

SAFETY DATA SHEET NAVAL PROTEK

Effective date: January 2019

SECTION 1: IDENTIFICATION OF THE CHEMICAL AND THE SUPPLIER

Mixing name	NAVAL TOTAL
Manufacturer	: Arecorp Spa
Use of the product	: Surface protective sealant paint
Address in Chile	: Agustinas #1161 Oficina 214, Santiago Centro, Chile
Phone	: +54 91140903783
Emergency phone in Chile	: CITUC (Chemical emergencies) 247 3600 CITUC (Toxicological emergencies) 635 3800
e-mail	: info@argecorp.com
Supplier	: MAK CHEM International Limited
Address in United Kingdom	: 2 Brewery Court, High Street, Theale RG7 5AH, U.K.
Phone / E-mail	: +44 (0) 7464 325169 / david@mak-global.org

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

S.2.2 Case the mix

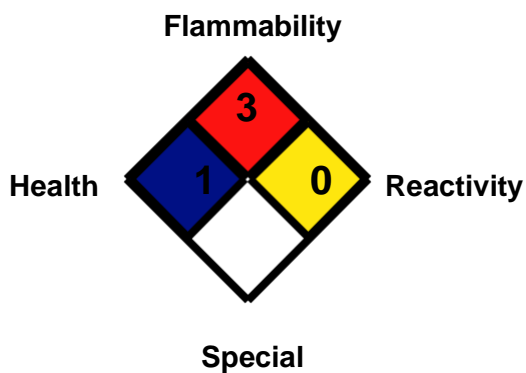
a) Main components of the mixture	: Polyurethane paint Pre-polymer, Xylene
b) Components that contribute to the risk - chemical name	: Xylene
- concentration	: 15%-35%
- number NU	: 1307

SECTION 3: HAZARDS IDENTIFICATION

Brand on label NCh2190 : Flammable liquid class 3

Risk index

0: Negligible
1: Mild
2: Moderate
3: High
4: Extreme



NCh1411/4 (NFPA 704)



NCh2190 of 2003

SAFETY DATA SHEET NAVAL PROTEK

Classification of risks of the chemical	: Flammable liquid class 3.
a) Risks to the health of people	: For the amount of the product contained no effects are expected for an overexposure. An overexposure to high concentrations could have harmful effects by inhalation.
Effects of acute overexposure (for once).	: Irritating to the skin and respiratory tract, can cause headache, vertigo and nausea.
Inhalation	: This product is dangerous if it is breathed. It can cause allergic skin irritation.
Skin contact	: Skin is slightly irritant, therefore, a repetitive or prolonged contact can generate dry skin and can cause dermatitis.
Eye contact	: May cause severe irritation, redness, tearing and swelling, see a doctor.
Ingestion	: A massive ingestion of the product can irritate the gastrointestinal tract causing vomiting. When the liquid is ingested or vomited, it can enter directly into the lungs by aspiration, which should be avoided. Do not induce vomiting.
Effects of chronic overexposure (long term)	: Excessive, repeated or prolonged exposure can cause disorders of the respiratory system (allergic sensitization, injury to the lungs), skin disorders (allergic sensitization, dermatitis). In confined spaces it can cause damage to the kidneys and metabolism.
Medical conditions that will be aggravated with Exposure to the product	: People with a propensity for allergies should not be exposed to the product, as are people with frequent conditions of the lung.
b) Dangers for the environment	: A simultaneous accidental spillage of the product (approximately 20 containers), may present an indirect risk in the aquatic environment by generating a reduction in oxygen.
c) Risks of a physical-chemical nature	: No information available.
d) Specific risks of the substance	: The greatest danger is its flammability, keep away from the flames.
Other data	: No information available.

SECTION 4: FIRST AID MEASURES

In case of accidental contact with the product, proceed in accordance with:

Inhalation	: Mobilize the affected person outdoors. In case of not breathing, provide artificial respiration. If breathing is difficult, provide oxygen. Loosen everything that might be tight, such as a shirt collar, a tie, a belt. Ask for medical attention.
Ingestion	: Transport the person outdoors. Do not induce vomiting. Do not give anything by mouth. Call or go immediately to the doctor.

SAFETY DATA SHEET NAVAL PROTEK

Skin contact	: Wash contaminated skin with plenty of water. Take off the contaminated clothes and shoes.
Eye contact	: Immediately rinse eyes with plenty of water for at least 15 minutes. Lifting the upper and lower eyelids. Consult a doctor. It can cause moderate irritation in the eyes.
Notes for the treating doctor	: No information available.

SECTION 5: FIRE-FIGHTING MEASURES

Specific risks	: Some components of the product have a very low ignition point, therefore it is recommended to avoid the displacement of the vapors towards the fire zone. The use of water to fight fire can be ineffective.
Hazardous combustion products	: Carbon dioxide (CO ₂) that can act as a suffocating gas. In incomplete combustion, it generates carbon monoxide (CO), which is highly toxic if inhaled.
Extinction agents	: Foam, chemical powder, carbon dioxide (CO ₂).
Special procedures to fight fire	: Evacuate the danger area. Use a recommended extinguishing agent.
Special protective equipment for action in fires	: Wear full protective clothing and self-contained breathing apparatus approved by NIOSH with positive pressure mask, helmet with visor and safety shoes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency measures to be taken if there is a spill	: Contain and cover the spill with wet earth or sand, collect all the waste in a container for disposal in accordance with the environmental regulations in force. Only after the area has been completely cleaned can the return to work of the material be authorized.
Personal protective equipment and elements to attack the emergency	: Wear self-contained breathing apparatus, full chemical protection suit. Avoid unnecessary contact with the product.
Personal precautions	: Evacuate the area if necessary, in order to prevent any fire. Ventilate the spill or leak area. Wear personal protective equipment. Do not touch or walk through spilled material. Dilution with water can cause contamination because it can drain into water-courses and sewage.
Precautions to be taken to avoid damage to the environment	: Dilution with water can cause contamination because it can drain into water courses and sewage, FOR NO REASON DOWNLOAD SEWER OR WATER COURSES.
Cleaning methods (Recovery - Neutralization)	: Ventilate the spill or leak area. Wear personal protective equipment. Contain by absorbing them with inert material (wet sand, earth), and dispose of them in suitable containers of chemical waste. Do not use combustible substances such as sawdust.

SAFETY DATA SHEET NAVAL PROTEK

Waste disposal methods	: Deposit the spilled product in a container for disposal according to current environmental regulations.
Prevention notes of secondary risks	: Because the vapors of the product are heavier than air, they disperse at ground level, accumulating in confined spaces or low areas.

SECTION 7: HANDLING AND STORAGE

S.7.1 Handling

Technical measures (Recommendations)	: It must be applied in open spaces with good ventilation, in cases of confined spaces it is necessary to implement forced ventilation. Static electricity can build up and create a fire hazard, so equipment must be grounded.
Precautions to take	: Eating, drinking or smoking should be prohibited in the places where this product is handled, stored or treated.
Recommendations on safe handling specific	: Avoid contact with eyes, skin and clothing. Use protective goggles, nitrile gloves, work overalls and half-face respirator with organic vapor filters (type 3 M).

S.7.2 Storage

Technical measures	: The containers must be kept closed, not hit or damaged.
Storage conditions	: Keep the container tightly closed in its original container, keep it in a place with adequate ventilation for a longer duration of the product. Do not smoke in storage areas.
Storage conditions	: Plastic or metallic containers with coating.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Measures to reduce the possibility of exposure	: Apply the product in open spaces or with forced ventilation if the situation requires.
Parameters for control	Hemogram and kidney function tests.
Permissible Weighted Limits (L.P.P.)	: (LPP) 0.004 ppm; 0.03 mg / m ³
Absolute (LPA)	: (LPT) 0.02 ppm; 0.14 mg / m ³
Temporary (L.P.T.)	: (LPA) No information available
Odor threshold	: No information available
Biological standards	: No information available
Permissible radioactive limits	: Does not apply
Respiratory protection	: Use half face respirator with organic vapor filters (type 3M).
Eye / face protection	: Use chemical protection glasses to avoid splashing.

SAFETY DATA SHEET NAVAL PROTEK

Personal protection for hands	: Wear nitrile or neoprene gloves.
Personal protection for body / skin	: Wear appropriate protective clothing such as PVC apron or work overalls.
Personal protection for feet	: Wear safety shoes or rubber boots to avoid splashing.
Hygiene measures, ventilation	: Apply the product in open spaces, in cases of confined spaces you must maintain forced ventilation.
Special precautions.	: Apply the product in open spaces for more ventilation, in cases of confined spaces you must maintain forced ventilation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Viscous liquid
How it is presented	: Viscous liquid at 22° C
Molecular weight	: No information available
Smell	: A solvent
Color	: Translucent to ocher
pH	: Does not apply
Concentration	: Not applicable
Specific temperatures and / or temperature ranges	: No information available
Decomposition temperature	: No information available
Melting temperature	: No information available
Boiling temperature	: >200°C
Critical temperature	: No information available
Autoignition temperature	: 493°C
Flash point	: >130°C
Freezing point	: No information available
Flammability limits	: No information available (see technical report No. 06)
Explosive properties	: No information available
Fire or explosion hazards	: No information available
Flame propagation speed	: No information available
Relative vapor density at 20 ° C	: Not applicable
Relative density of the liquid	: 1.0 to 1.3 at 25 ° C
Solubility in water and other solvents (mg / l)	: Not soluble (reaction occurs releasing CO2)
Partition coefficient Octanol / Water	: No information available
Steam pressure at 20°C	: 0.03 mbar
Flammability range (% of air volume)	: No information available
Type or class of radioactivity	: Not Applicable
Radioactivity ranges	: Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability	: Stable under normal conditions
Risk reactions	: No information
Conditions to avoid	: Avoid flames and contact with products that have active hydrogen; alcohols and acids. Incompatibility (materials to avoid): Avoid contact with strong acids / oxidants, water, acids and bases.

SAFETY DATA SHEET NAVAL PROTEK

Hazardous decomposition products	: Does not decompose.
Hazardous combustion products	: May emit acrid fumes of aldehydes and cyanates along with carbon monoxide and carbon dioxide.
Hazardous Polymerization	: Does not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Short-term toxicity (acute or severe)	: LD50 Oral (Rats) 4130 mg / kg.
Long-term toxicity (chronic)	: It produces lung diseases that can be chronic.
Local or systemic effects	: Probable to generate effects on the metabolism and kidneys and liver in case of prolonged to high contact concentrations.
Allergenic sensitization	: Irritation of the eyes and dryness of the skin.
Specific effects	: Irritation, cough, nausea.
Scientific experiments	: No information available.
Other information	: No information available.

SECTION 12: ECOLOGICAL INFORMATION

Instability normal storage.	: The product is stable under conditions
Persistence / Degradability	: No information available.
Bio-acumulation	: It does not occur.
Effects on the environment	: Only in case of large spills can it be toxic to aquatic species and to soil microorganisms.
Scientific experiments	: No information available.
Other information	: No information available.

SECTION 13: FINAL DISPOSAL CONSIDERATIONS

Final disposition of the substance, waste and / or waste: It must be disposed in disposal facilities authorized by the Sanitary Authority, which must comply with the provisions of Supreme Decree No. 148 Sanitary regulations on solid waste management.


Elimination of contaminated containers and packaging: The elimination of this product must be in disposal facilities authorized by the Health Authority, which must comply with the provisions of Supreme Decree No. 148 Sanitary regulations on solid waste management.




SAFETY DATA SHEET NAVAL PROTEK

SECTION 14: TRANSPORTATION INFORMATION

14.1 Land transport

Proper name for transportation	: Xylenes	
No. UN / ID	: 1307	
Hazard class	: 3	
Packing group	: III	
Risk code	: 33	
Limited and excepted quantity	: ADR: 5L / E1	R. 195/97: 333 kg

14.2 Air transport (ICAO / IATA)

Appropriate name for boarding	: Xylenes	
No. UN / ID	: 1307	
Hazard class	: 3	
Packing group	: III	
Instructions for passenger and cargo planes	: Y344, 10L / 355, 60L	
Instructions for cargo planes	: 366, 220L	
CRE	: 3L	
Special provisions	: A3	

14.3 Maritime transport (IMO)

Transport in packaging according to the IMDG Code

Proper name for transportation	: Xylenes	
No. UN / ID	: 1307	
Hazard class	: 3	
Packing group	: 3	
EMS	: F-E; S-D	
Stowage and segregation	: Category A	
Marine pollutant	: DO NOT	
Name of transport documentation	: UN 1307; XYLENES; 3; II	



SECTION 15: CURRENT REGULATIONS

Applicable international standards	: IATA, IMO, IMDG.
Applicable national standards	: D.S.198; D.S.78; D.S.; NCh 382; NCh 2190
Brand on label	: Class 3.1 Flammable liquid NCh 2190

SECTION 16: OTHER INFORMATION

The data included in this Safety Data Sheet were obtained from reliable sources, however, it is delivered without express or implicit guarantee regarding the accuracy or correction. The information that is delivered in it is currently known about the subject.

Considering that the use of this information and products is beyond the control of the supplier, the company assumes no responsibility for this concept. Determine the conditions of safe use of the product.

Once opened, the product must be used in its entirety. Do not use in confined spaces without the established safety measures.

It is unlikely that under the conditions of habitual use of the product, acute effects occur. It would only be possible in a special situation where it is used in massive quantities and that the protection systems recommended by the manufacturer are not available.