

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product Name: Grease & Spot Remover
Other Means of Identification: CS GSR-1

Recommended Product Use: General purpose degreaser for concrete and other surfaces
Restrictions on Use: None known

Manufacturer/Importer/Supplier/Distributor Information:

Company: Con-Spec Industries Ltd.
Address: 9525 - 63 Avenue NW
Edmonton, Alberta T6E 0G2
Contact: Robert Lummerding
Telephone: 1 (780) 437-6136
Fax: 1 (780) 437-5242
E-Mail: conspec@shaw.ca

Emergency Telephone: CANUTEC (613) 996-6666

SECTION 2. HAZARD(S) IDENTIFICATION

Classification:	Flammable liquids	Category 3
	Skin irritation	Category 2
	Eye irritation	Category 2A
	Skin sensitization	Category 1
	Aspiration hazard	Category 1

Label Elements:
Pictogram:



Signal Word: Danger

Hazard Statement: H226: Flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.

Precautionary Statement:

Prevention: P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233: Keep container tightly closed. P243: Take action to prevent static discharges. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302 + P350: IF ON SKIN: Gently wash with plenty of soap and water.

Response: P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor. P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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P331: Do NOT induce vomiting. P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313: If eye irritation persists: Get medical advice/attention. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage: P403 + P235: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazards Not Otherwise Classified:

Labelling of special preparations (GHS):

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures:

Chemical Identity	CAS Number	Content in Percent (%)*
1-methyl-4-(1-methylethenyl)-(R)	5989-27-5	60 - 100
Polyethylene Glycol Trimethylnonyl Ether	68131-40-8	1 - 5
Octoxynol-10	9004-87-9	1 - 5

Composition comments: *All concentrations are percent by weight unless ingredient is a gas.
Gas concentrations are in percent by volume.

SECTION 4. FIRST-AID MEASURES

General Advice: Consult a physician. Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.

Inhalation: If inhaled, remove to fresh air. If irritation persists, get medical attention.

Skin Contact: Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.

Ingestion: If swallowed, do not induce vomiting. If affected person is conscious, give plenty of water to drink. Get Medical attention immediately.

Most Important Symptoms/Effects, Acute and Delayed:

Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc.

Immediate Medical Attention and Special Treatment:

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SECTION 5. FIRE-FIGHTING MEASURES

General Fire Hazards: COMBUSTIBLE LIQUID AND VAPOR. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Suitable Extinguishing Media: Use dry chemical, CO₂, water spray (fog) or foam Alcohol-resistant foam Dry sand

Unsuitable Extinguishing Media: High volume water jet

Specific Hazards during Firefighting: Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Specific Hazards Arising from the Chemical: Decomposition products may include the following materials:
Carbon Dioxide, Carbon Monoxide, Metal Oxide/oxides

Special Protective Equipment and Precautions for Firefighters: In the event of fire, wear self-contained breathing apparatus.
Wear self-contained breathing apparatus for firefighting if necessary.

Special Fire Fighting Procedures: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use a water spray to cool fully closed containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Material can create slippery conditions. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Methods and Material for Containment and Cleaning Up: Stop leak if without risk. Eliminate all ignition sources. Absorb with an inert material and place in an appropriate waste disposal container. Wash affected area with soap or mild detergent and water.

Further accidental release Measures: Local authorities should be advised if significant spillages cannot be contained. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

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SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling: Put on appropriate personal protective equipment (see section 8). Do not Breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Smoking, eating and drinking should be prohibited in the application area. Keep away from heat.

Protection against fire and explosion: Store and use away from heat, sparks, open flame or any other ignition source.

Conditions for Safe Storage, Including any Incompatibilities: 40°F - 120°F (4.4°C - 49°C). Keep container tightly closed in a cool, well ventilated place. Keep out of the reach of children. Keep away from oxidizing agents and strongly acid or alkaline materials.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits: Contains no substances with occupational exposure limit values.

Appropriate Engineering Controls:
Individual Protection Measures, such as Personal Protective Equipment
General Information:

Engineering Measures: Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal Protective Equipment

Eye Protection: Safety glasses. Ensure that eyewash stations and safety showers are close to the workstation location. Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.

Skin Protection: Chemical-resistant gloves. Neoprene, Nitrile or Rubber gloves. Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Use with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Hygiene measures: Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State:	Liquid
Form:	Liquid
Colour:	Clear Orange
Odour:	Strong Citrus
Odour Threshold:	No data available
PH:	Not applicable
Melting Point/Freezing Point:	Not applicable
Initial Boiling Point and Boiling Range:	170°C (338°F)
Flash Point:	Closed cup: 53.9°C (129°F)
Evaporation Rate:	<1 (Water = 1)
Upper/Lower Explosive Limits	No data available
Flammability (solid, gas):	Combustible
Vapour Pressure:	0.25 kPa (1.9 mm Hg) [20°C]
Vapour Density:	4.7 [Air = 1]
Specific Gravity:	0.86
Solubility(ies)	
Solubility in Water:	Emulsifiable
Solubility (other):	Not applicable
Partition Coefficient (n-octanol/water):	No data available
Auto-ignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Viscosity:	3.8 mm ² /s (20 °C)

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability:	The product is stable. No decomposition if stored and applied as directed.
Conditions to Avoid:	Keep away from heat, sparks and flame.
Incompatible Materials:	Reactive or incompatible with the following materials: oxidizing materials. Incompatible with some strong acids.
Possibility of Hazardous Reactions:	No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous polymerization will not occur, nor will hazardous decomposition products be produced.

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SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Dermal contact. Eye contact. Inhalation.

Acute Toxicity:

Oral: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Dermal: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method

Component Analysis

4-Nonylphenol branched, ethoxylated: Acute oral toxicity LD50 5,000 mg/kg (Rat)
Acute dermal toxicity LD50 2,573 mg/kg (Rabbit)

Symptoms of Exposure:

Acute toxicity Effects: May cause eye irritation. May cause irreversible eye damage.

Oral: May be harmful if swallowed.

Inhalation: No known significant effects or critical hazards.

Dermal: May cause skin irritation or dermatitis. Causes sensitization.

Assessment other acute effects: Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Citrus, ext.:

Nonylphenol, ethoxylated:

4-Nonylphenol branched, ethoxylated:

STOT - single exposure No data available
STOT - repeated exposure No data available

Aspiration toxicity: No data available

Further information

Product: Remarks: Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Effects: No known significant effects or critical hazards.

Ecotoxicity Toxicity: No data available

Persistence and degradability: No data available

Mobility in soil: No data available

Other ecotoxicological advice: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life.

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SECTION 13. DISPOSAL CONSIDERATIONS

Residue Waste: Dispose of in accordance with local regulations. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated Packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

TDG: Not Regulated

UN Shipping Name:
Classification:
UN:

SECTION 15. REGULATORY INFORMATION

WHMIS Classification: Class B-3; D-2B

SECTION 16. OTHER INFORMATION

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