



DERIVADOS ASFÁLTICOS NORMALIZADOS, S.A.

Version 1

First edition: 16/03/2017

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VOLUNTARY SAFETY DATA SHEET (VSDS)

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In accordance with Regulation (CE) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006, concerning the registration, evaluation, authorization and restriction of chemical substances and preparations (REACH), any substance Hazardous or mixture containing more than 1% of any classified substance or appears on the candidate list published by the European Chemicals Agency must be subject to a Safety Data Sheet, called SDS and its corresponding specific labeling.

According to the aforementioned regulation, thermoplastic sheets supplied in rolls are not subject to the publication of an SDS and therefore not to a specific labeling. However, DANOSA provides users of its products with a Voluntary Safety Data Sheet, called FVDS, based on the same 16 points indicated in the REACH SDS, to inform about the correct handling of these products during storage, transport and installation.

SECTION 1. Identification of the substance or mixture and of the company or company.

1.1. Product identifier.

Denomination: **Thermoplastic sheets supplied in rolls**

1.2. Relevant identified uses.

Description/Use: **Waterproofing sheets for building and civil works to unwind and weld or adhere. For complementary products such as adhesives, fixing profiles, prefabricated elements, mechanical fasteners, the corresponding safety data sheets must be taken into account.**

Identified uses	Industrial	Professional	Consumer
Waterproofing	✔	✔	✔

1.3. Details of the supplier of the safety data sheet.

Business name: **DERIVADOS ASFÁLTICOS NORMALIZADOS, S.A.**
Address: **CALLE LA GRANJA, 3**
City / Country: **28108 ALCOBENDAS (MADRID)**
SPAIN
Phone number. **+34 949 888 210**

e-mail: **info@danosa.com**
Responsible for the issuance in the market: **DERIVADOS ASFÁLTICOS NORMALIZADOS, S.A.**

1.4. Emergency phone.

For urgent information go to. **+34 949 888 210 – QUALITY DEPARTMENT**

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is not classified as dangerous according to the provisions of Regulation (CE) 1272/2008 (CLP) (and subsequent modifications and adaptations).

Hazard classification and indication:

2.2. Label elements.

Danger pictograms: Does not apply

Warning words: Does not apply

Hazard Indications: Does not apply

Precautionary statements: Does not apply

The product does not require hazard labeling in accordance with Regulation (CE) 1272/2008 (CLP) and subsequent modifications and adaptations.



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2.3. Other hazards.

Health risks: Acute irritation of the nose and throat is possible during heat treatment and product application, especially in indoor or poorly ventilated environments, due to the inhalation of potentially dangerous substances such as gas and generated vapors.

Safety risks: The molten product can adhere to the skin and cause burns. The presence of flammable materials can cause fires.

Environment risks: The sheets can cause long-term adverse effects because their components are not biodegradable.

SECTION 3. Composition / information on the components.

3.1. Substances.

The product does not contain substances classified as dangerous for health or for the environment, according to the provisions of Regulation (EU) 1272/2008 (CLP) (and subsequent modifications and adaptations), in quantities such that require their declaration.

It does not contain prohibited or restricted substances according to Annex XVII of Regulation (CE) 1907/2006, nor in Candidate List (Art. 59 REACH). Nor does it contain substances subject to authorization according to Annex XIV of REACH, nor subject to the Rotterdam and Stockholm Conventions, nor subject to an export notification obligation according to Reg. (EC) 649/2012.

3.2. Mixes.

Information not relevant.

3.3. Information about the components

Plasticized polyvinyl chloride (PVC) or thermoplastic flexible poly-olefins (TPO / FPO) added by high molecular weight organic or inorganic stabilizers.

SECTION 4. First aid.

4.1. Description of first aid.

Not specifically necessary. It is advised to respect the rules of good industrial hygiene and no special first aid measures are required.

Inhalation: There are no relevant inhalation risks for outdoor work. Vapors or decomposition emissions of the product may accidentally be inhaled during heat application.

Skin contact: Do not use diesel or solvents or thinners. There is a risk of burns when the thermoplastic material melts due to the application of heat. In this case, immerse the burned area in fresh water for at least 10 minutes. Do not try to take off your clothes. Never try to remove the thermoplastic material from the skin. Ask for medical help to undo and treat burns.

Eye contact: There is a risk of burning when thermoplastic material melts due to the application of heat. In case of contact with the eyes, wash immediately with fresh water for at least 15 minutes and consult a specialist. Do not remove the product from eye contact. In case of smoke irritation, wash with cold water.

Ingestion: not applicable.

4.2. Main symptoms and effects, acute and delayed.

There are no known harmful episodes attributable to the product.

4.3. Indication of all medical attention and special treatments to be given immediately.

In the case burns due to contact with a hot material.



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SECTION 5. Fire fighting measures.

5.1. Extinguishing media.

IDENTIFIC EXTINGUISHING MEDIA

Extinguishing media are the traditional ones: carbon dioxide, foam, powders and water mist.

MEANS OF EXTINCTION NOT FIT

None in particular.

5.2. Special hazards arising from the substance or mixture.

DANGERS DUE TO EXPOSURE IN CASE OF FIRE

Avoid breathing combustion products.

5.3. Recommendations for firefighters.

GENERAL INFORMATION

Cool the containers with water jets to avoid the decomposition of the product and the formation of substances potentially dangerous to health. Always wear full fire protection equipment. Collect the water used for extinction, which should not be discharged into sewers. Dispose of contaminated water used for extinction and fire residues according to current regulations.

TEAM

Normal elements for fire fighting, such as an autonomous compressed air respirator with open circuit (EN 137), fire retardant suit (EN469), fire retardant gloves (EN 659) and fire boots (HO A29 or A30).

SECTION 6. Measures in case of accidental spillage.

6.1. Personal precautions, protective equipment and emergency procedures.

Use appropriate protective devices (including personal protective equipment indicated in section 8 of the safety data sheet), to prevent contamination of skin, eyes and personal clothing. These indications are valid both for processors and for emergency interventions.

6.2. Environmental precautions.

If the product is liquid Prevent the product from reaching the sewer, surface water and groundwater.

6.3. Methods and material for containment and cleaning.

Vacuum spilled product in a suitable container. If the product is flammable, use an anti-deflagrant device. Evaluate the compatibility of the product with the container to be used, referring to section 10. Absorb the remaining product with inert absorbent material. Proceed with sufficient ventilation of the place affected by the loss. Disposal of contaminated material must be carried out according to the provisions of point 13.

6.4. Reference to other sections.

Any information on individual protection and disposal is available in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Handle the product after consulting all other sections of this safety data sheet. Avoid dispersion of the product in the environment. Do not eat, drink or smoke during use. It does not require any special means other than protective gloves. To handle 25 kg rolls, mechanical handling tools or manual handling tools must be used, avoiding each worker to load more than 25 kg. Normal handling techniques and appropriate gestures should be applied. Adequate ventilation should be provided when the product is applied indoors or poorly ventilated.

7.2. Conditions for safe storage, including any incompatibilities.

Keep the product in the original packaging clearly labeled. Keep containers away from any incompatible materials, checking section 10. Store rolls horizontally and without stacking. Protect the material from heat and direct sunlight to maintain a temperature between 0 ° and 50 ° C. It is not necessary to take precautionary measures to avoid the formation of static electricity. For safe storage follow the specific storage recommendations for this product. The presence of flame or heat sources is prohibited. Keep turning off the available media (point 5).



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7.3. Specific end uses.

To weld, gloves whose material cannot melt (for example skin) should be chosen. Applications must be made following the "technical instructions" provided by the manufacturer, according to the principles of good technique and safety (point 8,16). In case of indoor use or poorly ventilated enclosures, wear Personal Protective Equipment (item 8) and avoid the presence of flame or heat sources.

SECTION 8. Exposure controls / personal protection.

8.1. Control parameters.

Exposure limit: not applicable. Technical measures: for works in confined areas, install a ventilation system that allows the air volume to be renewed more than 20 times in such a way that all the air in the work area can be renewed.

8.2. Exposure controls

HAND PROTECTION

To avoid the risk of indirect burns (due to molten thermoplastic material) hands should be protected with gloves whose material is non-meltable (eg leather).

SKIN CARE

Outdoor work must protect workers from exposure to UV rays. To avoid the risk of indirect burns (due to molten thermoplastic material) hands should be protected with gloves whose material is not meltable (for example, leather).

EYE PROTECTION

Not necessary. In the case of work on white or highly reflective surfaces, sunglasses should be used.

RESPIRATORY PROTECTION

Not necessary, for outdoor work. For indoor work, a respiratory mask with filter type A2 / P3 according to EN 14387 + A1 must be used.

CONTROLS OF ENVIRONMENTAL EXPOSURE.

Emissions from production processes, including those from ventilation devices, should be controlled to ensure respect for environmental protection regulations.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Physical state	Flexible solid
Color	White / gray.
Odor	Some compounds may have an organic smell.
Olfactory Threshold	Not available.
pH	Not available.
Melting point / freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flashpoint.	Not available.
Evaporation rate	Not available.
Flammability of solids and gases	Not available.
Lower flammability limits.	Not available.
Upper flammability limits.	Not available.
Lower explosive limits.	Not available.
Upper explosive limits.	Not available.
Vapor pressure.	Not available.
Vapor density	Not available.
Relative density.	1,300 - 1,600 kg / m3 (25 °C)
Solubility	Soluble with most organic solvents tetrahydrofuran, etc.
Partition coefficient: n-octanol / water	Not available.
Auto-ignition temperature	> 220 °C
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.



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SECTION 10. Stability and reactivity.

10.1. Reactivity.

Under normal conditions of use, there are no particular hazards of reaction with other substances (see point 7).

10.2. Chemical stability

The product is stable under normal conditions of use and storage (see point 7).

10.3 Possibility of dangerous reactions.

Under normal conditions of use and storage, hazardous reactions are not anticipated.

10.4 Conditions to avoid.

None in particular in the case of applying according to its normal use.

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products.

Exposed to high temperatures, the product can generate dangerous decomposition substances such as carbon monoxide and dioxide, fumes and nitrogen oxides.

SECTION 11. Toxicological information.

There are no known episodes of health damage due to exposure to the product. In any case, it is advisable to maneuver respecting the rules of good industrial hygiene.

11.1. Information on toxicological effects.

ACUTE TOXICITY.

LC50 (Inhalation - vapors) of the mixture: None under normal conditions of use.
LC50 (Inhalation - mists / dusts) of the mixture: None under normal conditions of use.
LD50 (Oral) of the mixture: None under normal conditions of use.
LD50 (Dermal) of the mixture: None under normal conditions of use.

CORROSION OR SKIN IRRITATION.

It does not meet the classification criteria for this hazard class.

SERIOUS EYE INJURY OR EYE IRRITATION.

It does not meet the classification criteria for this hazard class.

RESPIRATORY OR CUTANEOUS SENSITIZATION.

It does not meet the classification criteria for this hazard class.

MUTAGENICITY IN GERMINAL CELLS.

It does not meet the classification criteria for this hazard class.

CARCINOGENICITY

It does not meet the classification criteria for this hazard class.

TOXICITY FOR REPRODUCTION.

It does not meet the classification criteria for this hazard class.

SPECIFIC TOXICITY IN CERTAIN ORGANS (STOT) - SINGLE EXPOSURE.

It does not meet the classification criteria for this hazard class.

SPECIFIC TOXICITY IN CERTAIN ORGANS (STOT) - REPEATED EXPOSURE.

It does not meet the classification criteria for this hazard class.

DANGER BY SUCTION.

It does not meet the classification criteria for this hazard class.



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SECTION 12. Ecological information.

Use according to good work practices, avoiding the dispersion of the product in the environment. Warn the competent authorities if the product has come into contact with water courses or if it has contaminated the soil or vegetation.

12.1. Toxicity.

No toxicological effects on the environment were observed and are not known or expected under normal use.

12.2. Persistence and degradability.

Information not available.

12.3. Bioaccumulative potential

Information not available.

12.4. Mobility in the ground.

Information not available.

12.5. Results of PBT and vPvB assessment.

Based on the available data, the product does not contain PBT or vPvB substances in a percentage greater than 0.1%.

12.6. Other adverse effects

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, if possible. Product waste must be considered as special non-hazardous waste. Disposal must be entrusted to an authorized company for the management of garbage, as provided by national and possibly local regulations.

POLLUTED PACKAGING

Contaminated packaging should be sent for recovery or disposal according to national waste management standards.

SECTION 14. Transport information.

The product must not be considered dangerous according to the provisions in force regarding the transport of dangerous goods by road (A.D.R.), rail (RID), sea (IMDG Code) and air (IATA).

14.1. UN number.

Not applicable.

14.2. Official designation of transport of the United Nations.

Not applicable.

14.3. Hazard class (s) for transport.

Not applicable.

14.4. Packing group.

Not applicable.

14.5. Dangers for the environment.

Not applicable.

14.6. Special precautions for users.

Not applicable.



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14.7. Transport in bulk according to Annex II of the MARPOL Convention and the IBC Code.

Information not relevant.

SECTION 15. Regulatory information.

15.1. Regulations and legislation on safety, health and environment specific to the substance or mixture.

Seveso Category - Directive 2012/18 / CE:

Restrictions related to the product or substances contained according to Annex XVII Regulation (EC) 1907/2006.
Any.

Substances in Candidate List (Art. 59 REACH).

Based on the available data, the product does not contain SVHC substances in a percentage greater than 0.1%.

Substances subject to authorization (Annex XIV REACH).

Any.

Substances subject to export notification obligation Reg. (EC) 649/2012:

Any.

Substances subject to the Rotterdam Convention:

Any.

Substances subject to the Stockholm Convention:

Any.

Sanitary controls

Information not available.

Classification of pollutants for water in Germany (VwVwS 2005).

WGK 1: Little dangerous for the waters.

15.2. Chemical safety assessment.

A chemical safety assessment has not been prepared for the mixture and the substances contained therein.

SECTION 16. Other information.

LEGEND:

- ADR: European agreement for the transport of dangerous goods by road
- CAS NUMBER: Chemical Abstract Service Number
- EC50: Concentration that has an effect on 50% of the population tested
- CE NUMBER: Identification number in ESIS (European archive of existing substances)
- CLP: Regulation EC 1272/2008
- DNEL: Derived level without effect
- EmS: Emergency Schedule
- GHS: Global Harmonized System for Classification and Labeling of Chemicals
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: 50% immobilization concentration of the population under test
- IMDG: International maritime code for the transport of dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in Annex VI of the CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Foreseeable environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predictable concentration without effects
- REACH: Regulation EC 1907/2006
- RID: Regulations for the international transport of dangerous goods by rail
- TLV: Threshold Limit Value
- TLV MAXIMUM VALUE: Concentration that must not be exceeded at any time during the occupational exposure.
- TWA STEL: Short term exposure limit



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- TWA: Weighted average exposure limit
- VOC: Volatile Organic Compound
- vPvB: Very persistent and very bioaccumulative according to REACH
- WGK: Wassergefährdungsklassen (Deutschland).

GENERAL BIBLIOGRAPHY:

1. Regulation (EU) 1907/2006 of the European Parliament (REACH)
 2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
 3. Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
 6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
 7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
 8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
 9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - NEITHER. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - ECHA Agency website

User Note:

The information contained in this sheet is based on the knowledge available to date of the latest version. The user must ascertain the suitability and completeness of the information regarding the specific use of the product. This document should not be construed as a guarantee of any specific property of the product. Given that the use of the product cannot be directly controlled by us, it will be the user's obligation to respect, under their responsibility, the laws and regulations in force regarding hygiene and safety. No responsibilities are assumed for improper use. Provide adequate training to personnel responsible for the use of chemical products.