

**Material Safety Data Sheet**

According to 91/155 EC

## Identification of substance

Date Prepared: December 1, 2011

## Product details :

Trade name : Snow Grip

Manufacturer's Name: Brodi Specialty Products, Ltd.

Manufacturer's Address: 3175 14th Ave. Unit 1 Markham Ontario L3R 0H1

Information phone: +1 (877) 744-0751

Prepared By: MSDS Co-ordinator, (877) 744-0751 ext 205, Brodi Specialty Products Ltd.

Composition /Data on components :

## Chemical characterization

Description : Mixture of the substances listed below with harmless additions.

## Dangerous Components

71-23-8	Propane-1-01	25 – 50 %
67-64-1	Acetone	10 – 25 %
142-82-5	Heptane	10 – 25 %
Propane / Butane (Treibgas / propellant)		10 – 25 %

## Hazards identification

## Hazard designation :

Xi Irritant

F+ Extremely flammable

Information pertaining to particular dangers for man and environment :

Extremely flammable

Risk of serious damage to eyes

Vapours may cause drowsiness and dizziness

Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50 °C, ie. Electric lights. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from

Sources of ignition. No smoking.

Classification system : The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

## First aid measures

General information : If symptoms arise or in case of doubt seek medical advice.

After inhalation, Supply fresh air.

After skin contact, Clean with water and soap. If possible, also wash with polyethylene glycol 400.

After eye contact, Rinse opened eye for several minutes under running water.

Then consult a doctor.

After swallowing, Rinse out mouth and then drink plenty of water.

## Fire fighting measures

Suitable extinguishing agents : CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.

Special hazards caused by the material, its products of combustion or resulting gases : Can form explosive gas-air mixtures.

Protective equipment : No special measures required.

## Accidental release measures

Person-related safety precautions : Ensure adequate ventilation

Measures for environmental protection : Do not allow to enter drainage system, surface or ground water.

Measures for cleaning/collecting : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

## Handling and storage

## Handling

Information for safe handling : Ensure good ventilation /exhaustion at the workplace. Open and handle container with care. Information about protection against explosions and fires : Keep ignition sources away – Do not smoke. Protect against electrostatic charges.

## Storage

Requirements to be met by storerooms and containers : Store in cool location.

Information about storage in one common storage facility : Not required.

Further information about storage conditions : Store in cool, dry conditions in well sealed containers. Protect from heat and direct sunlight.

## Exposure controls and personal protection

Additional information about design of technical systems : No further data; see section 7.

Components with limit values that require monitoring at the workplace :

71-23-8 Propane-1-01 (25 – 50 %)

ACGIH – TLV : Short-term value : 492 mg/m<sup>3</sup>, 200 ppmLong-term value : 614 mg/m<sup>3</sup>, 250 ppm

Skin  
 NIOSH – REL : Short-term value : 500 mg/m<sup>3</sup>, 200 ppm  
 Long-term value : 625 mg/m<sup>3</sup>, 250 ppm

Skin  
 OSHA – PEL : Short-term value : 500 mg/m<sup>3</sup>, 200 ppm

Acetone 67-64-1 (10 – 25 %)  
 ACGIH – TLV : Short-term value : 1188, A4 mg/m<sup>3</sup>, 500, A4 ppm  
 Long-term value : 1782, A4 mg/m<sup>3</sup>, 750, A4 ppm  
 (q)

NIOSH – REL : Short-term value : 590 mg/m<sup>3</sup>, 250 ppm  
 OSHA – PEL : Long-term value : 2400 mg/m<sup>3</sup>, 1000 ppm

Heptane 142-82-5 (10 – 25 %)  
 ACGIH – TLV : Short-term value : 1640 mg/m<sup>3</sup>, 400 ppm  
 Long-term value : 2050 mg/m<sup>3</sup>, 500, A4 ppm  
 NIOSH – REL : Short-term value : 350 mg/m<sup>3</sup>, 85 ppm  
 Long-term value : C 1800\* mg/m<sup>3</sup>, C 440\* ppm  
 \* 15 min

OSHA – PEL : Short-term value : 2000 mg/m<sup>3</sup>, 500 ppm  
 Additional information : The lists that were valid during the compilation were used as basis.

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals.

Breathing equipment : Not necessary if room is well ventilated.

Protection of hands : Not required

Eye Protection : Not required

#### Physical and chemical properties

Form : Aerosol  
 Colour : Light  
 Odour : Acetone-like

	Value / Range	Unit	Method
Change in condition			
Melting point / Melting range:	Not determined		
Boiling point / Boiling range :	Not applicable, as aerosol		
Flash point :	< 0 °C		
Self-inflammability :	Product is not self-igniting.		
Danger of explosion :	Product is not explosive. However, Information of explosive air/steam mixtures is possible.		
Density :	Not determined		
Solubility in /Miscibility with			
Water :	Partly soluble		
-pH-value :	Not applicable		
Solvent content :			
Organic solvents :	75 – 100 %		

#### Stability and reactivity

Thermal decomposition / conditions to be avoided :  
 Stable if used and stored according to specifications (see section 7).  
 Dangerous reactions : No dangerous reactions known  
 Dangerous products of decomposition : No dangerous decomposition products known.

#### Toxicological information

Acute toxicity :  
 Primary irritant effect :  
 On the skin : No irritant effect.  
 The product may show degreasing properties. In certain circumstances eczema may be caused on prolonged contact.  
 On the eye : Strong irritant with the danger of severe eye injury.  
 Sensitization : No sensitizing effect known.  
 Experience with humans :  
 The product contains larger amounts of solvents, which may cause solvent intoxication when used regularly in low ventilated areas.  
 Symptoms are headache, haze, dizziness, lack of concentration, weakness, breathing difficulties.  
 Additional toxicological information :  
 The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as Irritant

## Ecological information

Behaviour in environmental systems :  
 Mobility and bioaccumulation potential : Bioaccumulation is not very probable.  
 Ecotoxicological effects :  
 Remark : No ecotoxicological data available at the moment. However larger amounts of the solvents contained may be dangerous for aquatic organisms.

## Disposal considerations

Product :  
 Recommendation : Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
 Uncleaned packaging :  
 Recommendation : Dispose of packaging according to regulations on the disposal of packagings.

## Transport information

Land Transport ADR/RID (cross-border)  
 ADR/RID-GGVS/ Class E : 2 Gases that are compressed, liquified or dissolved under pressure.  
 Number/letter : 5 F  
 Kemler N° : 30  
 UN Number : 1950  
 Label : 3

Maritime Transport I.M.D.G.  
 I.M.D.G. Class : 2  
 Page : 2102  
 UN Number : 1950  
 Packaging group : -  
 EMS Number : 2-13  
 MFAG : 3  
 Marine pollutant : No

Air Transport ICAO-TI and IATA-DGR :  
 ICAO / IATA Class : 2  
 UN / ID Number : 1950  
 Packaging group : -

## Regulatory information

Designation according to EC guidelines : The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials

Code letter and hazard designation of product:  
 Xi Irritant  
 F+ Extremely flammable

Risk phrases :  
 Extremely flammable  
 Risk of serious damage to eyes  
 Vapours may cause drowsiness and dizziness.

Safety phrases :  
 Keep out of reach of children.  
 Do not breathe aerosol.  
 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 Use only in well ventilated areas.

Special designation of certain preparations :

Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.  
 Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

National regulations  
 Classification according to *VbF* : B

Technical instructions (air) : Class Share in %

III :5 - 100

Other information
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This data is based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.