

Safety Data Sheet

Date of Revise: 2019.06.27

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product Name	B Clean Non-Solvent Cleaner 45ml
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Intended use	A pH neutral degreaser designed to remove grease, oil and other contaminants from various surfaces.
1.3. Details of the supplier of the safety data sheet	
Company Name	BARNEL® INTERNATIONAL, INC. 15220 NW LAIDLAW RD., SUITE 200, PORTLAND, OREGON 97229-7718, USA TEL: +1 (503) 291-1400
1.4. Emergency telephone number	
Emergency number	+1 (503) 291-1400

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture	
Adverse physicochemical, human health and environmental effects:	
Not classified.	
2.2. Label elements	
Hazard pictograms	None.
Signal word	None.
Hazard statements	The mixture does not meet the criteria for classification.
Precautionary statements	
- Prevention	Observe good industrial hygiene practices.
- Response	Wash hands after handling.
- Storage	Store away from incompatible materials.
- Disposal	Dispose of waste and residues in accordance with local authority requirements.
2.3. Other hazards	
None known.	

SECTION 3: Composition/information on ingredients

3.1. Substance		
NAME	CAS NO.	PERCENTAGE
Alcohols, Ethoxylated	68439-46-3	5 - 10
Sodium Gluconate	527-07-1	5 - 10
4-chloro-3-methylphenol Sodium Salt	15733-22-9	0.1 - 1
Sodium bicarbonate	144-55-8	0.1 - 1
Sodium Carbonate	497-19-8	< 0.1

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

4.1. Description of first aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
4.2. Most important symptoms and effects, both acute and delayed	
Direct contact with eyes may cause temporary irritation.	
4.3. Indication of any immediate medical attention and special treatment needed	
Treat symptomatically.	

SECTION 5: Firefighting measures

5.1. Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	
During fire, gases hazardous to health may be formed.	
5.3. Advice for firefighters	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Firefighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials
General fire hazards	No unusual fire or explosion hazards noted.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
Keep unnecessary personnel away.	
6.2. Environmental precautions	
Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.	
6.3. Methods and material for containment and cleaning up	
This product is miscible in water. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination	
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal protection.	

SECTION 7: Handling and storage

7.1. Precautions for safe handling	
Precautions for safe handling	Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	
Store in original tightly closed container.	

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Control parameters	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.2. Exposure controls

Eye/face protection	Wear safety glasses with side shields Eye/face protection (or goggles).
Hand protection	Wear appropriate chemical resistant gloves.
Skin protection	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical State	Liquid
Color	Colourless to light yellow.
Odor	Mild. Soapy.
Odor threshold	Not available.
pH	9.6
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	None
Evaporation rate	1 BuAc (Water = 1)
Flammability (solid, gas)	Not applicable.
Flammability limit – lower (%)	Not established
Flammability limit – upper (%)	Not established
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	18 mm Hg
Vapor density	Not established
Relative density	Not available.
Solubility (water)	100 Water soluble
Partition coefficient (n-octanol/water)	< 0
Auto-ignition temperature	Not established
Decomposition temperature	Not available.
Viscosity	Not established

9.2. Other information	
Density	8.67
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	85 - 87 %
Specific gravity	1.03
VOC	0 % per State and Federal Consumer Product Regulations

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable and non-reactive under normal conditions of use, storage Reactivity and transport.

10.2. Chemical stability

Material is stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Contact with incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Acute toxicity: Not expected to be acutely toxic.

Component	Species	Test Results
Alcohols, Ethoxylated (CAS 68439-46-3) Acute toxicity (Dermal) LD50	Rabbit	2000 mg/kg, 24 Hours
Sodium bicarbonate (CAS 144-55-8) Acute toxicity (Oral) LD50	Rat	> 4000 mg/kg
Sodium Carbonate (CAS 497-19-8) Acute toxicity (Dermal) LD50 Acute toxicity (Oral) LD50	Rabbit Rat	> 2000 mg/kg 2800 mg/kg

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.

Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Further information	This product has no known adverse effect on human health.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Aquatic Ecotoxicity

Component	Species	Test Results
Alcohols, Ethoxylated (CAS 68439-46-3) Crustacea EC50 Fish LC50	Water flea (<i>Daphnia magna</i>) Fathead minnow (<i>Pimephales promelas</i>)	2.9 - 8.5 mg/l, 48 hours 6 - 12 mg/l, 96 hours
Sodium bicarbonate (CAS 144-55-8) Fish LC50	Western mosquitofish (<i>Gambusia affinis</i>)	7550 mg/l, 96 hours
Sodium Carbonate (CAS 497-19-8) Crustacea EC50 Fish LC50	Water flea (<i>Ceriodaphnia dubia</i>) Bluegill (<i>Lepomis macrochirus</i>)	156.6 - 298.9 mg/l, 48 hours 300 mg/l, 96 hours

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

B-CLEAN < 0

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user,

	the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN	
14.1. UN number	
ADR	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
ADN	Not regulated as dangerous goods.
RID	Not regulated as dangerous goods.
14.2. UN proper shipping name	
ADR	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
ADN	Not regulated as dangerous goods.
RID	Not regulated as dangerous goods.
14.3. Transport hazard class(es)	
ADR	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
AND	Not regulated as dangerous goods.
RID	Not regulated as dangerous goods.
14.4. Packing group	
ADR	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
ADN	Not regulated as dangerous goods.
RID	Not regulated as dangerous goods.
14.5. Environmental hazards	
Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available.
14.6. Special precautions for user	
No further information.	
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
Not established	

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Canadian regulations: This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.
Controlled Drugs and Substances Act: Not regulated.
Export Control List (CEPA 1999, Schedule 3): Not listed.
Greenhouse Gases: Not listed.

Precursor Control Regulations: Not regulated.

International regulations:

Stockholm Convention: Not applicable.

Rotterdam Convention: Not applicable.

Kyoto protocol: Not applicable.

Montreal Protocol: Not applicable.

Basel Convention: Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Toxic Chemical Substances (TCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16 – OTHER INFORMATION

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.