



MATERIAL SAFETY DATA SHEET

BELZONA® 9111 (CLEANER/DEGREASER)

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	BELZONA® 9111 (CLEANER/DEGREASER)		
INTERNAL ID	OW9111US		
PRODUCT USE	Single component material. This product does not require mixing with another component before use. General purpose cleaner/degreaser. Application by brush or swabbing. Please refer to the relevant Belzona® Instructions For Use for further information. For use only by professional operators.		
SUPPLIER	Belzona Inc. 2000 N.W. 88 Court Miami FL 33172 ☎ 1-305-594-4994 Fax: 1-305-599-1140 belzona@belzona.com	MANUFACTURER	Belzona Polymeric Limited Claro Road, Harrogate North Yorkshire HG1 4AY, England ☎ +44 (0) 1423 567641 Fax: +44 (0) 1423 505967 belzona@belzona.co.uk
CONTACT PERSON	Prepared by the Regulatory Affairs Department; Phone: +44 (0) 1423 567 641		
EMERGENCY TELEPHONE	CHEMTREC: 800-424-9300 Toll free in United States CHEMTREC: 1-703-527-3887 For calls from outside the United States		

2 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Lightly colored. Liquid. Hydrocarbon odor. **WARNING.** Combustible liquid and vapor. Flashpoint 51°C (124°F). Harmful: may cause lung damage if swallowed. Prolonged or repeated contact may dry skin and cause irritation. May cause respiratory tract irritation. Vapours may cause drowsiness and dizziness. Prevent the product from entering into soil, drains, sewers, ditches or waterways.

POTENTIAL HEALTH EFFECTS

INHALATION

May cause nose, throat, and lung irritation. Central nervous system depression.

INGESTION

Ingestion is not normally an exposure risk arising from professional applications. Inadvertent ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhea. Aspiration of solvent vapors into the lungs may cause severe pulmonary problems. Harmful: may cause lung damage if swallowed.

SKIN CONTACT

Prolonged or repeated contact with the skin may lead to irritation, blistering, dermatitis or removal of natural fats from the skin resulting in absorption through the skin.

EYE CONTACT

Product splashes in the eye may cause slight irritation. Vapor may irritate eyes.

ROUTE OF ENTRY

Inhalation. Ingestion. Skin and/or eye contact. Skin absorption.

TARGET ORGANS

Eyes. Skin. Central nervous system. Heart & cardiovascular system. Respiratory system, lungs.

MEDICAL SYMPTOMS

Prolonged or repeated contact with the skin or mucous membrane may result in irritant symptoms such as redness, blistering or dermatitis. Onset of symptoms may be delayed. May cause nose, throat, and lung irritation. Eye contact may cause: redness and irritation.

CARCINOGENICITY

Not available for the mixture, however none of the components in concentrations of 0.1% or greater are listed as carcinogens according to OSHA, NTP, ACGIH or IARC.

SENSITIZATION

Not a skin sensitizer.

TOXIC TO REPRODUCTION

Not available for the mixture, however available information on the individual components does not indicate a reprotoxic hazard.

MUTAGENICITY

Not available for the mixture, however available information on the individual components does not indicate a mutagenic hazard.

DEVELOPMENTAL TOXICITY

Not available for the mixture, however available information on the individual components does not indicate a developmental hazard.

BELZONA® 9111 (CLEANER/DEGREASER)**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Weight
NAPHTHA (PETROLEUM), HEAVY ALKYLATE	265-067-2	64741-65-7	60-100%

COMPOSITION COMMENTS

The remaining constituents of this product are either considered to be non-hazardous or below the relevant concentration limits.

4 FIRST-AID MEASURES**GENERAL INFORMATION**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

INHALATION

Remove to fresh air. Keep the patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.

INGESTION

If accidentally swallowed obtain immediate medical attention. Keep at rest. Rinse mouth with plenty of water. Do NOT induce vomiting.

SKIN CONTACT

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners. If irritation or inflammation persists, seek medical attention.

EYE CONTACT

Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart, and seek medical advice.

5 FIRE-FIGHTING MEASURES**EXTINGUISHING MEDIA**

Use: sand, alcohol resistant foam, carbon dioxide, chemical powder, water fog for larger fires.

Do NOT use water jet.

SPECIAL FIRE FIGHTING PROCEDURES

Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Exposure to decomposition products may be a hazard to health. Appropriate positive-pressure self-contained breathing apparatus (SCBA) and full fire fighting turn-out gear (Bunker gear) should be worn. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains, sewers, ditches or waterways.

UNUSUAL FIRE & EXPLOSION HAZARDS**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.

AUTO IGNITION TEMPERATURE 347 (658°F)

(°C)

FLAMMABILITY LIMIT - LOWER(%) 0.6

FLAMMABILITY LIMIT - UPPER(%) 7.0

FLASH POINT (°C) 51 (124°F) CC (Closed cup).

FLAMMABILITY CLASS

3.0 Combustible Liquid II

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Keep up-wind of spill to avoid breathing vapors. Avoid contact with eyes, skin and clothing. Refer to protective measures listed in Section 8.

ENVIRONMENTAL PRECAUTIONS

Prevent the product from entering into soil, drains, sewers, ditches or waterways in large quantities.

SPILL CLEAN UP METHODS

Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth and place into a suitable labeled container. Clean surfaces down with a water and detergent mixture. Refer to disposal methods listed in Section 13.

7 HANDLING AND STORAGE

BELZONA® 9111 (CLEANER/DEGREASER)

HANDLING

GENERAL

Keep the container tightly closed until ready for use. Avoid breathing vapor. Prevent air-borne concentrations higher than the occupational exposure limits (see Section 8). Exclude non-essential personnel. Minimise the number of employees exposed and the duration of their exposure. Avoid contact with eyes, skin and clothing. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see Section 8. Always keep in containers made of the same material as the supply container.

FIRE/EXPLOSION

This product is combustible. Exclude sources of heat, sparks and open flame. Vapors are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor with air. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. The product may charge electrostatically. Consideration should be given to the use of earthing leads when transferring from one container to another and anti-static footwear/clothing. Good housekeeping standards and regular safe removal of waste materials will minimise the risks of spontaneous combustion and other fire hazards. Ensure emergency equipment (for fires, spills, leaks, etc.) is readily available.

STORAGE

Observe the label precautions. Store between 5°C (41°F) and 30°C (86°F) unless otherwise stated in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Have appropriate fire extinguishers available in and near the storage area. Store separately from oxidizing agents and strongly alkaline and strongly acidic materials.

ENVIRONMENTAL STORAGE PRECAUTIONS

Spillage, incorrect storage of chemicals or waste materials or unsuitable disposal activities can result in pollutants seeping through the soil, causing serious harm to groundwater- which is a vital source of drinking water. All wastes especially liquid wastes, should be securely stored on site in designated areas that are isolated from waterways and groundwater and diked to contain any spillages.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)	STEL (15 min)	TWA (8-hrs)	STEL (15 min)
NAPHTHA (PETROLEUM), HEAVY ALKYLATE	SUP			1200 mg/m3	

INGREDIENT COMMENTS

Those occupational exposure limits that are marked 'SUP' are assigned by the supplier of the substance. Consult local authorities for acceptable exposure limits.

ENGINEERING MEASURES

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or vapors below the relevant occupational exposure limits, suitable respirators should be worn (see 'Respiratory Equipment' below).

RESPIRATORY EQUIPMENT

GENERAL GUIDANCE ON RESPIRATORY PROTECTION

It is essential that the concentration of the contaminant(s) in the application environment does not exceed the applicable occupational exposure limit(s) multiplied by the Assigned Protection Factor (APF) quoted for the respiratory protective equipment selected.

STANDARD APPLICATIONS

Where necessary, it is recommended that an OSHA/NIOSH approved air-purifying full facepiece or half-face respirator equipped with appropriate vapor/particulate cartridge(s) should be worn. Where the application environment is likely to be contaminated by significant concentrations of dust then the appropriate particulate prefilter (N-, R- or, P-series) should be worn in combination with the above. It is essential that the facepiece is correctly fitted and the filter is changed in accordance with the manufacturer's instructions.

APPLICATION OF SMALL QUANTITIES

Respirators are not normally required, but may be required where adequate ventilation cannot be achieved.

EMERGENCY SITUATIONS

Where entry into unknown or Immediately Dangerous To Life or Health (IDLH) atmospheres is required, an OSHA/NIOSH approved pressure-demand self-contained breathing apparatus (SCBA) with a full facepiece or a pressure-demand supplied-air respirator (SAR) with a full facepiece in combination with an auxiliary pressure-demand SCBA respirator should be worn.

HAND PROTECTION

GENERAL GUIDANCE ON HAND PROTECTION

The breakthrough time of the gloves selected should exceed the expected use period. Where this is not possible gloves should be changed in good time, and in any case before the breakthrough time is exceeded. Where doubt exists, advice should be sought from manufacturers or vendors of protective gloves in order to determine appropriate types for the particular circumstances. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

SPECIFIC RECOMMENDATIONS

Use protective gloves made of: Neoprene. Nitrile.

STANDARD APPLICATIONS / EMERGENCY SITUATIONS

Medium-heavy weight gauntlet type gloves that provide wrist protection are suitable.

APPLICATION OF SMALL QUANTITIES

Light weight disposable gloves are normally suitable.

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EYE PROTECTION

STANDARD APPLICATIONS

It is recommended that eye protection, for example safety glasses with side shields or goggles are worn at all times during the handling and use of this material.

EMERGENCY SITUATIONS

Refer to 'Respiratory Equipment' above.

OTHER PROTECTION

STANDARD APPLICATIONS

Synthetic polyethylene coveralls such as the Tyvek PRO-TECH® or equivalent coveralls manufactured to provide protection against liquid chemicals should be worn. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

APPLICATION OF SMALL QUANTITIES

Cotton overalls are normally suitable.

EMERGENCY SITUATIONS

Wear chemical resistant splash suit and boots made from neoprene or PVC, as appropriate.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Ensure eye wash facilities (fountain, bottle, vials, etc.) are readily available. Do not put contaminated articles or equipment e.g. spatulas, applicators, brushes, cloths etc., into pockets. Where necessary, contaminated work clothing and shoes should be removed to prevent cross contamination of surfaces and the risk of inadvertent skin contact and ingestion.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid.		
COLOR	Lightly colored.		
ODOR	Hydrocarbon.		
PHYSICAL DATA COMMENTS	This section contains typical values for Health, Safety and Environmental guidance only and is not intended to represent a technical specification for the product. LP = See Section 12.		
SOLUBILITY	Immiscible with water		
BOILING POINT (°C)	175-195 (347-383°F) @ 760 mm Hg	MELTING POINT (°C)	NIA
RELATIVE DENSITY	0.74 - 0.77 @ 16°C (60°F)	VAPOUR DENSITY (air=1)	>1
VAPOUR PRESSURE	0.07 kPa @ 20°C (68°F)	EVAPORATION RATE	0.1 BuAc=1
pH-VALUE, CONC. SOLUTION	N.ap	VISCOSITY	NIA
DECOMPOSITION TEMPERATURE (°C)	NIA	ODOR THRESHOLD, LOWER	NIA
FLASH POINT (°C)	51 (124°F) CC (Closed cup).	PARTITION COEFFICIENT (N-Octanol/Water)	LP
VOLATILE ORGANIC CONTENT	760 g/litre		

10 STABILITY AND REACTIVITY

STABILITY

Stable under recommended storage and handling conditions (see Section 7). In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide may be produced.

CONDITIONS TO AVOID

Keep away from oxidizing agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50	>7600 mg/kg (oral rat)
TOXIC DOSE 2 - LD 50	>3040 mg/kg (dermal rat)
TOXIC CONC. - LC 50	>5.9* mg/l/4h (inh-rat)

TOXICOLOGICAL INFORMATION

Remarks: *LC50 greater than the near-saturated vapor concentration. Chronic abuse of similar materials has been associated with irregular heart rhythms and cardiac arrest. Kidney effects were observed in male rats which are not considered relevant to humans.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The following information is provided on the basis of the individual component data available. The product should not be allowed to enter soil, drains, sewers, ditches and waterways or be deposited where it can affect ground or surface waters. See also Sections 5, 6, 7, 9 and 13.

BIOACCUMULATION

Log octanol/water partition coefficient (Log Pow) is estimated to be greater than 3.0.

BELZONA® 9111 (CLEANER/DEGREASER)

DEGRADABILITY

Oxidizes rapidly by photo-chemical reactions in air. Not expected to be inherently biodegradable.

ACUTE FISH TOXICITY

The products LC50/EC50/IC50 are expected to be greater than 100 mg/l in most sensitive species.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

GENERAL

Do NOT dump into any sewers, on the ground, or into any body of water. The product as shipped in its intended condition exhibits the following 'Characteristics' of hazardous waste as defined in 40 CFR 261.20-24: 'Ignitability'- RCRA Code: D001. Disposal must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations are the responsibility solely of the waste generator.

COMPONENT DISPOSAL

TRANSIT PACKAGING: shrink or stretch wrap, boxes and fittings that have not been contaminated with product should be re-used or recycled. UNUSED PRODUCT: empty uncleaned containers and contaminated packaging should be disposed of as hazardous chemical waste.

14 TRANSPORT INFORMATION

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 persons transporting the product know what to do in the event of accident or spillage.

DOT PROPER SHIPPING NAME

Paint related material

TDG SHIPPING NAME

Paint related material

DOT HAZARD CLASS

3

DOT PACKING GROUP

III

UN NO. SEA

1263

IMDG CLASS

3

IMDG PACK GR.

III

MARINE POLLUTANT

No.

UN NO. AIR

1263

AIR CLASS

3

AIR PACK GR.

III

TDG CLASS

3

TDG PACKING GROUP

III

15 REGULATORY INFORMATION

SARA (311/312) HAZARD CATEGORIES

Fire Chronic

REGULATORY STATUS (US)

This product is considered "Hazardous" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

U.S California Safe Drinking Water & Toxic Enforcement Act (Proposition 65): To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Toxic Substance Control Act (TSCA): All constituents of this product are included on the Inventory or are not required to be listed.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM -WHMIS

LABEL(S) FOR SUPPLY



Combustible
Liquid.

BELZONA® 9111 (CLEANER/DEGREASER)

CONTROLLED PRODUCT CLASSIFICATION

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CPR SECTION 33).

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

Canadian WHMIS Classification

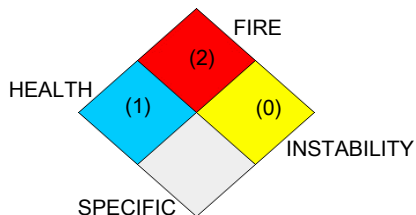
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REGULATORY STATUS (CANADA)

Domestic Substances List (DSL) & Non-Domestic Substances List (NDSL): All constituents of this product are present on the DSL or are not required to be listed.

16 OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



GENERAL INFORMATION

Throughout this Material Safety Data Sheet; NIA = No Information Available; N.ap = Not applicable.

REVISION COMMENTS

REVISION. This material safety data sheet has been revised in the following Section(s): All Sections. Replaces all previous versions.

Please observe the REVISION DATE. Should you be reading a material safety data sheet that is more than 24 months old or have concerns over its validity, please contact your local Belzona Distributor or Belzona direct (belzona@belzona.com) and the most current information will be sent to you.

REVISION DATE 10/25-2006

VERSION No. 1.0

SAFETY DATA SHEET STATUS

English (North American). Approved.

DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, some of the information presented and conclusions drawn are derived from sources other than direct test data on the product itself and while Belzona Inc. believes such sources to be reliable, the information is provided without any warranty regarding its correctness.

Since Belzona Inc. has no control over the conditions under which the product will be used, liability will not be assumed to exceed replacement or refund of the purchase price of this product. Except as stated herein, there are no express or implied warranties including implied warranties of merchantability or fitness for a particular purpose. Belzona Inc. assumes no liability for injury or incidental or consequential damage arising out of the storage, handling, use or, disposal of this product.