SAFETY DATA SHEET
BELZONA® 9111 (CLEANER / DEGREASER)

SECTION 1: IDENTIFICATION			
Product identifier used on the label:	Belzona® 9111 (Cleaner / Degreaser)		
Other means of identification:	Internal ID: SN2741		
Recommended use of the chemical and restrictions on use:	Single component material. This product does not require mixing with another component before use. General purpose cleaner / degreaser. Application by brush, swabbing or using proper Belzona® Kit. Please refer to the relevant Belzona® Instructions For Use (IFU) for further information. Product should be used by professional applicators.		
Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:	Belzona Inc. 14300 NW 60th Ave. Miami Lakes, FL 33014 U.S.A. Tel: +1 305-594-4994 Fax: +1 305-599-1140 Website: www.belzona.com	Belzona Polymerics Ltd. Claro Road, Harrogate, HG1 4DS, UK Tel: +44 (0) 1423 567641 Fax: +44 (0) 1423 505967 Website: www.belzona.com	Belzona Canada Inc. 563 Edward Avenue Unit 2, Richmond Hill, Ontario L4C 9W7 Tel: +1 905-737-2225 Fax: +1 905-737-1597 Website: www.belzona.com
Emergency telephone number:	24 Hour emergency contact: ChemTel: 1-800-255-3924 (North America) ChemTel: +1 813-248-0585 (International)		

SECTION 2: HAZARDS IDENTIFICATION	
Classification of the chemical:	Flammable liquids - Category 4 Aspiration hazard - Category 1
Signal word:	Danger
Hazard statements:	Combustible liquid. May be fatal if swallowed and enters airways.
Symbols:	
Precautionary statements:	**Prevention:** Keep away from flames and hot surfaces. -No smoking. Wear protective gloves / eye protection / face protection.
	Response: If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting.
	Storage: Store in a well-ventilated place. Keep cool. Store locked up.
	Disposal: Dispose of contents / container in accordance with all Federal, State / Provincial and local regulations.
Hazards not otherwise classified that have been identified during the classification process:	Central nervous system effects.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS				
Chemical name	Common names and synonyms	CAS number	EC number	Weight %
Naphtha (petroleum), hydrotreated heavy	Not available	64742-48-9	265-150-3	60-100

SECTION 4: FIRST-AID MEASURES	
Description of necessary measures, subdivided according to the different routes of exposure:	**General information:** In all cases of doubt, or if symptoms persist, seek medical attention. Never administer anything by mouth to an unconscious individual.
	Inhalation: Remove victim to fresh air and keep comfortable for breathing. If victim is not breathing, provide artificial respiration. Seek medical attention if adverse effects persist or escalate to severe. If victim is unconscious, place in recovery position and seek medical attention immediately.
	Ingestion: If accidentally swallowed, rinse mouth with water and obtain immediate medical attention. Remove dentures, if applicable. Keep at rest. Do NOT induce vomiting.
	Skin contact: Remove and isolate contaminated clothing and shoes. To remove product material from skin, rinse thoroughly with soap and water. If skin irritation persists, seek medical attention. Wash contaminated clothing before reuse.

	Eye contact: Immediately flush eyes with plenty of water while holding the eyelids apart. Check for and remove any contact lenses if easy to do. Continue to rinse for at least 15 minutes. Seek medical attention if irritation occurs.
Most important symptoms / effects, acute and delayed:	**Inhalation:** Breathing of high concentrations of vapors may cause irritation to the respiratory tract and adverse effects to the central nervous system, such as dizziness, light-headedness, headache, drowsiness, nausea, anesthesia, loss of coordination and unconsciousness.
	Ingestion: May cause serious and potentially fatal lung damage if swallowed or subsequently vomited.
	Skin contact: Prolonged or repeated skin exposure may cause skin irritation, cracking, dermatitis, and defatting of the skin.
	Eye contact: May cause discomfort and irritation to eyes.
Indication of immediate medical attention and special treatment needed, if necessary:	No applicable information is available.

SECTION 5: FIRE-FIGHTING MEASURES	
Suitable (and unsuitable) extinguishing media:	Use: dry sand, alcohol-resistant foam, carbon dioxide, dry chemical, water fog for larger fires. Do NOT use water jet.
Specific hazards arising from the chemical:	Fire will produce dense black smoke, which may contain hazardous combustion products such as carbon monoxide and carbon dioxide.
Sensitivity to mechanical impact:	The product is not sensitive to mechanical impact or physical shock.
Sensitivity to static discharge:	May accumulate static charge during use. Product vapors in the flammable range can probably be ignited by a static discharge.
Special protective equipment and precautions for fire-fighters:	Firefighters should wear appropriate protective equipment. Positive pressure self-contained breathing apparatus (SCBA) should be worn. Cool fully closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains, sewers, ditches, or waterways. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment, and emergency procedures:	Stop leak, if without risk. No action should be taken involving any personal risk or without suitable training. Evacuate personnel to a safe area. Eliminate all ignition sources and ventilate the area. Avoid breathing vapors. Avoid contact with eyes, skin and clothing. Refer to protective measures listed in Section 8.
Methods and materials for containment and clean up:	Contain and collect spillage with inert absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth and place into a suitable labeled container. Use spark-proof tools and explosion-proof equipment. Clean surfaces down with a water and detergent mixture. Refer to disposal methods listed in Section 13.

SECTION 7: HANDLING AND STORAGE	
Precautions for safe handling:	Exclude all non-essential personnel. Put on appropriate protective equipment (see Section 8). Avoid contact with eyes, skin, and clothing. Avoid breathing vapors. All eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. After handling, workers should wash hands and face before eating, drinking, and smoking. Use product in well ventilated areas. Use respiratory protection when ventilation is inadequate. Keep product in its original container or use an approved alternative made from compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Use proper bonding and / or ground procedures. Avoid release to the environment.
Conditions for safe storage, including any incompatibilities:	Store in accordance with local regulations. Observe the label precautions. Prevent unauthorized access. Store between 5°C (41°F) and 30°C (86°F) unless otherwise stated in a dry, well-ventilated area away from sources of heat, ignition and direct sunlight. Store product away from incompatible materials (Section 10). Use appropriate containment to avoid environmental contamination. Assure appropriate fire extinguishers are available in close proximity to the storage area.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION	
Exposure limit values:	OSHA permissible exposure limits (PEL): petroleum distillates (naphtha, rubber solvent), TWA 500 ppm, 2000 mg/m^3. ACGIH threshold limit value (TLV): TWA (C_9-C_{15} alkanes) 1200 mg/m^3.
Appropriate engineering controls:	Use in well ventilated areas or provide adequate ventilation. If these are not sufficient to maintain concentrations of airborne contaminants below the relevant occupational exposure limits, suitable respirators should be worn (see “respiratory protection” below). Engineering controls should keep gas, vapors or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measures:	**Respiratory protection:** When adequate ventilation cannot be achieved, a NIOSH approved air-purifying full facepiece or half-face respirator equipped with appropriate vapor / particulate cartridge(s) is recommended. If the application environment presents the likelihood of contaminants by significant concentrations of dust, the appropriate particulate pre-filter (N-, R-, or P-series) should be worn in combination with the above. It is essential that the facepiece is fitted correctly and that the filter is changed in accordance with the manufacturer's instructions. Where entry into unknown or Immediately Dangerous To Life or Health (IDLH) atmospheres is required, a NIOSH approved full facepiece pressure demand self-contained breathing apparatus (SCBA), or a combination of full facepiece pressure demand supplied-

	air respirator (SAR) with auxiliary self-contained air supply should be worn. Respirator selection must be based on known or anticipated exposure levels, the hazards of the products and the safe working limits of the selected respirator.
	Hand protection: Chemical-resistant, impervious gloves, complying with an approved standard, should be worn at all times when handling this product, especially when the risk assessment indicates the necessity. Pay close attention to the permeability and breakthrough time of the gloves and change gloves before the breakthrough time is exceeded. If in doubt, seek advice from manufacturers or vendors of the protective gloves in order to determine appropriate types for the particular circumstances.
	Eye protection: It is recommended that eye protection (eg. safety glasses with side shields, goggles, full face shield) is worn at all times during the handling and use of this material, especially when the risk assessment indicates the necessity.
	Other protections: Protective clothing, footwear, and any additional skin protection should be identified and selected based on the task being performed and the risks involved. Protective garments should be approved by a specialist before handling this product.
	Hygiene measures: Wash hands and face thoroughly at the end of each work shift and before eating, smoking and / or using the lavatory. Do not place contaminated articles or equipment into pockets. Ensure eye wash stations and safety showers are readily available. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	Colorless liquid
Odor:	Odorless
Odor threshold:	Not available
pH:	Not available
Melting point / freezing point:	Not available
Boiling point / boiling range:	185-211°C (365-412°F)
Flash point:	> 61°C (142°F) Method: closed cup
Evaporation rate:	< 0.1 (n-butyl acetate = 1)
Flammability:	Combustible
Upper / lower flammability or explosive limits:	Lower explosive limit 0.7% Upper explosive limit 5.3%
Vapor pressure:	0.064 kPa (0.48 mmHg) at 20°C (68°F) 0.13 kPa (0.98 mmHg) at 38°C (100°F) 0.28 kPa (2.1 mmHg) at 50°C (122°F)
Vapor density (Air =1):	5.6 at 101 kPa
Relative density:	0.767 at 15 °C (59°F)
Solubility in water:	Negligible
Partition coefficient n-octanol / water:	Not available
Autoignition temperature:	335°C (635 °F)
Decomposition temperature:	Not available
Viscosity, kinematic:	1.55 cSt at 40 °C (104 °F), 1.99 cSt at 25 °C (77 °F)

SECTION 10: STABILITY AND REACTIVITY	
Reactivity:	No vigorous reaction known under recommended storage and handling conditions (see Section 7).
Chemical stability:	Stable under recommended storage and handling conditions.
Possibility of hazardous reactions:	Under recommended storage and handling conditions, hazardous reactions will not occur.
Conditions to avoid:	Avoid heat, sparks, open flames, and other sources of ignition. Avoid static electricity discharge which may ignite product vapors.
Incompatible materials:	Oxygen, strong oxidizing agents, strong acid and base.
Hazardous decomposition products:	No known hazardous decomposition products if stored and used as recommended.

SECTION 11: TOXICOLOGICAL INFORMATION	
Likely routes of exposure:	Inhalation, ingestion, skin contact, skin absorption and eye contact.
Symptoms related to the physical, chemical and toxicological characteristics:	See Section 4: “Most important symptoms / effects, acute and delayed”.
Delayed, immediate, and chronic effects from short and long-term exposure:	**Acute toxicity:** See toxicity data below. For most important symptoms/effects, see Section 4.
	Skin corrosion / irritation: May be irritating to skin with prolonged or repeated exposure. For most important symptoms/effects, see Section 4.
	Eye damage / irritation: May cause discomfort and irritation to eyes.
	Respiratory and skin sensitization: There is no data on the product itself. Available information on the individual components does not indicate a sensitization hazard.
	Germ cell mutagenicity: There is no data on the product itself. Available information on the individual components does not indicate a mutagenic hazard.
	Carcinogenicity: There is no data available on the product itself. None of the components in concentration of 0.1% or greater are listed as carcinogens according to OSHA, NTP, or IARC.

	Reproductive / developmental toxicity: There is no data on the product itself. Available information on the individual components does not indicate reproductive or developmental toxicity.
	Specific target organ toxicity – single exposure: Central nervous system effects; respiratory tract irritation.
	Specific target organ toxicity – repeated exposure: There is no data available.
	Aspiration hazard: Aspiration hazard. May be fatal if swallowed and enters airways.
Name of toxicologically synergistic products:	There is no data available.
Numerical measures of toxicity:	**Acute toxicity:** There is no data on the product itself. Toxicity data were estimated from structurally similar materials. Oral: LD_{50} > 5000 mg/kg, species : rat Dermal: LD_{50} > 3160 mg/kg, species : rabbit

SECTION 12: ECOLOGICAL INFORMATION	
Ecotoxicity:	**Aquatic toxicity:** There is no data on the product itself. Based on the individual component data, the product is expected to have experimental LC_{50} / EC_{50} / ErC_{50} values greater than 100 mg/L in most sensitive species.
Persistence and degradability:	There is no data available on the product itself. Based on the individual component data, this product is expected to be readily biodegradable.
Bioaccumulative potential:	There is no data available.
Mobility in soil:	There is no data available.
Other adverse effects:	No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS	
Disposal methods:	Generation of waste should be avoided or minimized, if possible. Do NOT dump into any sewers, on the ground, or into any body of water. This product as shipped in its intended condition doesn't meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261. 20-24). Disposal must be in compliance with all Federal, State / Provincial and local laws and regulations. Regulations may vary in different locations. It is the generator's responsibility to determine the toxicity and physical properties of the material generated, and further to determine the proper waste classification and disposal methods.

SECTION 14: TRANSPORT INFORMATION	
US Department of Transportation (DOT):	NA number: NA1993 Proper shipping name: Combustible liquid, n.o.s. (containing naphtha (petroleum), hydrotreated heavy) Transport hazard class: Combustible Packing Group: III. Environmental hazards: No.
Canada Transportation of Dangerous Goods (TDG):	Not regulated.
International Air Transport Association (IATA):	Not regulated.
International Maritime Dangerous Goods (IMDG):	Not regulated.
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code):	Not carried in bulk.
Special precautions:	No applicable information is available.
Transport notes:	Transport classification: labeling and packaging requirements may vary with pack and load size. Please refer to the current transport regulations. Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that individuals transporting product know what to do in the event of accident or spillage.

SECTION 15: REGULATORY INFORMATION	
OSHA Hazard Communication Standard:	This product is considered "Hazardous" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.
TSCA chemical substance inventory:	All constituents of this product are included on the inventory or are not required to be listed.
SARA 302 extremely hazardous substance:	Not listed.
SARA 311/312 hazards:	Fire hazard, acute health hazard.
SARA 313 toxic chemicals above *de minimis* level:	None.
California Proposition 65:	Not listed.
Canada WHMIS classification:	B3, D2B. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.
Canada WHMIS label:	

DSL and NDSL:	All constituents of this product are present on the DSL or are not required to be listed.

SECTION 16: OTHER INFORMATION	
Abbreviations:	ACGIH = American Conference of Government Industrial Hygienists AIHA = American Industrial Hygiene Association CAS = Chemical Abstracts Service DSL = Domestic Substances List EPA = Environmental Protection Agency IARC = International Agency for Research on Cancer NDSL = Non-domestic Substances List NIOSH = National Institute for Occupational Safety and Health NOAEL = No Observable Adverse Effect Level NTP = National Toxicology Program OSHA = Occupational Safety and Health Administration RCRA = Resource Conservation and Recovery Act SARA = Superfund Amendment and Reauthorization Act STEL = Short-Term Exposure Limits TSCA = Toxic Substance Control Act TWA = Time-weighted Average UN = United Nations WHMIS = Workplace Hazardous Materials Information System
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