

1. Material / description of manufacturing process and company description			
1.1 Trading name:	BRANOtect Alll		
1.2 Product use:	Corrosion protection agent		
1.3 Manufacturer/Supplier:	Branopac GmbH Gottlieb-Daimler-Strasse 18-20 D-35423 Lich, Germany Tel.: +49 6404 9142-0 // Fax.: +49 6404 9142-700 info@branopac.de		
1.4 Local contact information:	Laboratory, Dr. Kroll, tel.: +49 6404 9142-711		
2. Possible hazards			
2.1 Classification:	Xn- Harmful to health.		
2.2 Particular hazards for people and environment:	R 65: Harmful: may cause lung damage if swallowed. R 66: Repeated exposure may cause skin dryness or cracking.		
3. Composition / Information on ingredients			
3.1 Chemical characteristics of preparation:			
EC No.:	CAS No.:	Description:	Contents:
265-150-3	64742-48-9	Naphtha (crude oil), heavy, hydrogen-treated; Naphtha, hydrogen-treated, low boiling point Xn R65-66 [acc. to manufacturer's data, the mineral oil is <u>not</u> classified as carcinogenous because of P note in the materials list (< 0.1% benzol)]	60-70 %
265-155-0	64742-52-5	Destillate (crude oil), heavy, containing naphtha, hydrogen-treated; crude oil - unspecified [According to the manufacturer, the mineral oil is <u>not</u> classified as carcinogenic on account of note L in the material list (< 3% DMSO extract)]	20-25 %
203-905-0	111-76-2	2-Butoxyethanol Xn, R20/21/22-36/38 (at conc. > 20%) Xn, R20/21/22 (at 12,5< conc. < 20%)	approx. 2%
3.2 General description:	Mineral oil-based corrosion protection agent, with petroleum distillates.		
4. First-aid measures			
4.1 Exposure:	Measures:		
General information:	None		
Inhalation:	Vapours: Fresh air / spray: Contact a physician.		
Skin contact:	Wash with soap and water. Remove soiled clothing.		
Eye contact:	Rinse with copious amounts of water.		
Ingestion:	Contact a physician. Prevent vomiting.		
4.2 Information for physician:	After aspiration of mineral oil products (inhalation of sprays, vomiting of swallowed product), danger of pneumonia.		

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Trading name:		BRANOtect AIII
5. Fire-fighting measures		
5.1 Extinguishing media:		
Suitable:	Dry extinguishing, foam, water spray jet.	
Not suitable for use:	Strong water jet.	
5.2 Hazards arising from the substance, preparation, combustion products or resulting gases:		
If insufficiently combusted, primarily crack products.		
5.3 Special protection equipment for fire-fighting:		
-		
6. Accidental release measures:		
6.1 Personal precautions:		
Always ventilate affected rooms well. Avoid skin contact.		
6.2 Environmental precautions:		
Prevent ingress into sewerage, soil and waterways.		
6.3 Measures for cleaning up / taking up:		
Check and capture using:	oil-binding materials.	
Do not use under any circumstances:	Not relevant.	
Neutralise using:	Not relevant.	
7. Handling and storage:		
7.1 Handling:		
Safe handling:	If a reaction is possible during open handling, wear protective goggles, protective clothing and safety gloves.	
Fire and explosion protection:	Keep away from sources of ignition, do not smoke. Fire classification according to DIN EN 2: B	
7.2 Storage:		
Storage rooms and containers:	Original container.	
Storage instructions:	-	
Storage requirements:	Store in a cool and dry place in original packaging.	
VCI storage class:	10 (Combustible fluids)	
8. Exposure limitation and personal protective equipment		
8.1 Exposure limits:		
This product is a complex combination and contains the following components with official or recommended workplace limit value:		
AGW value:	2-Butoxyethanol:	10 ppm (49 mg/m ³); overflow factor 4(II); H, Y, TRGS 900
	hydrocarbon mixture:	1200 mg/m ³ , peak limit (II), RCP-TRGS 900
8.2 Technical measures:		
If necessary, extraction of spray.		
8.3 Personal protection equipment:		
Respiratory protection:	Not necessary if room is well-ventilated.	
Eye protection:	If an impact is possible during open handling, wear protective goggles.	
Protective gloves:	According to TRGS 615 during handling with anticorrosion components it is recommended to wear suitable gloves. For longer handling, benzene-proof gloves. (Nitrile protective gloves).	
Safety clothing:	Recommended.	
Safety and hygiene measures:	Standard measures for handling chemicals.	

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Trading name:		BRANOtect AIII		
9. Physical and chemical characteristics:				
9.1 Appearance				
Physical state:	Thin liquid			
Colour:	Light brown			
9.2 Odour:				
	Benzine-like			
	Value/Range:	Unit:	Method:	
9.3 pH value:	6- 7			
9.4 Constitutional change:				
Boiling point/range	From 180	°C		
Melting point/range:	< -20	°C	DIN ISO 3016	
9.5 Flash point:	61	°C	DIN EN 22 719	
9.6 Explosion hazard:				
	Can form explosive mixtures if mixed with air			
	Explosion limits in air: Approx. 0.6 – 7.0	vol. %	(benzine component)	
9.7 Explosibility limit:	No data available			
9.8 Inflammation point:	240	°C		
9.9 Vapour pressure:	No data available			
9.10 Density:	0.82	g/cm ³	at 20 °C	
9.11 Solubility in water:	Insoluble			
9.12 Other specifications:	-			
10. Reactivity and stability:				
10.1 Conditions to be avoided:				
	Do not warm up the product or apply it to hot parts.			
10.2 Materials to be avoided:				
	Strong oxidation agents.			
10.3 Hazardous decomposition products:				
	None if used in accordance with instructions.			
11. Toxicological specifications:				
The following tests were carried out by the manufacturer using data available for the components: acute toxicity, skin irritation, irritation of mucous membranes, potential for altering genetic make-up and skin sensitivity to the product. Full data could not be found for all components. Based on the experience of the manufacturer, however, no hazards over and above those stated here are to be expected.				
11.1 Acute toxicity:				
	Based on its composition, no toxic effect to be expected with proper handling. Steam concentrations above the AGW value causes irritation of the eyes and respiratory tracts. They can also cause headaches, dizziness and faults in central nervous system.			
11.2 Irritant effects:				
	As yet none known. Can dry out skin through repeated or prolonged contact.			
11.3 Sensitisation:				
	As yet none known.			

Trading name:	BRANOtect AIII
12. Ecological information:	
12.1 Ecotoxicity:	No data available
12.2 Mobility:	No data available
12.3 Persistence and degradation:	No data available
12.4 Bioaccumulation potential:	No data available
12.5 Other adverse effects:	No data available
12.6 Other:	Mineral oil product: do not allow to enter environment freely.
13. Disposal considerations:	
13.1 Product recommendation:	
EWC: 14 06 03 (solvent and solvent mixes)	
The European Waste Catalogue is structured according to origin. The final waste classification must be assigned according to the specific industry and user. If contamination can result from the use of this preparation, a new classification may be required.	
Hazardous waste according to the German Waste Disposal Law.	
13.2 Empty non-cleaned packaging (recommendation):	
EWC: 15 01 10 (packaging containing residues of dangerous materials or which are soiled by dangerous materials)	
14. Transport specifications:	
14.1 ADR/RID transport:	
ADR/RID-GGVS/-E class:	3
Packaging group:	III
UN no.:	1268
Description:	CRUDE OIL PRODUCT, N.O.S
Limit quantity acc. to 1.1.3.6 ADR	1000kg
Classification code:	F1
Hazard label	3
14.2 Sea transport IMDG/GGV Sea Transport:	
IMDG-GGV Sea class:	3
Packaging group:	III
UN no.:	1268
EMS no.:	F-E, S-E
Technical description:	PETROLEUM PRODUCTS, N.O.S
14.3 Air transport ICAO-TI and IATA-DGR:	
ICAO/IATA class:	3
Packaging group:	III
UN- ID- NO.:	1268
Correct shipping designation:	PETROLEUM PRODUCTS, N.O.S

Trading name:	BRANOtect AIII
15. Regulatory information:	
Hazardous substance Directive / Guideline 1999/45/EC	
Warning symbol / classification:	Xn Harmful to health
R-phrases:	R 65: Harmful: may cause lung damage if swallowed. R 66: Repeated exposure may cause skin dryness or cracking.
S-phrases:	S 23: Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). S 24: Avoid contact with skin. S 62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
National regulations (Germany):	
Restrictions for use:	Not relevant.
Accident regulations:	Not relevant.
Technical instructions, air:	Not relevant.
Water hazard class:	1 (according to appendix 4 VwVwS)
TRGS 615	Branotect AIII has no restrictions in usage.
16. Other information:	
Text of any hazard symbol and R-phrases referred to under point 2: R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R36/38 Irritating to eyes and skin.	
BRANOtect AIII was classified according to Dangerous Preparations Directive using the list of hazardous substances and appendix I of EC Directive 67/548/EEC and the specifications provided by the supplier according to the method of analysis.	
Amendments to the previous version are indicated by a line in the margin.	

The information provided here refers exclusively to the safety requirements of the product and, to the best of our knowledge, is based on the most current information. The specifications given here do not provide a guarantee or represent a liability in relation to specific product properties and are therefore not binding.