

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product name: **SB1102**

Product Identifier: SB1102

Relevant identified uses: Solvent.

PECOM SERVICIOS ENERGÍA S.A

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SECTION 2 – HAZARDS IDENTIFICATION

Classification according to Globally Harmonized System.

Hazard pictogram(s):



Flammable liquids (Category 3)
Skin irritation (Category 2) – Eye irritation (Category 2A)
Carcinogenicity (Category 2)
Specific target organ toxicity – single exposure (Category 3)
Aspiration hazard (Category 1)
Short-term (acute) aquatic hazard (Category 2)
Long-term (chronic) aquatic hazard (Category 3)

Signal word: DANGER

Hazard statements:

H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H351 - Suspected of causing cancer.
H401 + H412 - Toxic to aquatic life with long lasting effects.

Precautionary statements:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 - Avoid breathing fume, mist, vapours and spray.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves.
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308 + P313 - IF EXPOSED OR CONCERNED: Get medical advice or attention.
 P332 + P313 - IF SKIN IRRITATION OCCURS: Get medical advice or attention.
 P337 + P313 - IF EYE IRRITATION PERSISTS: Get medical advice or attention.
 P370 + P378 - IN CASE OF FIRE: Use water spray, foam, dry chemical or carbon dioxide to extinguish.
 P403 + P235 - Store in a well-ventilated place. Keep cool.
 P405 - Store locked up.
 P501 - Dispose of contents and/or container in accordance with national and international regulations.

Additional information

There are no other additional hazards of consideration in the classification.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	% WEIGHT	CLASSIFICATION
Gas oil	60 - 80	Flam. Liquid 3; Skin Irrit. 2; Eye Irrit. 2A; Asp. Tox. 1; STOT Single Exp. 3; Aquatic Acute 2; Aquatic Chronic 2
2-Butoxyethanol	20 - 40	Flam. Liquid 4; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A

SECTION 5 – FIRST AID MEASURES

GENERAL ADVICE:	Avoid exposure to the product, taking appropriate protective measures. Get medical advice.
EYE CONTACT:	Immediately flush with water for at least 15 minutes, holding eyelids apart to ensure that all eye and lid tissues rinsed. Washing eyes within several seconds is essential to achieve maximum effectiveness. If you have contact lenses, remove them after the first 5 minutes, then continue rinsing eye. Get medical advice.
SKIN CONTACT:	Wash immediately after contact with soap and water for at least 15 minutes. Remove contaminated clothing and wash before reuse.
INHALATION:	For those providing assistance, avoid exposure. Use proper protection if necessary. Move victim and get fresh air. Keep calm. If not breathing, give artificial respiration. Get medical advice.
INGESTION:	DO NOT INDUCE VOMITING. Rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical advice. If vomiting occurs spontaneously, place victim on side to reduce the risk of aspiration.
SYMPTOMS:	Inhalation: may cause nausea, dizziness and headache. Skin contact: may cause irritation. Eye contact: may cause irritation. Ingestion: may cause nausea, vomiting and stomach upset.
MEDICAL ADVICE:	If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. For more information, contact a Poison Control Center.

SECTION 5 – FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:	Use dry chemical, foam, sand or CO ₂ . Use the product according to surrounding materials. DO NOT USE water jets.
FLASH POINT:	53°C (127,4°F) - PMCC
FLAMMABLE LIMITS:	N/D
SPECIAL HAZARDS:	FLAMMABLE. The container subjected to heat may explode unexpectedly and project dangerous fragments. Vapours are heavier than air, and may spread along floors. In case of fire may release irritating and/or toxic fumes and gases, such as carbon monoxide and other substances derived from incomplete combustion.
SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:	Use self-contained breathing apparatus. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. For large spills wear protective clothing against chemicals, which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
ADVICE FOR FIREFIGHTERS:	Spray the packaging with water to avoid ignition or to keep them cool if exposed to excessive heat or fire. Cool containers with water until the fire has extinguished. Prevent water used for fire control or dilution from entering watercourses, drains or springs. The hot material can cause violent eruptions when it comes in contact with the water, being able to project itself and cause serious burns.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	Eliminate all ignition sources (no smoking, do not use flares, sparks or flames in immediate area). Stop leak if you can do it without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Foam can be used to reduce vapours. Do not allow reuse of spilled product.
ENVIRONMENTAL PRECAUTIONS:	Contain spilled liquid with a dam or barrier. Prevent entry into navigable waterways, sewers, basements or uncontrolled confined areas.
CONTAINMENT AND CLEANING UP:	Contain and recover the liquid when possible. Collect the liquid product with sand, vermiculite, earth or inert absorbent material and then completely clean the affected area. Dispose of the waste properly.

SECTION 7 – HANDLING AND STORAGE

Do not eat, drink or smoke during handling. Avoid contact with eyes, skin and clothing. Wash arms, hands, and nails after handling. Facilitate access to safety showers and eyewash emergency.
Use equipment and clothing that prevents the accumulation of electrostatic charges. Monitor and avoid explosive atmosphere formation.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Store in a clean, dry, well-ventilated area. Protect from sunlight. Containers, even those that have been emptied, may contain vapors. Do not cut, drill, grind, weld or perform similar operations on or near empty containers.
Keep away from Oxidizing and non-oxidizing mineral acids, organic acids, azo and diazo compounds,

isocyanates, nitrides, peroxides and organic hydroperoxides, epoxides, strong oxidizing agents and strong reducing agents.

Material appropriate packaging: Supplied by the manufacturer.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS:	REL: 5 mg/m ³ , hydrocarbons mist 5 ppm; butyl glycol REL-STEL: 10 mg/m ³ , hydrocarbons mists TLV-TWA (ACGIH): 1 mg/m ³ , hydrocarbons mist 20 ppm; butyl glycol TLV-STEL (ACGIH): 5 mg/m ³ , hydrocarbons mist PEL (OSHA): 5 mg/m ³ , hydrocarbons mist 50 ppm; butyl glycol IDLH (NIOSH): 2500 mg/m ³ , hydrocarbon mists 700 ppm; butyl glycol
EXPOSURE CONTROLS:	Keep workplace ventilated. The normal routine ventilation is usually adequate. Use local hoods for operations that produce or release large amounts of product. In low or confined areas provide mechanical ventilation. Provide showers and eyewash stations near workplace.
PERSONAL PROTECTION EQUIPMENT, INHALATION:	When necessary, wear an oil-proof respirator. Pay special attention to oxygen levels in the air. If large releases occur, wear self-contained breathing apparatus (SCBA).
SKIN PROTECTION:	When necessary, wear impermeable protective PVC, nitrile or butyl gloves (complying with standards EN 374), clothes and safety footwear resistant to chemicals.
EYE AND FACE PROTECTION:	When necessary, wear chemical splash-proof safety glasses (complying with EN 166).

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid.
COLOR:	N/D
ODOUR:	Hydrocarbon.
ODOUR THRESHOLD:	N/D
pH:	5,5 ± 1,0 (5% alcoholic)
MELTING POINT:	< -16°C (3,2°F)
BOILING POINT:	N/D
FLASH POINT:	53°C (127,4°F) - PMCC
EVAPORATION RATE:	N/D
AUTO-IGNITION TEMPERATURE:	N/D
EXPLOSIVE LIMITS:	N/D
VAPOUR PRESSURE (20°C):	N/D
VAPOUR DENSITY (AIR=1):	N/D

RELATIVE DENSITY (20°C):	0,852 ± 0,030 g/cm ³
SOLUBILITY (20°C):	Insoluble in water. Soluble in organic solvents.
HENRY CONSTANT (20°C):	N/D
PARTITION COEFF. (logKo/w):	N/D
VISCOSITY (40°C):	N/D
EXPLOSIVE PROPERTIES:	Not explosive. According to column 2 of Annex VII of REACH, this study is not required because in the molecule no chemical groups are associated with explosive properties.
OXIDIZING PROPERTIES:	According to column 2 of Annex XVII of REACH, this study is not necessary because the substances present in the product, due to their chemical structures, are incapable of reacting exothermically with combustible materials.
OTHER PROPERTIES:	Refractive index: 1,454 ± 0,010

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY:	It is not expected that product reactions or decomposition may occur under normal storage conditions. It does not contain organic peroxides. It is not corrosive to metals. Does not react with water.
CHEMICAL STABILITY:	The product is chemically stable and does not require stabilizers.
HAZARDOUS REACTIONS:	No hazardous polymerization is expected.
CONDITIONS TO AVOID:	Avoid high temperatures, open flames, sparks and other sources of ignition.
HAZARDOUS DECOMPOSITION PRODUCTS:	When heated, it may release toxic and irritating vapors. In case of fire, see section 5.
INCOMPATIBLE MATERIALS:	Oxidizing and non-oxidizing mineral acids, organic acids, azo and diazo compounds, isocyanates, nitrides, peroxides and organic hydroperoxides, epoxides, strong oxidizing agents and strong reducing agents.

SECTION 11 – TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE:	Inhalation, skin and eye contact.
ACUTE EFFECTS:	Inhalation: may cause nausea, dizziness and headache. Skin contact: may cause irritation. Eye contact: may cause irritation. Ingestion: may cause nausea, vomiting and stomach upset.
CARCINOGENICITY, MUTAGENICITY AND REPRODUCTION TOXICITY:	<p>Carcinogenicity: The oil cut used in the product formulation may contain components that are classified as a possible human carcinogen (group 2B) by the International Agency for Research in Cancer .</p> <p>Mutagenicity: There are no components in this product that classify as mutagens according to the GHS.</p> <p>Tox Repr .: There are no components of this product that are classified as toxic for reproduction according to the GHS with effects on sexual function and fertility.</p> <p>Teratogenicity: There are no components of this product that classify as toxic for reproduction according to the GHS with effects on the development of the descendants.</p> <p>STOT-SE: May cause narcotic effects, drowsiness and dizziness.</p> <p>STOT-RE: There are no components of this product that are classified as toxic to target organs after</p>

prolonged or repeated exposure according to the GHS.

Aspiration: Some components of this product are toxic by aspiration, and in the absence of viscosity data, it is classified as dangerous by aspiration.

ANIMAL TOXICITY VALUES:

There is no information about the toxicity of the product, but acute toxicity estimations are presented.

ATE-LD50 oral (calc.): > 2000 mg/kg

ATE-LD50 der (calc.): > 2000 mg/kg

ATE-LC50 inh. (calc.): > 5 mg/l

Skin irr. (rabbit, estim.): irritant

Eye irr. (rabbit, estim.): irritant

Skin sens (Guinea pig, estim.): not sensitising

Resp. sens (Guinea pig, estim.): not sensitizing

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY:	<p>There is no information about the ecotoxicity of the product, but acute toxicity estimations are presented.</p> <p>ATE-EC50 (fish, calc., 96 h): 1 - 10 mg/l</p> <p>ATE-EC50 (inv., calc., 48 h): 1 - 10 mg/l</p> <p>ATE-EC50 (algae, calc., 72 h): 1 - 10 mg/l</p> <p>ATE-NOEC (fish, calc., 14 d): 0,1 - 1,0 mg/l</p> <p>ATE-NOEC (inv., calc., 14 d): 0,1 - 1,0 mg/l</p>
PERSISTENCE AND DEGRADABILITY:	<p>BIODEGRADABILITY (calculated): According to calculations based on the composition, the product is expected to be partially biodegradable.</p> <p>PNEC (water): N/D</p> <p>PNEC (sea water): N/D</p> <p>PNEC-STP: N/D</p>
BIOACCUMULATIVE POTENTIAL:	<p>Log Ko/w (OCDE 107 o 117): N/D</p> <p>BIOCONCENTRATION FACTOR - BCF (OCDE 305): N/D. There are no product data to estimate the bioaccumulation in living organisms or the incidence in the food chain.</p>
MOBILITY IN SOIL:	<p>HENRY CONSTANT (20°C): N/D</p> <p>LogKoc: N/D</p>
OTHER ADVERSE EFFECTS:	Does not contain organic halogens nor metals.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of excess product and empty containers according to current legislation for the protection of the environment and hazardous waste. Disposal procedure: incineration.

SECTION 14 – TRANSPORT INFORMATION

TRANSPORT BY LAND

Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (contains gas oil)
UN/ID Number:	1993
Hazard class:	3
Packing group:	III
Hazard identification number:	30
Excepted and limited quantity:	1000 / 5 L



Special provisions:	223 - 274
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AIR TRANSPORT (ICAO/IATA)

Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (contains gas oil)
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UN/ID Number:	1993
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Hazard class:	3
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Packing group:	III
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PAX and Cargo Packing instructions:	Y343; 2L / 355; 60L
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Cargo Packing instructions:	366; 220L
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ERC:	3L
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Special provisions:	-
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**SEA TRANSPORT (IMO)**

Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (contains gas oil)
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UN/ID N°:	1993
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Hazard class:	3
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Packing group:	III
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EMS:	F-E, S-E
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Stowage and manipulation:	Category E
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Segregation:	-
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Marine pollutant:	NO
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Proper Shipping Name: UN1993; FLAMMABLE LIQUID, N.O.S. (contains gas oil); Class 3; PG III; Flash point 53°C (127,4°F) c.c.

**SECTION 15 – REGULATORY INFORMATION**

Regulations and safety legislation specific for the substance or mixture:

Not dangerous for the ozone layer.

Volatile organic compounds (VOC's): N/D

Globally Harmonized System of Classification and Labelling of Chemicals, fifth revised edition, 2013 (GHS 2013 - 'ST / SG / AC 10/30 / Rev.5'). The fifth edition is taken into consideration because it is the one valid for Argentina according to Resolution 801/2015 of the SRT. In any case, the information is contrasted with Revision 7 ('ST / SG / AC 10/30 / Rev.7') and clarification is made if required.

Agreement on Transport of Dangerous Products within the MERCOSUR, MERCOSUR\CMC\DEC N° 2/94.

European Agreement on the International Carriage of Dangerous Goods by Road (ADR 2019) and amendments.

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID 2019) and amendments.

International Maritime Dangerous Goods Code (IMDG 2018 - Amendment 39-18), International Maritime Organization (IMO).

IBC Code 2016, IMO, IMO Resolution MSC.369 (93).

Regulations of the International Air Transport Association (IATA 60 ed., 2019) on the transport of dangerous goods by air.

SECTION 16 – OTHER INFORMATION

ACGIH: American Conference of Governmental Industrial Hygienists.

ATE: Acute toxicity estimate.

CAS: Chemical Abstracts Service.

CMP: maximum concentration allowed.

CMP-C: maximum concentration allowed, ceiling concentration.
CMP-CPT: maximum concentration allowed, short time period.
EC: effect concentration.
EC50: Average Effective Concentration.
EMS: Emergency management sheet.
ERC: Emergency response card.
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IARC: International Agency for Research on Cancer.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organization.
IDLH: Immediately dangerous to life or health
IMDG: International Maritime Dangerous Goods.
IMO: International Maritime Organization.
LC: Lethal concentration.
LD: Lethal dose.
Log Ko/w: octanol-water partition coefficient.
Log Koc: organic carbon to water partition coefficient.
MTESS: Ministry of Labor, Employment and Social Security, Argentina.
N/A: not applicable.

N/D: no data available.
NFPA: National Fire Protection Association.
NIOSH: National Institute for Occupational Safety and Health
NOEC: No observed effect concentration.
OECD: Organisation for Economic Co-operation and Development.
OSHA: Occupational Safety and Health Administration.
PAX: Passengers.
PBT: persistent, bioaccumulative or toxic criteria.
PEL: Permissible Exposure Limit.
PMCC: Pensky Martens closed cup
PNEC: Predicted No Effect Concentration
PNEC-STP: Predicted No Effect Concentration – sewage treatment plant.
PPE: Personal protection equipment.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals - Europa.
REL: Recommended Exposure Limit.
SRT: Superintendence of Labor Risks, Argentina.
STEL: Short Term Exposure.
TLV: Threshold Limit Value.
UN: United Nations.
vPvB: very persistent or very bioaccumulative.

Key literature references and sources for data

International Agency for Research on Cancer (IARC), carcinogen classification.
European Regulation 1272/2008, Classification, labelling and packing (CLP)
European Agreement on the International Carriage of Dangerous Goods by Road (ADR 2019) and amendments.
Regulations concerning the International Carriage of Dangerous Goods by Rail (RID 2019) and amendments.
International Maritime Dangerous Goods Code (IMDG 2018 - Amendment 39-18), International Maritime Organization (IMO).
IBC Code 2016, IMO, IMO Resolution MSC.369 (93).
Regulations of the International Air Transport Association (IATA 60 ed., 2019) on the transport of dangerous goods by air.

The classification was performed based on chemical analogues and product information compiled by CIQUIME.

SECTION 2: classification by analogy with other products, and based on product data in CIQUIME database.

SECTION 9: product data.

SECTION 11 and 12: calculation of acute toxicity estimation according to GHS, product data and bibliographic data.

Change's control: v.2 - Actualization of phrases and format.

v.1 - Adaptation to the GHS.

HEALTH	1
FLAMMABILITY	3
REACTIVITY	0
TARGET ORGANS	0



Obligatory safety goggles.



Obligatory gloves.



Obligatory overall.

The information in this document refers to the product, and not to another product or process that involves it. This document provides health and safety information. The information is correct and complete according to our knowledge. It is provided in good faith, but without guarantee. Use the product according to the recommendations for use. If you use this product you should be informed of the recommended safety precautions and should have access to this information. For any other use, evaluate exposure and implement appropriate handling measures and training programs to ensure safe operations in the workplace.

It remains your responsibility that this information is appropriate and complete for the use of the product.

Version: 2
Replaces: 1
Created: CIQUIME

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