and lungs.

CHRONIC EFFECTS/CARCINOGENICITY:

Laboratory studies sponsored by the American Petroleum Institute show that mice develop skin cancer following repeated application and continuous exposure to a used motor oil composite. Avoid contact with used motor oils. Personnel with pre-existing skin disorders should avoid contact with this product.

MUTAGENICITY:

No Data

12. ECONOMICAL INFORMATION

ECOTOICOLOGICAL INFORMATION:

The spilled material and any soil or water which it has contaminated may be hazardous to animal/aquatic life.

CHEMICAL FATE INFORMATION:

See 13

13. DISPOSAL CONSIDERATIONS

Maximize product recovery for reuse or recycling. Conditions of use may cause this material to become a "Hazardous Waste", as defined by state or federal laws. Use approved treatment, transporters and disposal sites in compliance with all applicable laws. If spill is introduced into a waste-water treatment system, chemical and biological oxygen demand will likely increase. Spill material is biodegradable if gradually exposed to microorganisms. Potential treatment and disposal methods include land farming, incineration and land disposal, if permitted.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Proper Shipping Name
Not a D.O.T. "HAZARDOUS MATERIAL"

DOT Hazard Class	UN/NAID No.
Not Regulated	Not Regulated

15. REGULATORY INFORMATION

SUPERFUND AMMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA), TITLE III:

Section 311/312 Hazard Categories: Immediate (Acute) and delayed (Chronic) Health Hazards.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

All components of this product are listed on the TSCA inventory.

**COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION
AND LIABILITY ACT (CERCLA):**

No chemicals in this product are subject to the reporting requirements of
CERCLA.

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT
ACT OF 1986 - PROPOSITION 65:**

Based on information currently available, this product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition, Benzene less than 0.0004 ppm, Arsenic less than 0.0175 ppm, Cadmium less than 0.0202 ppm. Lead less than 0.0259 ppm. If this product is reformulated or further processed further evaluation should be done based upon such reformulation or processing, as well as upon its final composition and use.

16. OTHER INFORMATION

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources which we believe are reliable. ***HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS.***

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. ***FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT.***

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Material Safety Data Sheet

Revision Date: 06/30/03 Previous Date: 12/2702

MSDS#: MSOL802

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: 750-11

PRODUCT NAME: Rislone Fuel System Cleaner

COMPANY:

THE SHALER COMPANY
21 E. JEFFERSON STREET
WAUPUN, WI 53963
Phone: 920-324-2211
M-F 7:00 A.M. - 4:00 P.M.

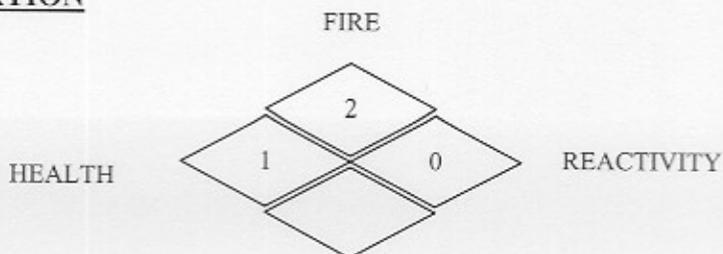
2. COMPOSITION, INFORMATION ON INGREDIENTS

<u>COMPONENT(S)</u>	<u>CAS#</u>	<u>EXPOSURE LIMITS</u>	<u>%WT</u> (approx.)
Hydrotreated Light Distillate	64742-47-8	Oil Mist PEL(5mg/m ³) 8hrs. TLV(5mg/m ³) 8hrs. STEL(10mg/m ³) 15hrs	75
Fuel Additive	8008-20-6	Oil Mist Not Available	25

(This may not be a complete list of components)

3. HAZARDS INFORMATION

Hazard Rating:



4-Extreme
3-High
2-Moderate
1-Slight
0- Insignificant

3.1 EMERGENCY OVERVIEW

May cause dizziness and drowsiness. Combustible liquid and vapor. Can be harmful or fatal if swallowed or inhaled in very high concentrations. Inhalation of high vapor or mist concentrations can cause respiratory tract & eye irritation as well as central nervous system effects (drowsiness, dizziness, nausea, headaches, and loss of consciousness).

POTENTIAL HEALTH EFFECTS:

EYE: May cause temporary discomfort or irritation to the eye.

SKIN: Mild skin irritation such as redness and/or swelling may occur upon short-term exposure.

INGESTION: May be harmful if swallowed. Liquid can directly enter the lungs when swallowed or vomited. May cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea, and loss of coordination.

INHALATION: Exposure to mist or vapor at high levels may be irritating to the nose, throat and lungs and may cause nausea, vomiting, and drowsiness. Significant exposures may result in unconsciousness and possible fatal chemical pneumonia (chemical pneumonitis).

3.2 POTENTIAL HEALTH EFFECTS

CHRONIC (CANCER) INFORMATION: No adverse effects have been documented in humans as a result of chronic exposure.

TERATOLOGY (BIRTH DEFECT) INFORMATION: None Known

REPRODUCTION INFORMATION: None Known

4. FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

EYES: Flush eyes with clean, low-pressure water for at least 15 minutes, occasionally lifting the eyelids. If pain or redness persists after flushing, obtain medical attention.

SKIN: Remove by wiping; then wash skin thoroughly with plenty of soap and water. Remove contaminated clothing and thoroughly clean before reuse. Discard contaminated leather gloves and shoes. If redness or irritation occurs, seek immediate medical attention.

INGESTION: Do not induce vomiting due to aspiration hazard. If vomiting occurs, lower head below knees to avoid aspiration. Seek immediate medical attention. If more than several mouthfuls, abdominal discomfort, nausea, and diarrhea may occur.

INHALATION: Vaporization is not expected at ambient temperatures and this material is not expected to be an inhalation problem under anticipated conditions of use. In case of overexposure, move person to fresh air and get medical attention.

OTHER REMARKS: When overheated, product may release hydrogen sulfide (H₂S) gas. H₂S concentrations above permissible concentrations can cause irritation of the eyes and respiratory tract, headache, dizziness, nausea, vomiting, diarrhea, and pulmonary edema. At concentrations above 300 ppm, respiratory paralysis, causing unconsciousness and death, can occur.

4.2 NOTE TO PHYSICIANS

Supportive care. Treatment based on judgment of the physician response to reactions of the patient. May aggravate pre-existing respiratory conditions.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: 90°C (194 °F) Typ.

METHOD: COC D92

FLAMMABLE LIMITS:

Lower Flammable Limit: Not Determined (N/D)

Upper Flammable Limit: Not Determined (N/D)

AUTOIGNITION TEMPERATURE: N/D °F (N/D °C)

HAZARDOUS COMBUSTION PRODUCTS:

Burning or excessive heating may produce carbon monoxide and other harmful gases/vapors including oxides and/or other compounds of calcium, zinc, sulfur, phosphorous, sodium, nitrogen, and magnesium. Hydrogen sulfide (H₂S) may be released if overheated.

EXTINGUISHING MEDIA:

Dry chemical and carbon dioxide. Foam and water fog are effective, but may cause frothing.

FIRE FIGHTING INSTRUCTIONS:

COMBUSTIBLE! OSHA/NFPA CLASS-IIIA COMBUSTIBLE LIQUID. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of combustion products and oxygen deficiencies. If firefighters cannot work upwind to the fire, respiratory protective equipment must be worn. Cool tanks and containers exposed to fire with water.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Absorb spill with an inert material (e.g., dry sand or earth), then place in a chemical waste container.

LARGE SPILL:

Contain spill and prevent it from entering all water bodies, if possible. Safely stop flow of spill. Evacuate non-essential personnel from immediate spill area due to slipping hazards. In urban area, cleanup as soon as possible. In natural environments, cleanup on advice from ecologists. This material will float on water. Absorbent materials and pads can be used. Comply with all applicable laws. Spills may need to be reported to the National Response Center (800-424-8802).

7. HANDLING AND STORAGE

HANDLING:

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash clothing prior to reuse. May be slippery when spilled, Keep away from heat, sparks and flame.

STORAGE:

KEEP OUT OF REACH OF CHILDREN!

To avoid product degradation, water contamination should be avoided and minimum feasible handling temperatures should be maintained. Periods of exposure to high

temperatures should be minimized. Product degradation might increase health hazard risks.

STORAGE TEMPERATURE: Ambient

STORAGE PRESSURE: Atmospheric

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS:

Use adequate ventilation to keep oil mists of this material below applicable guideline(s)/standard(s).

8.2 RESPIRATORY PROTECTION:

None is needed under anticipated use conditions with adequate ventilation. If exposure exceeds the occupational exposure limits, follow OSHA standards or equivalent and wear proper NIOSH/MSHA-approved respiratory equipment.

8.3 SKIN PROTECTION:

Avoid prolonged and/or repeated skin contact, or wear impervious protective clothing. When leaving work, wash hands/exposed skin with soap and water.

8.4 EYE PROTECTION:

Wear eye protection. In the likelihood of splashing or spraying, and especially if material is hot, wear goggles and/or face shield. Eye wash water should be available. Hard contact lenses must not be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

APPEARANCE:	Water <u>White</u>	FLASH POINT:	<u>90°C (194°F)</u>
ODOR:	Slight <u>Petroleum</u>	SOLUBILITY IN WATER:	<u>Negligible</u>
PHYSICAL STATE:	<u>Liquid</u>	SPECIFIC GRAVITY:	<u>0.81-0.83</u>
VAPOR PRESSURE:	<u>Low</u>	VISCOSITY: @ 100 °C (cSt):	Not <u>Determined</u>
VAPOR DENSITY:	Not <u>Determined</u>	PERCENT VOLATILE:	Not <u>Determined</u>

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID):

STABLE - Avoid extreme heat and open flame.

INCOMPATIBILITY:

Strong acids, alkalis and oxidizers such as liquid chlorine and oxygen.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and other harmful gases/vapors including oxides and/or other compounds of calcium, zinc, sulfur, phosphorous, sodium, nitrogen, and magnesium. Under extreme temperatures or extended storage periods, hydrogen sulfide (H₂S) gas may accumulate in the head-space of container.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

No significant adverse health effects are expected to occur upon short-term exposure.

SKIN EFFECTS:

Mild skin irritation may occur upon short-term exposure.

ACUTE ORAL EFFECTS:

May be harmful if swallowed.

ACUTE INHALATION EFFECTS:

No significant adverse health effects are expected to occur under normal conditions of use. However, exposure to petroleum mist at high levels may be irritating to the nose, throat and lungs.

CHRONIC EFFECTS/CARCINOGENICITY:

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IRAC, NTP, OSHA, or ACGIH as a carcinogen.

MUTAGENICITY:

No Data

12. ECOLOGICAL INFORMATION

ECOTOICOLOGICAL INFORMATION:

The spilled material and any soil or water which it has contaminated may be hazardous to animal/aquatic life.

CHEMCIAL FATE INFORMATION:

See 13

13. DISPOSAL CONSIDERATIONS

Maximize product recovery for reuse or recycling. Conditions of use may cause this material to become a "Hazardous Waste", as defined by state or federal laws. Use approved treatment, transporters and disposal sites in compliance with all applicable laws. If spill is introduced into a waste-water treatment system, chemical and biological oxygen demand will likely increase.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Proper Shipping Name
Not a D.O.T. "HAZARDOUS MATERIAL"

DOT Hazard Class	UN/NAID No.
Combustible Liquid	Not Regulated

15. REGULATORY INFORMATION

SUPERFUND AMMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA), TITLE III:

Section 311/312 Hazard Categories: Immediate (Acute) and delayed (Chronic) Health Hazards.

TOXIC SUBSTANCES CONTROL ACT (TSCA):

This product, or its components are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA):

No chemicals in this product are subject to the reporting requirements of CERCLA.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 - PROPOSITION 65:

Based on information currently available, this product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition. If this product is reformulated or further processed further evaluation should be done based upon such reformulation or processing, as well as upon its final composition and use.

16. OTHER INFORMATION

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources which we believe are reliable. ***HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS.***

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. ***FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT.***

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.