

**I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME: ANTI-SEIZE/GRIPPAGE****DATE: August 11, 2006**

**SUPPLIER:** Melrose Chemicals Ltd.  
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**PRODUCT USE:** Anti-seize in aerosol**II. COMPOSITION/ INFORMATION ON INGREDIENTS**

Chemical Identity:	EINECS #	CAS #	% Conc.	Toxicity
Paraffin oils	232-384-2	8012-95-1	10 - 30	
Copper	231-159-6	7440-50-8	10 - 30	
Propane	200-827-9	74-98-6	15 - 40	F+; R12

**Ingredients according to Directive 2004/648/EC**

None

**III. HAZARDS IDENTIFICATION**

**Hazard classification of product according to Directive 1999/45/EC:** F+, extremely flammable; Xi, irritant. Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.

**Hazards for humans:** Irritating to eyes.**Hazards for environment:** Not applicable.**IV. FIRST AID MEASURES****Contact with skin:** Wash exposed area with soap and water and rinse well.**Contact with eyes:** Flush with plenty of water. Get medical attention if irritation persists.**Inhalation:** Remove to fresh air. Obtain medical attention if irritation persists.**Ingestion:** If victim is conscious, give two glasses of water to drink. Call a physician. Do not give anything by mouth to an unconscious person.**V. FIRE FIGHTING MEASURES****Conditions of flammability:** Requires source of ignition, presence of air, and a temperature greater than the flashpoint.**Means of extinction:** Use carbon dioxide, water fog, alcohol foam, dry chemical (preferred).**Hazardous combustion products:** Combustion can produce carbon monoxide and dioxides. Exposing product to intense heat could cause containers to rupture.**Unusual fire and explosion hazards:** Aerosols may explode if heated above 50°C**VI. ACCIDENTAL RELEASE MEASURES****Procedures to be followed in case of spills or leaks:** Clean up spills promptly. Surfaces can be slippery. Treat as an oil spill. For small spills, absorb on inert material (clay, sand, dirt, etc.). For large spills, contain with absorbant material and contact a disposal company. In all cases, package in a hazardous waste approved container. Observe recommended control measures.**Personal protective equipment to be used:** Protective gloves and safety glasses.**VII. HANDLING AND STORAGE****Special handling procedures and equipment:** The usual precautions for handling chemicals should be observed. Use only in well ventilated areas. Do not spray on a naked flame or incandescent material. Do not pierce or burn aerosols, even after use. Do not breathe aerosols or vapours. Avoid contact with skin and eyes.**Specific storage requirements:** Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Keep in a cool, dry, well ventilated place**VIII. EXPOSURE CONTROL/PERSONAL PROTECTION****Respiratory Protection:** Avoid prolonged or frequent contact when handling material. Avoid breathing mists or vapour. Handle only in adequately ventilated areas.**Protective Gloves:** Nitrile or neoprene.

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**Eye Protection:** Safety glasses.

**Additional Protective Equipment:** Overall and apron.

**Ventilation:** Adequate ventilation to reduce mists below permissible exposure limits recommended.  
Handling area may require mechanical ventilation.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

**Flashpoint and method of determination:** <0°C

**Flammable limits (% in air):** LOWER: Not determined UPPER: Not determined

**Auto-Ignition temp.:** Not determined.

**Physical State:** Liquid

**Vapour density:** Not determined

**Coefficient of n-octanol/water distribution:** Not determined.

**Odour:** None

**Boiling Point:** >177°C

**Specific Gravity:** 0.84

**Freezing Point:** Not applicable.

**Vapour Pressure:** Not determined

**pH:** Not applicable.

**Evaporation Rate:** Not determined

**Colour:** Copper

**Solubility in water:** Insoluble

**Odour threshold:** Not determined.

## X. STABILITY AND REACTIVITY

**Chemical stability:** Stable under normal conditions. Hazardous polymerization will not occur.

**Incompatible substances:** Avoid strong oxidizing and acids.

**Conditions of reactivity:** Avoid contamination with reactive substances.

**Hazardous decomposition products:** Carbon monoxide and dioxides.

## XI. TOXICOLOGICAL INFORMATION

**Probable route of exposure:** Splashes on skin and in eyes. Inhalation of solvent vapours.

**Exposure Limits:** LD<sub>50</sub> (Calculated) 4000 mg/kg

**Effect of acute and chronic exposure to product:** Irritating to eyes. Vapours may cause drowsiness and dizziness.

**Irritating:** No

**Sensitisation to product:** No

**Carcinogenicity:** Data not available.

**Reproductive toxicity:** Data not available.

**Teratotoxicity:** Data not available.

**Mutagenicity:** Data not available.

**Name of toxicologically synergistic product(s):** Data not available.

## XII. ECOLOGICAL CONSIDERATIONS

**Environmental toxicity information:** Avoid release to the environment. Refer to special instructions/safety data sheets.

## XIII. DISPOSAL CONSIDERATIONS

**For the product:** EC disposal code №:

16 05 04 (Gases in pressure containers (including halons) containing dangerous substances).

**For the packaging:** EC disposal code №:

15 01 04 (metallic packaging). Can be recycled.

## XIV. TRANSPORT INFORMATION

### CARRIAGE BY ROAD (CROSSING BORDERS) ADR/RID:

<b>ADR/RID Class:</b>	2	5F
<b>Hazard Identification Number:</b>	223	
<b>UN Number:</b>	1950	
<b>Packing group:</b>	N/A	
<b>Label:</b>	2.1	
<b>UN proper shipping name:</b>	AEROSOLS, flammable	

### TRANSPORT BY SEA IMDG:

<b>IMDG Class:</b>	2
<b>UN Number:</b>	1950

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**Packing group:** N/A  
**EMS Number:** F-D, S-U  
**Stowage:** Category A  
**Label:** 2.1  
**Marine pollutant:** No  
**UN proper shipping name:** AEROSOLS, flammable

## TRANSPORT BY AIR ICAO-TI and IATA-DGR:

**ICAO/IATA Class:** 2  
**UN Number:** 1950  
**Packing group:** N/A  
**Label:** 2.1  
**UN proper shipping name:** AEROSOLS, flammable

**Special Clause:** For North American and air shipments this product may be shipped as a consumer commodity ORM-D. Carton to be labeled ORM-D or ORM-D Air

## XV. REGULATORY INFORMATION

**Inventory Status:** TSCA (USA), CEPA (Canada, DSL), EINECS (EU), China, TCCL (Korea, KECI), RA 6969 (Philippines, PICCS), NICNAS (Australia, AICS), IEC (Japan).

**WHMIS CLASSIFICATION:** Class B-3; Class D, div 2b.

**Danger symbol:** F+, extremely flammable; Xi, irritant



**Risk phrases:** 12 Extremely flammable.

36 Irritating to eyes.

67 Vapours may cause drowsiness and dizziness.

**Safety phrases:** 2 Keep out of reach of children.

26 In case of contact with eyes rinse immediately with plenty of water and seek medical advise.

51 Use only in well-ventilated areas.

## XVI. OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian *Controlled Products Regulations* and the MSDS contains all the information required by the Canadian *Controlled Products Regulations* and national legislations.

This Material Safety Data Sheet is in conformation with Directive 2001/58/EC.

R-Sentences of ingredients in paragraph II:

12 Extremely flammable.

**Replaces: M.S.D. dated:** December 22, 2004

**Version:** 7

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