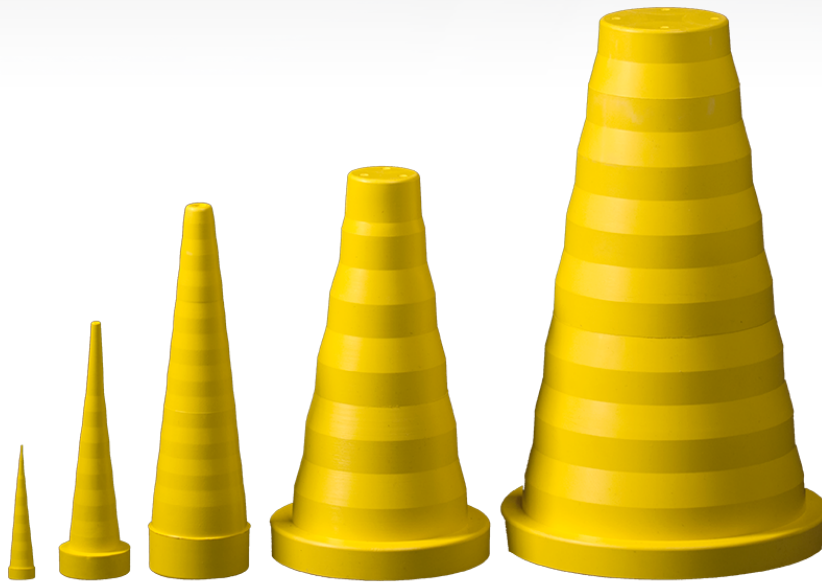


YELLOC

PREVENTS SPILLAGE - STOPS LEAKAGE

YELLOC MSDS

MATERIAL SAFETY DATA SHEET



Material Safety Data Sheet
Service plugs for Environmental
protection from Yelloc AB

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Date	Version	Description of change	Issuer
01.10.2010	1.0	Established on the basis of the supplier's Material Safety Data Sheet	Thomas Gradin
01.04.2013	2.0	Updated on the basis of the supplier's specification mixing	Thomas Gradin
05.08.2013	3.0	Updated according to http://kemi.se/Documents/Publikationer/Trycksaker/Faktablad/FbSakerhetsdatabladMars11.pdf (Printed matter/Fact sheets/Fb safety data sheet March 11)	Thomas Gradin
18.03.2014	4.0	Updated into English by Technical Translation Agency GmbH	Thomas Gradin

Material Safety Data Sheet
Service plugs for Environmental
protection from Yelloc AB

SUMMARY

Working name of the company: Yelloc AB

Product: YELLOC® Service plug

Description of the product:

YELLOC® is the environmentally protection system of professional tools designed to minimize oil and chemical spill. The application area is primary to prevent spill from hoses and machines into nature and helps to keep working areas clean.

YELLOC® service plugs resists hydraulic oil and in vehicles normally appearing oils and chemicals. YELLOC® service plugs covers a wide range of hole dimensions and are very easy to use. No tools required. The Yelloc Service Plugs conical shape effectively plugs leaks in hoses and ducts in the case of fracture and repairs under many different conditions.

The YELLOC® Environmental Plug is a solid plug manufactured from high quality, oil resistant rubber, and may also be used to stores oils or chemicals in a system, for example whilst a repair is being carried out.

The YELLOC® Environmental Plug may also be used to protect sensitive ducts in a machine part during commissioning so that dirt, moisture and contaminants do not penetrate sensitive components and cause damage.

The YELLOC® Environmental Plug is also used during cleaning, painting and blasting to prevent paint, blasting gravel, chemicals and dirt from penetrating systems and components. If the plug bottoms it can be advantageously cut, thus rendering the YELLOC® Environmental Plug solid.

- Professional tool for industrial use that minimises spillage and saves money.
- Store out of reach of children.
- Only for pressureless/ none pressurised systems and low pressure vacuum systems.
- Always clean the plugs before re-use.
- Use: no tools are required. Insert, push, push and twist at the same time.
- Temperature range: -25° C - +90° C
- Dimensions: MICRO 1-10 mm, STD 5-22 mm, XL 13-42 mm
- Does not contain silicon.
- Always leave sufficient material outside the hole so that the plug can be removed easily after the work is carried out.

YELLOC

Material Safety Data Sheet
Service plugs for Environmental
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YELLOC

Prevents spill
Protects the environment
Saves money

Service
Plugg

PLUG

XL 13-42 mm
STD 5-22 mm
MICRO 1-10 mm

NO SPILL
www.yelloc.com

Production: MESSIA, UPM 2012

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THE NAME OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

GENERAL

Bought in by the Form Gummi Group and manufactured for use by Trelleborg Industri AB

COMMERCIAL NAME:

Service plug 0003910

ARTICLE TYPE:

Intermediate for the production of rubber products

SCOPE:

Environmentally protection system of professional tools designed to minimize oil and chemical spill. The application area is primary to prevent spill from hoses and machines into nature and helps to keep working areas clean. Yelloc Service plugs is primary used during maintenance work in the servicing and repair area of none-pressurised systems.

SUPPLIER Yelloc AB

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Kemiakuten (Chemical Industries Emergency Response Centre: +46 (0)20 99 60 00 (00.00-24.00 CET)
+46 (0)410-51741 (08.00-17.00 CET)

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1. HAZARDOUS PROPERTIES

INFORMATION ON HAZARDOUS PROPERTIES

N.B. Classification and risk phrases do not apply to vulcanised rubber products.

See also Section 15. For industrial use only.

Fire risk when heating to temperatures of over 250 ° C. See also Sections 3 and 9.

2. COMPOSITION/INFORMATION ON COMPONENTS

No	Name of substance	EC no.	CAS no.	Conc. (% by weight)	Risk symbol	R-phrased	Other
1	Dibenzothiazyl disulphide	204-424-9	120-78-5	0.6%	N,Xi	31, 43,50/53	-
2	TITANIUM DIOXIDE	236-675-5	13463-67-7	3-4%	-	-	H
3	Zinc oxide	215-222-5	1314-13-2	4-5%	N	50/53	H

Explanation of symbols:

Risk symbol;: T+=Highly toxic, T=Toxic, C=Corrosive, Xn=Hazardous to health, Xi=Irritating, E=Explosive, O=Oxidising, F+=Extremely flammable, F=Highly flammable, N=Environmentally hazardous.

Other: "H" National Limit Values.

R-phrased: R31 – Develops toxic gas on contact with oxygen, R43 – may give rise to allergy on skin contact, R50/53 – Highly toxic to aquatic organisms, may cause harmful long-term effects in the aquatic environment.

INFORMATION:

The Form Gummi Group's use of chemical substances in 3910-D.

The Form Gummi Group has examined Hydrosand AB's lists HS Yellow and HS Red and has none of the substances indicated in these lists in our material 3910-D. ZnO is present in the mixture in a concentration of approx. 4.5% by weight and may contain traces of lead and cadmium. The Form Gummi Group uses ZnO with the lowest possible content of these 2 substances according to the guidelines for the company.

3. FIRST AID MEASURES

GENERAL

Show this safety data sheet or the supplier's safety data sheet to the duty doctor.

INHALATION

Immediately move the person into the fresh air if he/she has inhaled reaction gases as a result of overheating or combustion of the product.

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SKIN CONTACT

Cool down the molten product with plenty of water. Do not remove solidified product. Consult a doctor in serious cases.

CONTACT WITH EYES

Remove the person into the fresh air in the case of exposure to reaction gases. Overheating or combustion of the product gives rise to irritating flue gases.

SWALLOWING

Rinse the mouth. Do NOT induce vomiting. Contact a doctor immediately.

4. FIREFIGHTING MEASURES

SPECIAL RISKS

Avoid inhaling flue gases because combustion gives rise to irritating flue gases.

Do not apply a powerful water jet as this may spread and extend the fire.

SUITABLE FIRE EXTINGUISHING AGENTS

Water, foam and powder

SPECIAL PROTECTIVE EQUIPMENT IN CASE OF FIRE

In the case of fire use compressed air apparatus as breathing protection, regardless of the environment.

5. MEASURES TO BE TAKEN IN THE CASE OF ACCIDENTAL EMISSIONS

MEASURES TO BE TAKEN IN THE CASE OF ACCIDENTAL EMISSIONS

Sweep or vacuum up spillage and collect it in a suitable container for waste handling. See Section 13.

MEASURES FOR AVOIDING ENVIRONMENTAL DAMAGE

Follow the instructions in the product description.

6. HANDLING AND STORAGE

PREVENTIVE MEASURES

No special technical protective measures are required. Provide sufficient air exchange and/or extraction in the working premises. Wash hands on breaks and after work. Take normal precautions when handling vulcanised rubber product.

HANDLING INSTRUCTIONS DURING USE

No special instructions. Handle in accordance with good industrial hygiene and safety practice. Breathing protection, eye protection and hand protection for vulcanised rubber product are not normally required.

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protection from Yelloc AB

STORAGE

Shall not be mixed/stored with strong bases, oxidants and strong acids. Store in the sealed packaging intended for it. Store in a cool place and protect from exposure to direct sunlight.

7. LIMITATION OF EXPOSURE/PERSONAL PROTECTION

PERSONAL PROTECTION

Use safety gloves. Ensure that there is good ventilation. Prevent the specified hygiene limit values from being exceeded. Avoid proximity to heat sources and fire. Wash hands before breaks and after work, and take normal precautions. Do not inhale vapours or dust.

NATIONAL HYGIENE LIMIT VALUES

CAS no.	EC-no.	Limit values for exposure ppm/mg/m3		Ceiling limit value ppm/mg/m3		Short-term limit values ppm/mg/m3		Country
1314-13-2	-	-	5	-	-	-	-	SE
13463-67-7	-	-	5	-	-	-	-	SE

8. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solid Conical NBR Rubber	Viscosity	Not applicable
Colour/End product	Yellow	Explosive properties	Not applicable
Odour	Vulcanised rubber product	Distribution coefficient	Not applicable
Steam pressure	Not applicable	Evaporation rate	Not applicable
Steam density	Not applicable	Oxidation (solid)	Not applicable
pH solution	Not applicable	Solubility in water	Not applicable
Boiling point	Not applicable	Flammability (solid)	Not applicable
Density:	1.22 Mg / m3 (ISO 2781)	Flash point	250 ° C
Hardness: (ASTM D 2240)	56 SHORE A	Wear: (ISO 34-1)	23.6 kN/m
Elongation at rupture: (ISO 37)	638%	Tensile strength: (ISO 37)	3.9 MPa
Setting: at 70°C for 24h (ISO 815)	34.2%	Brittle point: (ISO 815)	-24 ° C
Ageing in air at 72 h / 70 °C (ISO 188)	Hardness 2° IRHD Tensile strength -10,8% Extensibility -12.1%	Ageing in liquid SIS B 72 h/23°C (ISO 187)	Weight 9.9% Volume 19,2% Hardness -16 °
Ozone resistance at 40°C / 50 pphm (ISO 1431/1)	9.2%	Ageing in liquid IRM 901 72 h/100 °C	Weight -8.7% Volume -9.8% Hardness 9 °
-	-	Ageing in liquid IRM 903 72 h/100 °C (ISO1817)	Weight -3.8% Volume -2.6% Hardness 1 °

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9. STABILITY AND REACTIVITY

STABILITY

No special stability measures. Stable under the recommended storage conditions.

Materials to be avoided

Oxidants. Store away from sources of ignition.

10. TOXICOLOGICAL INFORMATION

Toxicity on swallowing

1314-13-2:

Symptom: Irritating

LD50/oral/rat = >5000 mg/kg

13463-67-7:

Symptom: No known effect

LD50/oral/rat = > 1000000 mg/kg

120-78-5:

Symptom: No known effect

LD50/oral/rat = 5000 mg/kg

Toxicity on skin contact

1314-13-2:

Symptom: Irritating

13463-67-7:

Symptom: No known effect

120-78-5:

Symptom: Irritating

LD50/dermal/rabbit = > 7940 mg/kg

Toxicity on inhalation

1314-13-2:

Symptom: Irritating

LC50/inhalation/4h/rat = 0.4 mg/dl

13463-67-7:

Symptom: Hazardous to health

120-78-5:

Symptom: Irritating

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Toxicity on eye contact	1314-13-2: Symptom: Irritating
	13463-67-7: Symptom: No known effect
	120-78-5: Symptom: Irritating

11. ECOLOGICAL INFORMATION

Acute toxicity	1314-13-2: LC50/96h/Fish = 1.1 mg/l (Oncorhynchus mykiss) EC50/48h/Daphnia = 1000 mg/l (D. magna)
	120-78-5: LC50/96h/Fish = 1000 mg/l (Pimephales promelas) EC50/48h/Daphnia = 2.52 mg/l (D. magna) IC50/72h/Algae = 0.6 mg/l (Selenastrum capricornutum)
Bioaccumulation	120-78-5: log Pow = 4.5 Bioconcentration factor (BCF) = 26.2
Degradation / Conversion	120-78-5: Biodegradability = 0.8% (14d)
Other information	No data are available on the product itself.

12. WASTE HANDLING

GENERAL

No known or expected environmental problems if the vulcanised product is handled correctly.
Handle waste according to local regulations. Vulcanised synthetic rubber product. Packing can be recycled as normal polyethylene waste.

WASTE CODE (EWC)

070200 – Waste from the production, formulation, distribution and use of plastic, synthetic rubber and artificial fibre.

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13. TRANSPORT INFORMATION

TRANSPORT INFORMATION:

Transported in the packaging intended for the product, protect from exposure to direct sunlight.

CLASSIFIED AS HAZARDOUS GOODS ACCORDING TO TRANSPORT REGULATIONS:

No

14. APPLICABLE REGULATIONS

OTHER APPLICABLE REGULATIONS:

The product is classified and marked according to an EC directive or respective national legislation.

15. OTHER INFORMATION

INFORMATION SOURCES:

Yelloc AB

Rubber suppliers "Safety data sheet for rubber" and "Specification Rubber Compound" (Test report).

Yelloc AB NOTES

The information in this Safety Data Sheet is based on our information and as far as we know it was correct on the date scheduled for revision. The information is only intended as a guide for safe handling, use, processing, storage, transport, waste handling and emission, and should not be considered a guarantee or quality specification since it is being developed and improved on a continuing basis. This safety data sheet includes certain information from the manufacturer's safety data sheet from 15.02.2011 and the Specification for Rubber Mixing from 25.03.2013, where the product information was issued according to Swedish legislation. Since Yelloc AB does not in most cases have an insight into the composition of the rubber, the information may prove an obstruction to the manufacturer and prevent the applicable regulations and special Swedish regulations from being complied with. The rubber manufacture Safety Data Sheet and Specification for Rubber Mixing are issued on demand and if so requested. The original Material Safety Data Sheet Yelloc AB Service plugs has been translated from Swedish into English by an independent Technical Translation Agency.

ISSUED: 01.10.2012 and updated on 01.04.2013 and 05.08.2013.