

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Product name: **PEB692**
 Product Identifier: PEB692
 Relevant identified uses: Emulsifier.

BOLLAND Y CÍA. S.A.U.

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SECTION II – HAZARDS IDENTIFICATION

Classification according to Globally Harmonized System.

Hazard pictogram(s):



Skin irritation (Category 2) – Eye irritation (Category 2A)

Signal word: **WARNING**

Hazard statements: H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.

Precautionary statements: P264 - Wash thoroughly after handling.
 P280 - Wear protective gloves.
 P302 + P352 - IF ON SKIN: Wash with plenty of water.
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332 + P313 - IF SKIN IRRITATION OCCURS: Get medical advice or attention.
 P337 + P313 - IF EYE IRRITATION PERSISTS: Get medical advice or attention.
 P362 + P364 - Take off contaminated clothing and wash it before reuse.

Additional information

The product can generate slippery surfaces. Avoid spilling.

SECTION III - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS N°	% WEIGHT	CLASSIFICATION
Alkanes (C15-C50)	8042-47-5	25 - 45	Asp. Tox. 1
Fatty acids (C12-C18)	84625-38-7	20 - 35	Not Classified
Fatty acids and 2,2'-iminobis(ethyleneamine) derivs.	12379-40-7	20 – 55	Skin Irrit. 2; Eye Irrit. 2A

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Replace:		Revised:	BOLLAND Y CÍA. S.A.U.
Created:	CIQUIME		

SECTION IV – 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. DO NOT use kerosene, gasoline or organic solvents to remove the product. Use a paper embed in kitchen oil. Remove contaminated clothing. Launder contaminated clothing before reuse. For minor thermal burns: Cool the burn. Hold the burned area under cold running water for at least five minutes, or until the pain subsides. However, body hypothermia must be avoided. Do not use ice. Do not remove clothing stuck to the skin, cut around the area.
INHALATION:	Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. 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 irritation in case of inhalation of mists. Skin contact: may cause irritation or dermatitis in case of prolonged or repeated exposure. Eye contact: may cause eye irritation. Ingestion: may cause nausea, vomiting and diarrhea.
MEDICAL ADVICE:	Provide symptomatic treatment. For more information, contact a Poison Control Center.

SECTION V – FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:	Use dry chemical, foam, sand or CO ₂ . Use the product according to surrounding materials. DO NOT USE water jets. The use of water can cause frothing, or product spillage by violent boiling of water added.
FLASH POINT:	> 93°C (200°F)
FLAMMABLE LIMITS:	N/D
SPECIAL HAZARDS:	NOT FLAMMABLE. The liquid may burn but will not ignite easily. 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:	<p>Spray the containers with water to keep them cold.</p> <p>Cool containers with water until the fire has extinguished.</p> <p>Prevent water used for fire control or dilution from entering watercourses, drains or springs.</p> <p>The hot material can cause violent eruptions when it comes in contact with the water, being able to project itself and cause serious burns.</p>
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SECTION VI – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	<p>Eliminate all ignition sources (no smoking, do not use flares, sparks or flames in immediate area). Evacuate personnel to a ventilated area. Ventilate immediately, especially where product may accumulate. Do not allow reuse of spilled product.</p>
ENVIRONMENTAL PRECAUTIONS:	<p>Contain spilled liquid with a dam. Prevent entry into waterways, sewers, basements or confined areas.</p> <p>Hazard of significant physical contamination in case of spillage on coastlines, beaches, soil, etc. due to its floatability and oily consistency.</p> <p>Avoid the entry of the product into sewers and water sources.</p> <p>Spills form a film on the water surface not allowing oxygen transfer.</p>
CONTAINMENT AND CLEANING UP:	<p>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.</p>

SECTION VII – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	<p>Do not eat, drink or smoke during handling. Avoid contact with eyes, skin and clothing. Wash after handling.</p>
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:	<p>Store in a clean, dry, well-ventilated area. Protect from sunlight. Keep containers/packages closed.</p> <p>Keep away from Oxidizing mineral acids and strong oxidizing agents.</p> <p>Material appropriate packaging: Supplied by the manufacturer.</p>

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS:	<p>REL: 5 mg/m³, oil mists</p> <p>REL-STEL: 10 mg/m³, oil mists</p> <p>TLV-TWA (ACGIH): 1 mg/m³, oil mists</p> <p>TLV-STEL (ACGIH): 5 mg/m³, oil mists</p> <p>PEL (OSHA): 5 mg/m³, oil mists</p> <p>IDLH (NIOSH): 2500 mg/m³, oil mists</p>
EXPOSURE CONTROLS:	<p>Keep workplace ventilated. The normal routine ventilation is usually adequate. Local hoods should be used for operations that produce or release large amounts of product. In low or confined areas should be provided mechanical ventilation. Provide showers and eyewash stations.</p>
PERSONAL PROTECTION EQUIPMENT, INHALATION:	<p>When necessary, wear an oil-proof respirator. Special attention to oxygen levels in the air should be paid.</p> <p>If large releases occur, wear self-contained breathing apparatus (SCBA).</p>
SKIN PROTECTION:	<p>When necessary, wear impermeable protective PVC, nitrile or butyl gloves (complying with standards EN 374), clothes and safety footwear resistant to chemicals.</p>

EYE AND FACE PROTECTION: When necessary, wear chemical splash-proof safety glasses (complying with EN 166).

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid.
COLOR:	N/D
ODOUR:	N/D
ODOUR THRESHOLD:	N/D
pH:	4,5 ± 1,0 (5% sol.)
MELTING POINT:	-15°C (5°F)
BOILING POINT:	N/D
FLASH POINT:	> 93°C (200°F)
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):	0,884 ± 0,03 g/cm ³
SOLUBILITY (20°C):	N/D
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:	Refraction index: 1,4685 ± 0,01

SECTION X – 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. It does not react chemically with water, but contact with hot material can cause violent boiling of 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.

HAZARDOUS DECOMPOSITION PRODUCTS:	When heated, it may release toxic and irritating vapors. In case of fire, see section 5.
INCOMPATIBLE MATERIALS:	Oxidizing mineral acids and strong oxidizing agents.

SECTION XI – TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE:	Inhalation, skin and eye contact.
ACUTE EFFECTS:	Inhalation: may cause irritation in case of inhalation of mists. Skin contact: may cause irritation or dermatitis in case of prolonged or repeated exposure. Eye contact: may cause eye irritation. Ingestion: may cause nausea, vomiting and diarrhea.

CARCINOGENICITY AND MUTAGENICITY:

Carcinogenicity: The product is not classified as a carcinogen because it contains an oil cut with a low content of polycyclic aromatic hydrocarbons.

Mutagenicity: The oil cut used in the product formulation does not contain components that are classified as mutagenic by the GHS.

Tox Repr .: The oil cut used in the formulation of the product does not contain components that are classified as toxic for reproduction by the GHS with effects on sexual function and fertility.

Teratogenicity: The cut of oil used in the formulation of the product does not contain components that are classified as toxic for the reproduction by the GHS with effects on the development of the descendants.

STOT-SE: There are no components of this product that are classified as toxic to target organs by unique exposures according to the GHS.

STOT-RE: There are no components of this product that are classified as toxic to target organs after prolonged or repeated exposure according to the GHS.

Aspiration: Some components of this product are toxic by aspiration, but the product has a viscosity greater than 20.5 cSt at 40 °C, so it is not 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.): > 5000 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 XII – ECOLOGICAL INFORMATION

ECOTOXICITY:	It can be harmful to aquatic organisms due to the formation of a film on the surface of the water that prevents the transfer of oxygen. ATE-EC50 (fish, calc., 96 h): > 100 mg/l ATE-EC50 (inv., calc., 48 h): > 100 mg/l ATE-EC50 (algae, calc., 72 h): > 100 mg/l ATE-NOEC (fish, calc., 14 d): > 1 mg/l ATE-NOEC (inv., calc., 14 d): > 1 mg/l
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PERSISTENCE AND DEGRADABILITY:	BIODEGRADABILITY (calculated): According to calculations based on the composition, the product is expected to be partially biodegradable. PNEC (water): N/D PNEC (sea water): N/D
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BIOACCUMULATIVE POTENTIAL:	Log Ko/w (OCDE 107 o 117): N/D BIOCONCENTRATION FACTOR - BCF (OCDE 305): N/D
MOBILITY IN SOIL:	HENRY CONSTANT (20°C): N/D LogKoc: N/D
OTHER ADVERSE EFFECTS:	Does not contain organic halogens nor metals.

SECTION XIII – DISPOSAL CONSIDERATIONS

Both the excess product and empty containers should be disposed of in accordance with current legislation regarding the Protection of Environment and particularly of hazardous waste. Waste should be classified and disposed by an authorized company.

Empty containers may contain residue and thus be dangerous. Do not attempt to refill or clean containers without appropriate instructions.

SECTION XIV – TRANSPORT INFORMATION

TRANSPORT BY LAND

Proper Shipping Name:	NOT CLASSIFIED AS A DANGEROUS GOODS
UN/ID Number:	NOT CLASSIFIED AS A DANGEROUS GOODS
Hazard class:	NOT CLASSIFIED AS A DANGEROUS GOODS
Packing group:	NOT CLASSIFIED AS A DANGEROUS GOODS
Hazard identification number:	NOT CLASSIFIED AS A DANGEROUS GOODS
Excepted and limited quantity:	NOT CLASSIFIED AS A DANGEROUS GOODS
Special provisions:	NOT CLASSIFIED AS A DANGEROUS GOODS

AIR TRANSPORT (ICAO/IATA)

Proper Shipping Name:	NOT CLASSIFIED AS A DANGEROUS GOODS
UN/ID Number:	NOT CLASSIFIED AS A DANGEROUS GOODS
Hazard class:	NOT CLASSIFIED AS A DANGEROUS GOODS
Packing group:	NOT CLASSIFIED AS A DANGEROUS GOODS
PAX and Cargo Packing instructions:	NOT CLASSIFIED AS A DANGEROUS GOODS
Cargo Packing instructions:	NOT CLASSIFIED AS A DANGEROUS GOODS
ERC:	NOT CLASSIFIED AS A DANGEROUS GOODS
Special provisions:	NOT CLASSIFIED AS A DANGEROUS GOODS

SEA TRANSPORT (IMO)

Proper Shipping Name:	NOT CLASSIFIED AS A DANGEROUS GOODS
UN/ID N°:	NOT CLASSIFIED AS A DANGEROUS GOODS
Hazard class:	NOT CLASSIFIED AS A DANGEROUS GOODS
Packing group:	NOT CLASSIFIED AS A DANGEROUS GOODS
EMS:	NOT CLASSIFIED AS A DANGEROUS GOODS
Stowage and manipulation:	NOT CLASSIFIED AS A DANGEROUS GOODS
Segregation:	NOT CLASSIFIED AS A DANGEROUS GOODS
Marine pollutant:	NO

Proper Shipping Name: NOT CLASSIFIED AS A DANGEROUS GOODS

SECTION XV – 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 XVI – OTHER INFORMATION

ACGIH: American Conference of Governmental Industrial Hygienists.

BCF: Bioconcentration Factor

CAS: Chemical Summary Service

EC50: Average Effective Concentration.

LC50: Average Lethal Concentration.

LD50: Mean lethal dose.

ATE: acute toxicity estimation.

IARC: International Agency for Research on Cancer

IDLH: Concentration immediately dangerous to life or health

INSHT: National Institute for Occupational Safety and Health.

N/D: no information available at the time of the SDS.

NIOSH: National Institute for Occupational Safety and Health

OECD: Organization for Economic Cooperation and Development

PEL: Permissible Exposure Limit.

PNEC: Predicted no-effect concentration

REL: Recommended Exposure Limit.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TWA: Time Weighted Average

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.

SECTION 9: product data.

SECTION 11 and 12: analogy with other products.

Acute toxicity: calculation method for estimating acute toxicity.

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
TARGET ORGANS	1



Obligatory safety goggles.



Obligatory gloves.



Obligatory overall.

The information and recommendations given here are to our knowledge correct and is the responsibility of each user to determine whether they are accurate, appropriate and complete for its particular use. The conditions and / or methods of handling, storage, use and disposal of the product are beyond our control and perhaps of our knowledge. For these and other reasons our company is not liable for loss, damage or caused or related to the handling, storage, use or disposal of this product costs. Our company is not responsible for any damage or incident, direct or indirect, of any nature that may result from the use of this information. Any information not contained in this SDS must be understood as undetermined or unknown.

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Replaces:

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Revised: BOLLAND Y CÍA. S.A.U.